

P R O S P E C T U S

SCALE SALE

ASHLAND RESOURCE AREA
JACKSON MASTER UNIT

Medford Sale # ORM06-TS-2025.0008
September 25, 2025

CHOPPER STYX (5900) Jackson County, O&C

BID DEPOSIT REQUIRED: \$8,600.00

All timber designated for cutting in:

NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 5; SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 7; SW $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec 8; S $\frac{1}{2}$ SW $\frac{1}{4}$ Sec 9; NW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ Sec 16; NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ Sec 17; Lot 1 Sec 20; SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 23; SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 24; SW $\frac{1}{4}$ Sec 25; Lot 1, Lot 10, SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 26; Lot 1, Lot 3 Sec 35; W $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$ Sec 36; T38S R03W, 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
27,599		Douglas-fir	5163	\$16.50	\$85,189.50

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

CRUISE INFORMATION: Douglas-fir has been cruised using the (1) variable plot PCM Tree sampling methods to select sample trees for area units and Linear Feature units or (2) 3P tree sampling methods for RVM units. Maps showing the location and description of these sample trees are available at the Medford District Office. The sample trees have been measured using the volt system of measurement, and the volume expanded to a total sale volume.

With respect to all merchantable trees: the average tree is 16.5 inches DBHOB; the average gross merchantable log contains 72 bd. ft.; the total gross volume is approximately 7,467 MBF bd. Ft. and 69% recovery is expected.

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.

LOG BRANDING: 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: Seventeen (17) harvest units comprising three hundred twenty-eight (328) acres; Two (2) Linear Feature units comprising ninety-five (95) acres; and Two (2) Roadside Vegetation Management units comprising fourteen (14) acres units. Total: Twenty-One (21) units comprising four hundred thirty-seven (437) layout acres.

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 road through the contract area, existing BLM roads.

ROAD MAINTENANCE: The Purchaser will be required to maintain 7.40 miles of existing road listed in Section 3100 of Exhibit D1. An allowance in the amount of \$20,724.40 has been made for the maintenance of these roads. BLM will maintain 1.48 miles of roads listed in Section 3100 of Exhibit D1. The Purchaser will be required to pay a road maintenance obligation and/or a payment of a surface replacement fee for the use of these roads as listed in Provision R-2d.

SOIL DAMAGE PREVENTION: Pursuant to Section 26 of Form 5450-4, Timber Sale Contract, the Purchaser shall not operate or cause to have operated on the contract area any tractor-type logging equipment when soil moisture content at six (6) inch depth exceeds twenty-five (25) percent by weight as determined by the oven dry method.

EQUIPMENT REQUIREMENTS:

1. A yarding tractor not greater than 9 feet in track width equipped with an integral arch and winch system capable of lining logs at least 75 feet.
2. A tractor equipped with winged-toothed rippers.

SLASH DISPOSAL: Perform logging residue reduction and site preparation work on two hundred (211) 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 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. *Timber Designation:*
 - a. **RVM-DXD units** (Five feet above cut bank and six feet below the outside edge of road). Ground-based/reachable from road. Rocking will occur post-harvest road maintenance.
 - b. **LF-DXP units** (Up to 300 feet both sides of road) Logging system hybrid. Potential for DOWNHILL YARDING.
 - c. Area units are **RETENTION MARKED in YELLOW** for salvage harvest. All unmarked Douglas-fir trees meeting minimum merchantability specifications have been deemed dead or dying and need to be cut and removed regardless of individual tree value. Approximately six thousand and twenty-five (6,025) trees have been marked with **YELLOW** paint at base and DBH for retention.
2. Ponderosa pine, incense-cedar, yew, and hardwoods are reserved from cutting.
3. Trees which are greater than or equal to thirty-six (36) inch DBH that need to be cut for safety or operations shall be retained in a safe and stable manner within the unit.
4. Yarding of Unmerchantable Material (YUM) will be required to decrease excess fuel loading. The appraisal will show allowances for YUM activities. Additionally, all YUM logs will be sorted and hauled for biomass where feasible and as determined by Authorized Officer.
5. During Fire Season, purchaser and contractors required to follow all Oregon and BLM requirements for operating and equipment regulations.
6. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
7. This contract includes an additional special provision to ensure the Purchaser understands he/she is required to conduct all operations in compliance with Sec. 12 (Hold Harmless and Responsibility for Damages) and Sec. 29 (Safety and Health) and the Special Provisions included in Sec. 43 and Sec. 44 of this Contract.
8. Purchaser shall be responsible for complying with all county, state, and federal laws and regulations that relate to the execution of this contract (Sec. 29).
9. Directional falling is required
10. There are daily and seasonal restrictions in place on this sale.
11. Cleaning of equipment to eliminate noxious weed seeds is required prior to move-in of equipment onto federal lands.

12. Dust abatement is required.
13. There are slash treatment and pile placement requirements in place for this sale (Sec. 44(F)(SD)(1)).
14. Activity fuel residue reduction is required. Estimated Ninety-Nine (99) acres Lop and Scatter; One hundred (112) acres Hand Pile; One hundred (112) acres Hand Pile Burn; Twenty (20) acres Machine Pile Burn, as determined by the Authorized Officer and specified in writing by the Contracting Officer.
15. Fuels and Slash disposal prices will be displayed under Sec. 44(F)(SD)(5) provision in the contract. Amount of slash and appropriate treatments will be determined by Authorized officer upon completion of cutting and removal of timber. After a complete review of each unit, the contract price will be modified to reflect most accurate prices for appropriate treatments in each unit based on the slash remaining after completion of logging. The estimated costs of fuels treatments will be agreed on by both the BLM and the purchaser.
16. OPTIONAL CONTRIBUTIONS (C-1) The Purchaser shall perform HAND AND MACHINE PILE BURNING in accordance with Section 44(G)(7)(b) SD-5. The Purchaser shall have the option of completing the hand and machine pile burning work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of nine thousand two hundred-eighty dollars (\$9,280.00) and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this contribution prior to the date of execution of this contract.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA:

From the city of Jacksonville take Hwy 238 to a left on Bishop Creek road 38-3-23.

From the city of Jacksonville take Hwy 238 to a right on China Gulch road road 38-3-16.

ENVIRONMENTAL ASSESSMENT: Environmental assessment DOI-BLM-ORWA-M060-2025-0001-EA was prepared for this sale, and a Finding of No Significant Impact has been documented. These documents are available for inspection as background for this sale at the Medford District Office.

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SPECIAL PROVISIONS

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. 43. 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 six thousand and twenty-five (6,025) trees marked with YELLOW paint above and below stump height in units, as shown on Exhibit A.
- (C) IR-2 All timber except approximately four hundred-eight (408) trees designated for cutting heretofore by the Government in RVM-DXD units as shown on Exhibit A.
- (D) IR-5 All young growth conifers less than eight (8) inches in diameter D.B.H.O.B. not damaged in the normal course of logging in all units as shown on Exhibit A.
- (E) **IR-6 Reserve all healthy, green trees in all DXP-LF units as shown on Exhibit A, except where falling is necessary for safety or operational reasons.**
- (F) IR-6 Reserve all cedar, pine, hardwoods, and Pacific yew in all units as shown on Exhibit A, except where falling is necessary for safety or operational reasons. If such trees need to be cut for safety or operational reasons, retain cut trees in the stand.
- (G) IR-13 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-14 All pre-existing dead and down wood in all units as shown on Exhibit A.

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Sec. 44.

(A) Log Branding

- (1) LE-1 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 ten (10) inches, prior to the removal of timber from the contract area. All loads of eleven (11) logs or more will have a minimum of ten (10) logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of ten (10) logs or less. One end of all branded logs to be processed domestically will be marked with a three (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.

(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-2 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.
- (3) L-4 All trees designated for cutting shall be cut so that the resulting stumps shall not be lower than six (6) inches nor higher than twelve (12) inches measured from the ground on the uphill side of the tree. This height requirement may be reduced if approved by the Authorized Officer.

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- (4) L-5 All trees eight (8) inches or larger D.B.H.O.B. and not reserved shall be felled in all units shown on Exhibit A. All trees eight (8) inches or larger D.B.H.O.B. required to be cut shall be felled concurrently.
- (5) L-7 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-7 In all tractor units, as shown on Exhibit, fell trees over twenty-one (21) inches DBH designated for cutting into log lengths not to exceed forty-four (44) feet. Log segments would be completely limbed prior to yarding.
- (7) L-8 In all tractor units, as shown on Exhibit A, all trees twenty-one (21) inches DBH 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.
- (8) L-10 In the units shown on Exhibit A, all trees designated for cutting which are within one hundred-sixty (160) feet of unit or reserve area boundaries, BLM improvements, private property lines, corner monuments, or resource buffers shall be felled away from the features. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (9) L-12 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
Ground-Based Units: 8-1, 16-2	<p>Yarding tractor width will not be greater than twelve (12) feet as measured from the outer edges of the standard width dozer blade in the straight position, or nine (9) feet as measured from the outer edges of standard width track shoes.</p> <p>Yarding tractors will be equipped with integral arches capable of suspending one end of the log clear of the ground and winch systems capable of lining logs at least seventy-five (75) feet.</p> <p>One end suspension is required in all ground-based units. Avoid skidding across or through sites with BLM improvements.</p> <p>The location of landings and skid trails must be clearly flagged by the Purchaser's Representative on the ground, and the locations shall be approved by the Authorized Officer prior to use.</p>

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	<p>Incorporate existing skid trails and landings as a priority over creating new trails and landings where feasible, into a designated trail network for ground-based harvesting equipment. When new skid trails are needed, limit total (existing and new) designated skid trails to $\leq 15\%$ of the harvest unit area to reduce displacement or compaction to acceptable limits. Consider proper spacing (on average 100 feet), skid trail direction and location relative to terrain and stream channel features.</p> <p>Locate skid trails to minimize disturbance to coarse woody material. Where skid trails encounter large coarse woody material a section would be bucked out for equipment access. The remainder would be left in place and would not be disturbed.</p> <p>Restrict tractor and mechanical operations to slopes generally less than 35%. In areas where it is necessary to exceed these gradients to access adjacent tractor area, use ridge tops where possible.</p> <p>Minimize the area where more than half of the depth of the organically-enriched upper horizon (topsoil) is removed when conducting forest management operations.</p> <p>Restrict the amount of total area detrimental soil disturbance (i.e. compaction, displacement, erosion, burning) to below 20% in a timber harvest unit.</p> <p>Immediately after use, implement erosion control measures such as waterbars, slash placement, and seeding on skid trails where substantial gouging occurs that could lead to the capture and conveyance of water and/or contribute to soil erosion to waterbodies, floodplains, and wetlands, as determined by the hydrologist and as directed by the Authorized Officer</p> <p>If operators are using feller-bunchers or cut-to-length harvesters off of designated skid trails:</p> <ul style="list-style-type: none">- Allow mechanized equipment capable of creating and walking on slash (such as a cut-to-length system) to work off designated skid trails for one or two passes on at least eight inches of slash and under dry soil conditions (less than 25% soil moisture content);
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	<ul style="list-style-type: none"> - Allow mechanized equipment (feller-buncher systems) to work off designated skid trails during the dry season (soil moisture content less than 20%) for one or two passes only (one round-trip); - Use low, ground-pressure equipment off designated skid trails - Restrict all other use of ground-based equipment to designated skid trails; and <p>Mechanized felling equipment must have an arm capable of reaching at least twenty (20) feet.</p> <p>No front-end loaders are permitted.</p> <p>No yarding up or down draw bottoms is permitted.</p> <p>The use of ground-based equipment on unstable areas within units is not permitted.</p> <p>Any infrastructure impacted by logging operations (trails, service roads, kiosks, etc.) would be restored to their conditions as it was prior to logging operations.</p> <p>Log landing size shall not exceed one-half (1/2) acre.</p>
Helicopter Units 9-2, 16-1, 17-3, 17-6, 17-7, 17-8, 17-9, 23-3, 24-1, 25-7, 26-4, 35-7, 36-1, 36-2, 36-3	<p>Lift logs vertically (without horizontal movement) to a height above the adjacent reserve trees.</p> <p>Vertically lift multiple log turns from a small enough radius to result in minimal damage to the residual forest stand as determined by the Authorized Officer.</p> <p>Restrict aerial operations within 0.5 mile of any residence to an operating time of 6:00 a.m. to 6:00 p.m., Monday through Friday. Weekend aerial operations, within this distance, would require approval from the Authorized Officer.</p> <p>Log landing size shall not exceed one acre for helicopter yarding, and three acres for service landings.</p>
RVM-DXD units: RVM-1 (Belle) and RVM 2 (China)	<p>(Five feet above cut bank and six feet below the outside edge of road)-Ground-based/reachable from road. Remove bark and debris from road after use. To protect road, minimize move-ins and trips along road and turns at</p>

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	<p>landings. Ditch and culvert protection required.</p>
DXP-LF units: LF-7, LF-16	<p>(Up to 300 feet both sides of road, depending on stand conditions) Logging system hybrid. Potential for DOWNHILL YARDING. Highly variable stand types and conditions.</p> <p>To protect road, minimize move-ins and trips along road and turns at landings. Ditch and culvert protection required.</p> <p>Yarding tractor width will not be greater than twelve (12) feet as measured from the outer edges of the standard width dozer blade in the straight position, or nine (9) feet as measured from the outer edges of standard width track shoes.</p> <p>Yarding tractors will be equipped with integral arches capable of suspending one end of the log clear of the ground and winch systems capable of lining logs at least seventy-five (75) feet.</p> <p>One end suspension is required in all ground-based units. Avoid skidding across or through sites with BLM improvements.</p> <p>Yarding will be done with a skyline yarder system capable of suspending one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>A carriage which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet is required.</p> <p>A minimum of one end suspension is required in all skyline units.</p> <p>Prior to marking or falling any timber in the unit, all landings, yarding corridors, tail/lift trees and/or intermediate support trees shall be identified by the purchaser and approved by the Authorized Officer.</p> <p>Limit the width of skyline corridors to be as narrow as operationally feasible; do not exceed a 15-foot width. As practicable, set corridor spacing where they cross the</p>

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	<p>streams to no less than 100 feet apart when physical, topography, or operational constraints demand, with an overall desire to keep an average spacing of 200 feet apart.</p> <p>Immediately after use, implement erosion control measures such as waterbars, slash placement, and seeding in cable yarding corridors or in special yarding areas where substantial gouging occurs that could lead to the capture and conveyance of water and/or contribute to soil erosion to waterbodies, floodplains, and wetlands, as determined by the hydrologist and as directed by the Authorized Officer.</p> <p>Restrict the amount of total area of detrimental soil disturbance (i.e. compaction, displacement, erosion, burning) to below 20% in a timber harvest unit.</p> <p>Minimize downhill yarding.</p> <p>Log landing size shall not exceed one-quarter (¼) acre.</p> <p>See 44(B)(9) L-12 Ground-Based unit sections of this provision, above, for additional requirements.</p>
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- (10) L-14 No yarding or loading is permitted in or through plant sites, BLM improvements, or protected sites, in all units as shown on Exhibit A unless approved by the Authorized Officer.
- (11) L-19 No road construction, landing construction, skid trail construction, road renovation, road reconstruction, road decommissioning, road blocking/barricade construction, rocking, water bar construction, soil ripping, shall be conducted within contract area between October 15th of one calendar year and May 15th of the following calendar year, both days inclusive, or when soil moisture exceeds 25%, as determined by the Authorized Officer.
- No ground-based yarding or soil decompaction operations shall be conducted within contract area between October 15th to May 15th, or when soil moisture exceeds 25%.
- Block skid trails to prevent public motorized vehicle use and other unauthorized use by October 15th of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season.
- (12) L-19 Apply native, site-specific seed approved by the field office botanist and weed-free straw to all temporary roads, and newly constructed landings, the top fifty (50)

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feet of the skyline-cable yarding corridor where yarding logs to the road results in extended soil exposure, all predesignated skid trails, designated skid trails, and forwarder trails used for logging activities in all ground based units as shown on Exhibit A, beginning where the trail takes off of system roads, or landing areas for a distance of one hundred (100) feet, or as needed, as determined by the Authorized Officer.

Seeding and mulching would occur in the same operational season that construction activities occur. If hauling is not completed in the same year the route is constructed, storm proof and block the route by October 15th or when soil moisture exceeds 25%. Seeding and mulching would occur between September 1st and October 31st, or February 1st and March 31st or as approved by the Authorized Officer.

- (13) L-19 Restrict all timber hauling and landing operations on native surface 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 to May 15. If the Authorized Officer, in consultation with Field Office watershed specialists and engineers, 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, a conditional waiver for hauling may be granted. The conditional waiver may be suspended or revoked if conditions become unacceptable as determined by the Authorized Officer.
- (14) L-19 The Purchaser may wet season haul, with the Authorized Officer's approval on the following roads: 38-3W-5.00, 38-3W-5.01, 38-3W-5.02, 38-3W-7.00, 38-3W-8.00, 38-3W-16.00, 38-3W-16.01, 38-3W-23.00, 38-3W-23.01, 38-3W-26.01, and 38-3W-26.02. If the use of these roads during the wet season causes or begins to cause road damage or the transport of sediment into streams, the Authorized Officer may suspend wet season haul or require additional erosion control devices to prevent damage or off-site transportation of sediment. Additional rock may be required at the Purchaser's expense to repair any damage that occurs to the road during wet season haul.
- (15) L-19 There are no known NSO sites within 0.25 miles of proposed harvest units. If discovery of any new owls occurs within 0.25 miles of harvest units following the sale date, seasonally restrict harvest activities from March 1st to September 30th within 0.25 mile of new NSO sites.
- (16) L-20 No operations shall be conducted within all harvest units, as shown on Exhibit A, between March 1st through July 15th of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from Northern Spotted owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Northern Spotted owl nesting and/or fledging activities are not occurring during the year or time of harvest.

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- (17) L-24 Before cutting and removing any trees necessary to facilitate logging in all units as shown on Exhibit A, the Purchaser shall identify the location of skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following conditions must be met:
- (a) All skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees; however, unless otherwise approved in writing by the Authorized Officer, the width of each skid road shall be limited to twelve (12) feet, and cable yarding roads shall be limited to fifteen (15) feet.
 - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees when the trees have been marked with pink paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Sec. 3.(b) of the contract or sufficient bonding has been provided in accordance with Sec. 3.(e). of the contract.
 - (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that all trees otherwise reserved in section 43 of the contract or any tree that exceeds 28 inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Sec. 8 of the contract.
 - (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for

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cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.

- (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or Sec. 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
- (f) The Government may reserve trees previously designated for cutting and removal by applying YELLOW paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription(s). The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.
- (18) L-25M Except for logs sold and removed from the contract area, all logs from areas specified below and shown on Exhibit A, which meet the length and diameter specifications shown below, shall be yarded and hauled off the sale area. If a log or piece of log meeting the specifications shown below is bucked and left in place, all portions of that log shall be yarded and decked or windrowed to the following described log destination area(s).

Specified Areas	Log Destination Areas	Log Specifications
All Units as shown on Exhibit A.	Hauled off sale area	Logs, including hardwoods, which are eight (8) inches DBH or larger, and longer than (17) feet in length.

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- (19) L-25 In the skyline units shown on Exhibit A, the Purchaser shall make cable road changes by completely re-spooling the cables and restringing the layout from the head spar to the new tailhold to protect the advance reproduction present on these areas.
- (20) L-32 In all units as shown on Exhibit A, trees which are greater than or equal to thirty-six (36) inch DBH that need to be cut for safety or operations shall be retained in a safe and stable manner within the unit, unless otherwise agreed to by the Authorized Officer.

(R) ROAD CONSTRUCTION, MAINTENANCE, AND USE

- (1) R-1: The Purchaser shall construct, improve, renovate, and/or decommission all roads and structures in strict accordance with the plans and specifications shown on Exhibit C and Exhibit D, which is attached hereto and made a part hereof.
- (2) R-1a: Any required construction, improvement, or renovation of structures and roads shall be completed and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber, over that road.
- (3) R-2: The Purchaser is authorized to use the roads listed and shown on Exhibit D Section 3001 for the removal of Government timber sold under the terms of this contract, provided that the Purchaser pay the required maintenance obligations described in Provision R-2d. Any road listed on Exhibit D and requiring construction, improvement, or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, improvement, or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance fees for the sale of additional timber under modification to the contract.
- (4) R-2a: With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of roads included in Provision R-2f 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.
- (5) R-2d For road numbers 38-3W-5.00 and 38-3W-23.00 the Purchaser shall pay a road maintenance of \$0.82 per thousand board feet log scale per mile for the use of said roads. The total maintenance and rockwear fees due shall be based upon volumes determined pursuant to Exhibit B of this contract and mileage of roads used as determined by the Authorized Officer. 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 timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Purchaser will be required to label, with a permanent ink marker, each load ticket with the corresponding unit number as

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directed by the Authorized Officer. The Authorized Officer shall establish an installment schedule of payment of the maintenance obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total maintenance payments made under this contract exceed the total maintenance payment due, such excess shall be returned to the Purchaser after such determination is made.

- (6) R-2e: The Contracting 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 and rockwear fees for the particular surface type of the roads involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Exhibit D Section 3001. If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.
- (7) R-2f: The Purchaser shall perform any required road repair and maintenance work on roads identified as Purchaser maintenance, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof. The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.
- (8) R-3c: The Purchaser agrees that if they elect to use any other private road, which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, 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.
- (9) R-4: The Purchaser shall be required to secure written approval to use vehicles or haul forest products and equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

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.

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- 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 or equipment: (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.

- (10) R-5: Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices.

The Purchaser shall be responsible for repair of any damage to roads or structures caused by the use tracked vehicles or equipment: (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 During operations the operator would be required to have a BLM-approved spill plan or other applicable contingency plan. In the event of any release of oil or hazardous substance, as defined in Oregon Administrative Rules (OAR) 340-142-0005 (9)(d) and (15), into the soil, water, or air, the operator would immediately implement the site's plan. As part of the plan, the operator would be required to have spill containment kits present on the site during operations. The operator would be required to be in compliance with OAR 629-605-0130 of the Forest Practices Act, Compliance with the Rules and Regulations of the Department of Environmental Quality. Notification, removal, transport, and disposal of oil, hazardous substances, and hazardous wastes would be accomplished in accordance with OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements, contained in Oregon Department of Environmental Quality regulations.

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

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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 Store all hazardous materials and petroleum products in durable containers placed outside of Riparian Reserves. Locate so an accidental spill would be contained nor drain into any stream system.

Refuel equipment a minimum of 175 feet from streams, ponds, or other wet areas. Store equipment containing reportable quantities of toxic fluids outside of the Riparian Reserve. Hydraulic fluid and fuel lines would be in proper working condition in order to minimize leakage into streams.

- (3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only be allowed to use equipment that is free of noxious weed seeds prior to entering federal lands in the contract area as shown on Exhibit A.

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

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

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

- (4) E-1 In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall block all temporary roads, and newly constructed landings (except landings located along temp spurs to be decommissioned), and at any location where an existing barricade has been removed to provide access to units as shown on Exhibit A. Temporary roads, and newly constructed landings (except landings located along temp spurs to be decommissioned), shall be blocked in the same season of use (generally by October 15th). If hauling on a temporary route or its associated landings is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15th or before soil moisture exceeds 25%.

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Road renovation would occur during the dry season (May 15th to October 15th). Variations in these dates would be permitted dependent upon weather and soil moisture conditions and with a specific erosion control plan (e.g., rocking, water-barring, seeding, mulching, barricading) as determined by the Authorized Officer in consultation with aquatic and/or soils scientists. All road and landing construction activities would be stopped when a storm event resulted in degrading conditions as evidenced by turbid runoff, turbid ditch flow, ponding, or rutting or other displacement in excess of two inches. Watershed specialists would closely monitor storms that result in precipitation and would convey pertinent information to the Authorized Officer. Similarly, the Authorized Officer would convey road, landing, and ditch conditions to the aquatic and/or soil specialists.

De-compact skid trails, landings, and temporary roads where needed to achieve no more than 20% detrimental soil conditions and to minimize runoff. Construct water bar all temporary routes and associated landings, and roads identified for full decommissioning to a depth of 18 inches or bedrock (whichever is shallower). Avoid subsoiling areas near tree roots and where there are rocks larger than 2 feet across. Apply native, site-specific seed approved by the field office botanist and weed-free straw, and block upon completion of use. Seeding and mulching would occur in the same operational season that construction activities occur. If hauling is not completed in the same year the route is constructed, storm proof and block the route by October 15th or before soil moisture exceeds 25%.

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 to block and discourage unauthorized vehicle use.

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 15th of each calendar year.

Block skid trails by October 15th of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season.

- (5) E-1 In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall seed and mulch all temporary roads, and newly constructed landings within the project area as shown on Exhibit A.

Apply native, site-specific seed approved by the field office botanist, weed-free straw, and/or water-bars to the top 50 feet of the skyline-cable yarding corridor where yarding logs to the road results in extended soil exposure.

Seed and mulch all predesignated skid trails, designated skid trails, and forwarder trails used for logging activities in all ground-based units as shown on Exhibit A,

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beginning where the trail takes off of system roads, or landing areas for a distance of one hundred (100) feet, or as needed as determined by the authorized officer

Seed must be native species, site-specific, and approved by the resource area botanist. If hauling on a temporary route or its associated landings 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%.

Apply native, site-specific seed and straw between September 1st and October 31st, and/or between February 1st and March 31st of the year of harvest, unless otherwise approved by Authorized Officer.

The Purchaser shall furnish the specific seed mixture prescribed by the Authorized Officer, which will include up to 3 grasses and 2 forbs from the following list, but may include substitutions approved by the Authorized Officer:

Grasses: *Achnatherum lemmonii*, *Bromus carinatus*, *Brumus vulgaris*, *Elymus glaucus*, *Festuca californica*, *Festuca roemerii*, *Koeleria macrantha*, *Poa secunda*, *Vulpia microstachys*

Forbs: *Achillea millefolium*, *Clarkia purpurea*, *Clarkia rhomboidea*, *Collinsia grandiflora*, *Eriophyllum lanatum*, *Lupinus bicolor*, *Madia elegans*, *Madia gracilis*

The proportion of each species in the mixture shall be prescribed by the Authorized Officer.

The Purchaser shall apply prescribed seed and straw mulch to acres designated for treatment, as directed by the Authorized Officer, at the following rates of application:

Grass seed	20 to 25 lbs/acre (cumulative, all species)
Forb seed	0.5 to 2 lbs/acre (cumulative, all species)
Straw mulch	1000 lbs/acre

The Purchaser shall apply seed and straw mulch between September 1st and October 31st, and/or between February 1st and March 31st of the year of harvest. Deviations from that timing must be approved by the Authorized Officer. The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date that he/she intends to commence revegetation and soil stabilization work.

If the Purchaser furnishes seed from any source other than the BLM, that seed shall meet the following minimum test standards:

<u>Test</u>	<u>Grasses</u>	<u>(%)</u>	<u>Forbs (%)</u>
Purity:		95	80
Germination:		85	70
Other species/weed content (max):		0.2	0.2
Noxious weed content:	Prohibited		Prohibited

Furnished seed shall meet the minimum requirements for either Yellow Tag Source Identified Seed or Blue Tag Certified Class Seed, as defined by the Association of

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Official Seed Certifying Agencies. Seed source shall be approved by the Authorized Officer and shall be from the EPA Level III Ecoregion in which the project occurs. For each lot of seed, the Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (e.g., Oregon State University), which shall include: test date; lot number; seed source; and results of test for purity, germination, and weed content. All seed lots must have been tested within the previous 12 months to be accepted. Seed that has become wet, moldy, or otherwise damaged shall not be accepted. Seed must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work.

If the Purchaser furnishes straw mulch from any source other than the BLM, the material must be from native grass or other approved sterile grain crops that are certified weed free and free of mold or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for spreading in a uniform manner. Straw mulch must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work.

- (6) 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 W (special provisions), which is attached hereto and made a part hereof.
- (a) Water-bar all skid trails and yarding corridors as needed to prevent erosion by October 15th of the year of harvest.
- (b) Install water-bars at the same time as subsoiling (if both are required) unless skid trails are needed to complete harvest the following season. In that case, water bars would be constructed and straw would be applied to exposed soil prior to fall rains to reduce sedimentation during winter months. Water-bar spacing on tractor skid trails would be based on the RMP erosion-control measures for timber harvest, which considers slope and soil series.
- (7) E-3 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
- (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
- (b) when, in order to comply with the Endangered Species Act, or to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), the Contracting Officer determines it may be necessary to modify or terminate the contract, or;

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- (c) Federal proposed, Federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
- (d) 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;
- (e) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (f) when, in order to comply with a stay or other remedy issued by the Interior Board of Land Appeals (IBLA) the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (g) species have been discovered which were identified for protection in accordance with management direction established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
- (h) when, in order to protect species which were identified for protection in accordance with management direction 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.

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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.j. 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.

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, court-ordered injunctions, or an IBLA issued stay or remedy, 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 modify the contract or terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, prevent incidental take of northern spotted owls in accordance with the ROD and RMP, protect species that have been discovered which were identified for protection in accordance with management direction established in the ROD and RMP, or comply with a court order or an IBLA issued stay or remedy. 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, if able to proceed without causing incidental take of northern spotted owls in accordance with the ROD and RMP, if consistent with species protection in accordance with management direction established in the ROD and RMP, or if consistent with a court order or an IBLA issued stay or remedy.

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In the event the contract is modified or 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 There are no known NSO sites within 0.25 miles of proposed harvest units. If discovery of any new owls occurs within 0.25 miles of harvest units following the sale date, seasonally restrict harvest activities from March 1st to September 30th within 0.25 mile of new NSO sites. 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.

Units started before February 1 may operate up to and concurrently with BLM NSO surveys starting March 1.

(E) Miscellaneous

- (1) M-2 The Government at its option may check scale any portion of the timber removed from the contract area. The Purchaser hereby agrees to make such contract timber available for scaling at a location designated by the Authorized Officer. In the event that BLM elects to 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 Five Thousand One Hundred Sixty-Two Dollars (\$5,162.0). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of

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\$0.75 per net thousand board foot of timber scaled 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 in log transportation and/or yard operations. Such adjustment to the total purchase price shall be made by unilateral modification of the contract executed by the Contracting Officer. Scaling will be conducted 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

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(F) Fire Prevention and Control

1. F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 - (a) Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the State of Oregon, Department of Forestry.
 - (b) Provide and maintain in good repair, on the contract area, the following equipment for use during closed fire season or periods of fire danger:
2. F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever people are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall not be less than four (4) tools in each box nor less than one (1) tool for each person working on the contract area. Three-fourths ($\frac{3}{4}$) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.
3. F-2b A round pointed size zero (0) or larger shovel in good condition, shall be within fifty (50) feet of any power saw when in operation.
4. F-2c At each landing during periods of operation one (1) tank truck. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute (ORS) 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.410 as amended or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.
5. F-2d Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area and Medford, Oregon. Such

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communication shall be available during periods of operation including the time watch-service is required.

6. 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.
7. 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.
8. 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.
9. 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.
10. F-5 Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.
11. F-8 Blasting caps and fuses shall not be used during closed fire season or any period of fire danger on any land administered by the Government. Blasting with electric detonators during the closed fire season or periods of fire danger is permitted only between the hours of 4:00 a.m. and 10:00 a.m.

ORM06-TS-2025.0009 CHOPPER STYX TIMBER SALE
SPECIAL PROVISIONS

(G) Slash Disposal and Site Preparation

1. SD-1c EXCAVATOR PILE AND BURN. Pile all slash in units or portions of units as determined by the Authorized officer in accordance with the following specifications:
 - a. 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. No portion of the Excavator pile will be within 25 feet of the dripline of any living conifer tree.
 - b. 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.
 - c. 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.
 - d. Prior to the commencement of piling work, all equipment shall meet the approval of the Authorized Officer.
 - e. Excavators are limited to designated skid roads approved by the Authorized Officer.
 - f. 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.
 - g. 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.
 - h. 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.

ORM06-TS-2025.0009 CHOPPER STYX TIMBER SALE
SPECIAL PROVISIONS

2. SD-1f LOP AND SCATTER Lop and scatter all slash as directed by the Authorized Officer, concurrently with normal felling operations. All tops and side branches must be free of the central stem so that such slash is reduced to the point that it is within eighteen (18) inches of the ground at all points.

3. SD-1h HANDPILE Handpile all slash as directed by the Authorized Officer in accordance with the following specifications:
 - (a) Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.
 - (b) Pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds three (3) feet in length.
 - (c) A six (6) foot by six (6) foot sheet of four (4) mil polyethylene black plastic shall be placed in each pile in a manner such that approximately one-third ($\frac{1}{3}$) of the pile lies above it to hold it in place and so that a 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 ($\frac{1}{2}$) 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. Pile size shall be a maximum of eight (8) feet in diameter and eight (8) feet in height and minimum size of six (6) feet in diameter and five (5) feet in height. No piles shall be circular and not windrowed. No pile shall be located within sixty (60) feet of fish-bearing, perennial streams or within thirty-five (35) feet from non-fish-bearing, intermittent streams. Piles shall not be located on down logs, stumps, talus slopes, roadways, or drainage ditches. No pile shall be located within ten (10) feet of reserve trees, any other pile, or unit boundary. No pile shall be located within fifteen (15) feet of official BLM recreation trail centerlines. No pile shall be located within twenty-five (25) feet of designated wildlife trees. No portion of the pile will be under the crown of any living conifer tree. Do not hand pile slash within 35 feet from intermittent stream channels and 120 feet from perennial streams.
 - (d) Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:

ORM06-TS-2025.0009 CHOPPER STYX TIMBER SALE
SPECIAL PROVISIONS

- (I) 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.
- (4) SD-1i LANDING PILES In all units as shown in the Exhibit A, pile all slash located within fifty (50) feet on each side of each landing. Slash shall be piled by a grapple loader. Finished piles shall be tight and free of earth. Do not machine pile slash within riparian areas, unless otherwise directed by the Authorized Officer.
- (a) A ten (10) foot by ten (10) foot cover of four (4) mil black plastic shall cap each pile to maintain a dry ignition point that contains fine fuels (i.e. kindling). 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. No portion of the landing pile will be within 50 feet of the dripline of any living conifer tree. Utilize areas with existing disturbed soils for machine piles where feasible.
- (5) SD-4 Logging Residue Reduction. In addition to the requirements of Sect.15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and site preparation measure(s) required by this contract:
- Prior to commencement of any operation under this section of the contract, a slash disposal and site preparation pre-work conference between the purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All slash disposal and site preparation shall be done in accordance with the plans developed at this pre-work conference.
- Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of purchaser's operations under the terms of this contract, including material cut during slashing activities for the purposes of fuels reduction.
- Refueling of chainsaws and other equipment will be done no closer than one hundred fifty (150) feet of any stream or wet area. Spilled fuel and oil would be cleaned-up and would be disposed of at an approved disposal site.
- (6) SD-4a SLASHING DAMAGED RESIDUALS. Slash all sprung or otherwise severely damaged trees greater than one (1) inch and less than six (6) inches D.B.H.O.B. concurrently with logging as designated by the Authorized Officer. All slashing is to be completed prior to any required piling of slash.

ORM06-TS-2025.0009 CHOPPER STYX TIMBER SALE
SPECIAL PROVISIONS

(7) SD-5 Perform logging residue reduction and site preparation work on approximately two hundred and one (211) acres of harvest area as directed by the Authorized Officer.

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

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

Treatment Level	Cost Per Acre	Number of Acres	Total Cost Per Treatment Type
Lop and Scatter	\$90.00	99	\$8,910.00
Handpile L 1	\$325.00	112	\$36,400.00
Hand Pile Burn	\$65.00	112	\$7,280.00
Machine Pile Burn	\$100.00	20	\$2,000.00

Hand Treatment Total	\$45,310.00
Burn Total:	\$9,280.00
Complete Total:	\$54,590.00

(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 44(G(7)(a) differs from: fifty two thousand five hundred-ninety dollars (\$54,590.00) as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 44(G(7)(a).

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

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

ORM06-TS-2025.0009 CHOPPER STYX TIMBER SALE
SPECIAL PROVISIONS

Purchaser also shall be responsible for such additional costs.

(H) CONTRIBUTIONS



- (1) C-1 The Purchaser shall perform HAND AND MACHINE PILE BURNING in accordance with Section 44(G)(7). The Purchaser shall have the option of completing the hand and machine pile burning work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of nine thousand two hundred-eighty dollars (\$9,280.00) and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this contribution prior to the date of execution of this contract. If the total contribution does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to the commencement of operations. If the total contribution exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments.

(I) Equal Opportunity in Employment

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

Seasonal Restriction Matrix

Chopper Styx Timber Sale
ORM06-TS-2025.0008

 *Restricted Times are Shaded
 **Crosshatched areas are available for a waiver by contracting officer, see contract for guidelines.

Sale Unit	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
ALL UNITS	Ground-based yarding; road and landing construction; road renovation: road closure and decommissioning work; and soil de-compaction operations ¹																								
	Hauling on natural surface or inadequately surfaced roads ²																								
	Seeding ³																								
ANY UNIT WITH NSO SPOT CHECKING	All timber harvest activities ⁴																								
ANY UNIT WITH NEW OWL	All timber harvest activities ⁵																								

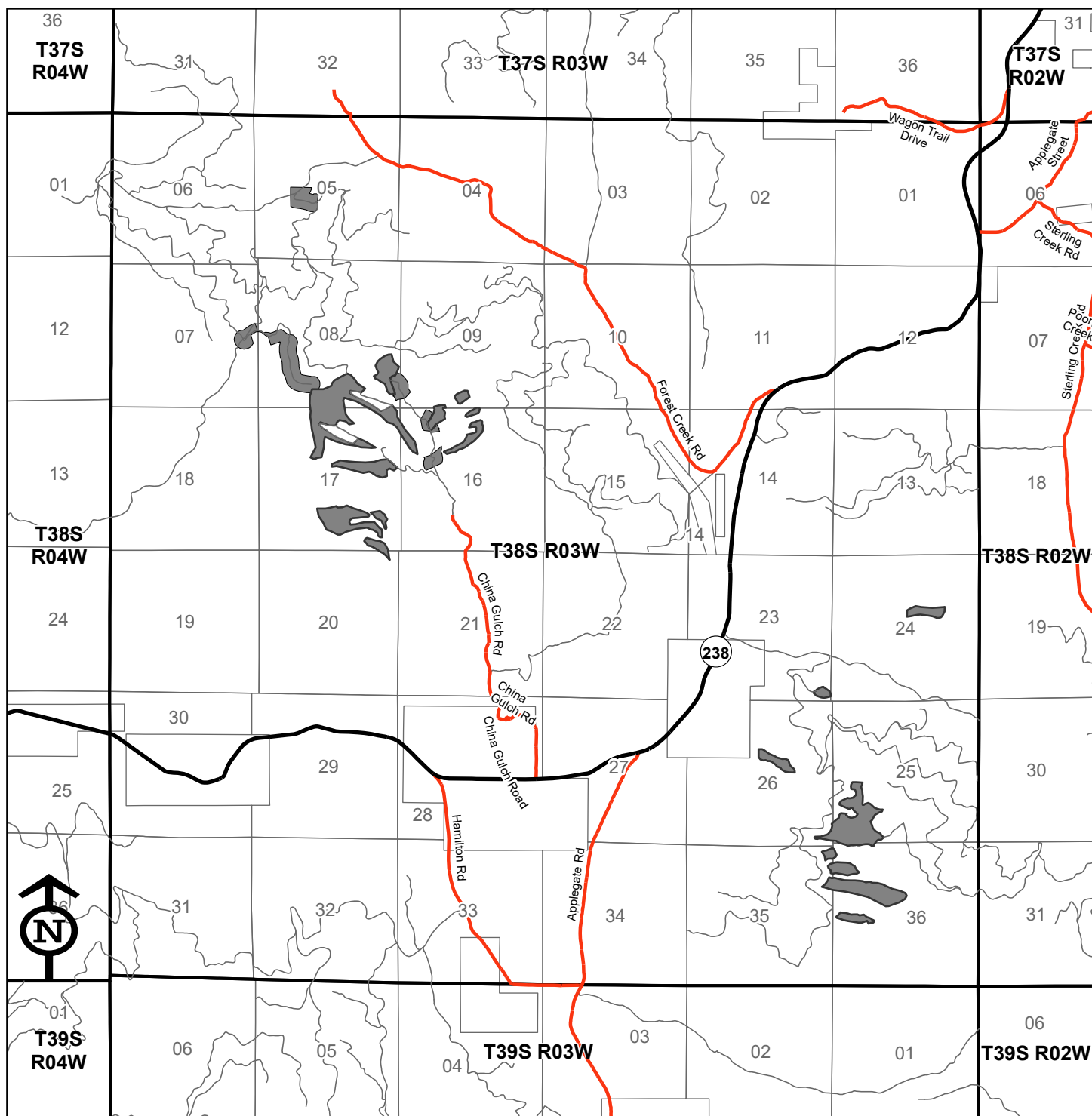
¹ Wet season restrictions may be shortened or extended depending on weather conditions.

² Hauling restriction may be shortened or extended based on site specific current road and ground conditions (see L-19 in contract)

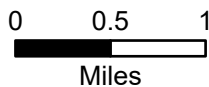
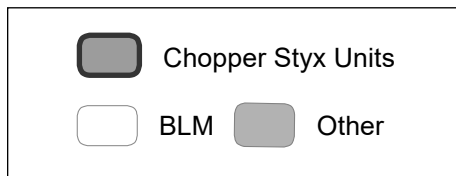
³ Seeding dates may be extended if approved by appropriate specialists

⁴ If a unit has no resident owl(s), projects may be initiated, or continue if ongoing, during the breeding season concurrent with spot checks. If a unit has no resident owl(s), but known spotted owl sites occur in the survey area, projects may be initiated during the breeding season (or continue if ongoing) concurrent with spot checks. If a unit has no resident owl(s), and no known spotted owl sites occur in the survey area, BUT portions of spotted owl habitat within the survey area is unsurveyed during protocol surveys, spot checks must be completed prior to operations occurring after February 1. Operations cannot be done concurrently. If a unit has a resident owl(s), spot checks must be completed prior to operations occurring after February 1. Operations cannot be done concurrently. If spotted owls are detected in the spot check area, ALL ongoing operations that have a likelihood of direct harm to a spotted owl and/or creating above-ambient noise shall be postponed. If spotted owls are not detected, the project may continue through that breeding season. Should the project continue into the following breeding season, spot checks should be repeated.

⁵ Spotted Owl seasonal restrictions from July 16 through September 30 may be shortened if it is determined that spotted owl nesting and/or fledgling activities are not occurring in the area.

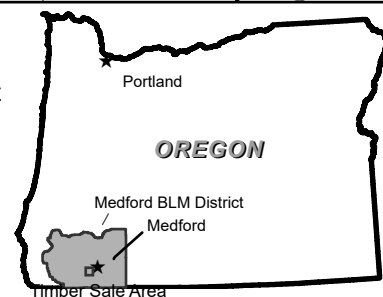


Medford District BLM - September 2025



1:64,000
 Contours = 40 feet

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RESERVE TREE MARK YELLOW, SALVAGE HARVEST, GROUND-BASED	RTM-SH-GB	8-1, 16-2
RESERVE TREE MARK YELLOW , SALVAGE HARVEST, HELICOPTER	RTM-SH-H	23-3, 24-1, 25-7, 26-4, 35-7, 36-1, 36-2, 36-3
DXP, SALVAGE HARVEST, GROUND-BASED/CABLE, LINEAR FEATURE	DXP-SH-GB/C-LF	LF-7, LF-16
GROUND-BASED, ROADSIDE VEGETATION MANAGEMENT	GB-RVM	RVM-1(Belle), RVM-2 (China)
HARVEST ACTIVITY SLASH DISPOSAL	SD	ALL UNITS

RTM-Reserve Tree Mark, SH-Salvage Harvest, GB-Ground-Based, H-Helicopter,
RVM-Roadside Vegetation Management, LF-Linear Feature, SD-Slash Disposal ,
DXP-Designation by Prescription

Area Unit Acres	328
Linear Feature Acres	95
Roadside Vegetation Management Acres	14
Contract Acres	
 Total Acres	 437

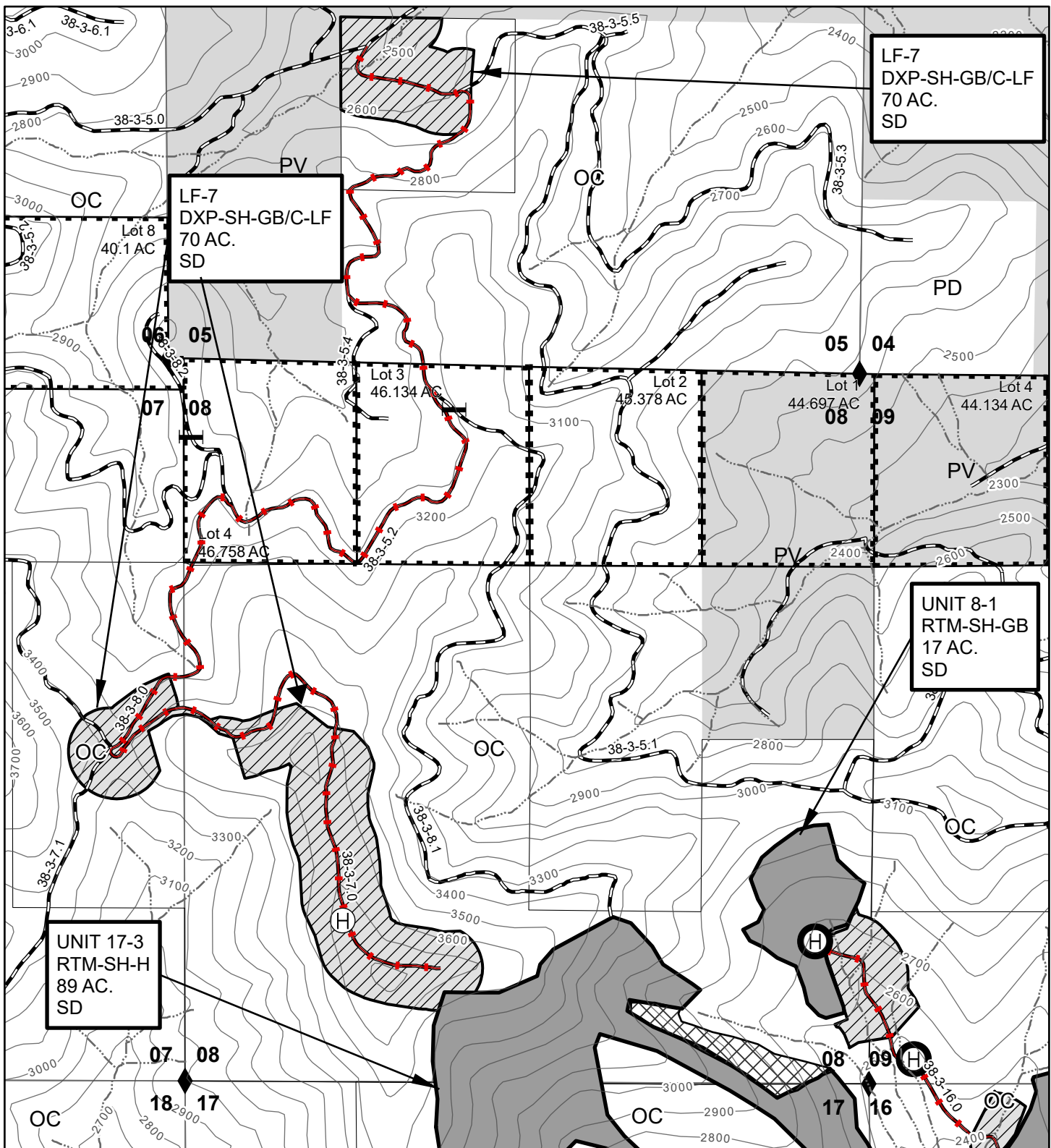


Legend

	Found Corner		100 ft. Index Contour
	Barricade, Existing		Government Lot
	Road		Contract Area
	Roadside Vegetation Maintenance		Linear Feature
	Temporary Road Construction		BLM Administered Land
	Designated Tractor Swing Road		Non-BLM Land
	Stream		Skips
	Canal / Ditch		Cutting Area
	Existing Landing		
	New Landing		

RTM-SH-GB	RESERVE TREE MARK, SALVAGE HARVEST, GROUND BASED UNITS,
RTM-SH-H	RESERVE TREE MARK, SALVAGE HARVEST, HELICOPTER UNITS .
SD	HARVEST ACTIVITY SLASH DISPOSAL (ALL UNITS)
DXP-GB/C-LF	DESIGNATION BY PRESCRIPTION, GROUND-BASED CABLE HYBRID, LINEAR FEATURE





100 FOOT CONTOURS

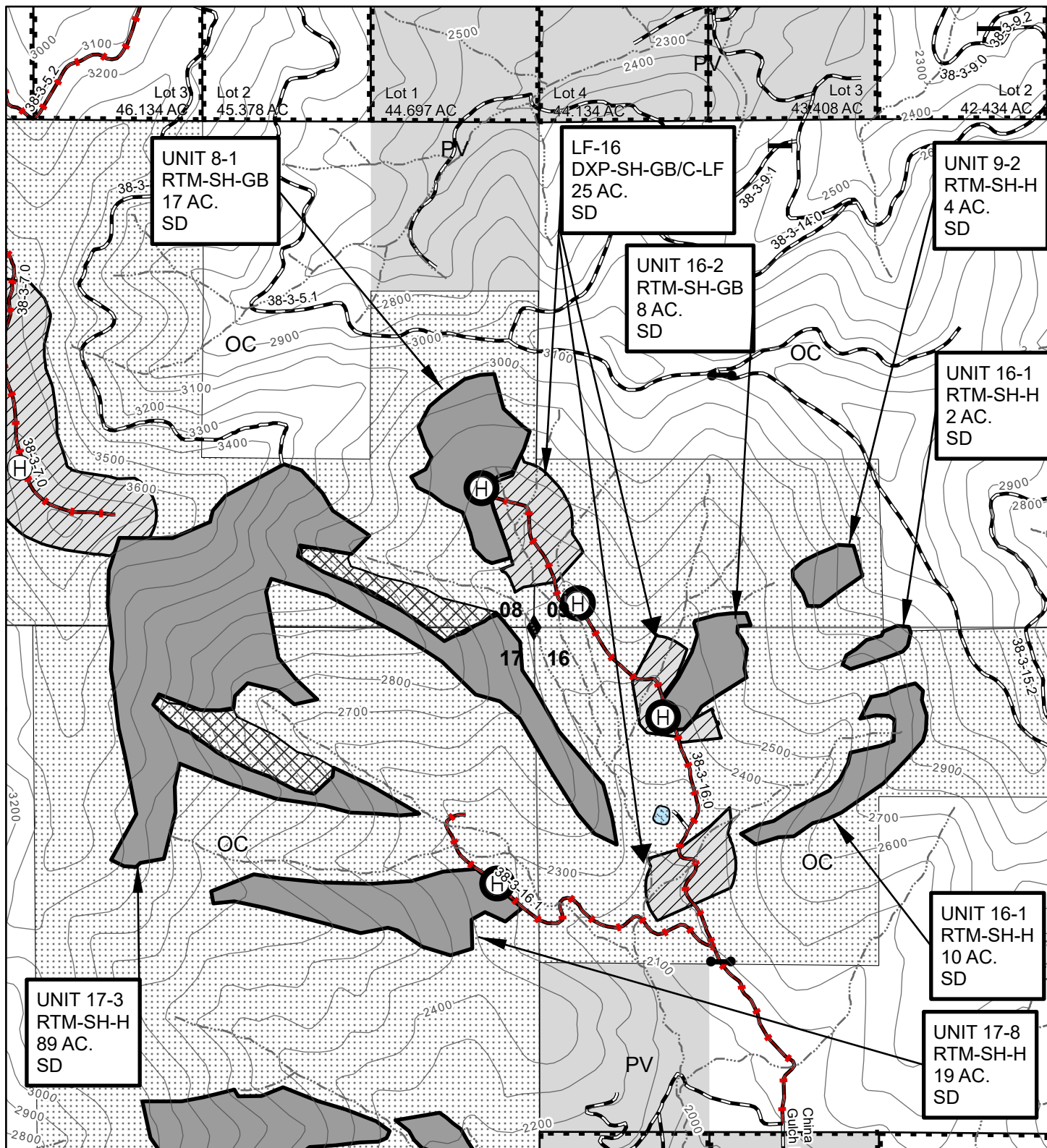
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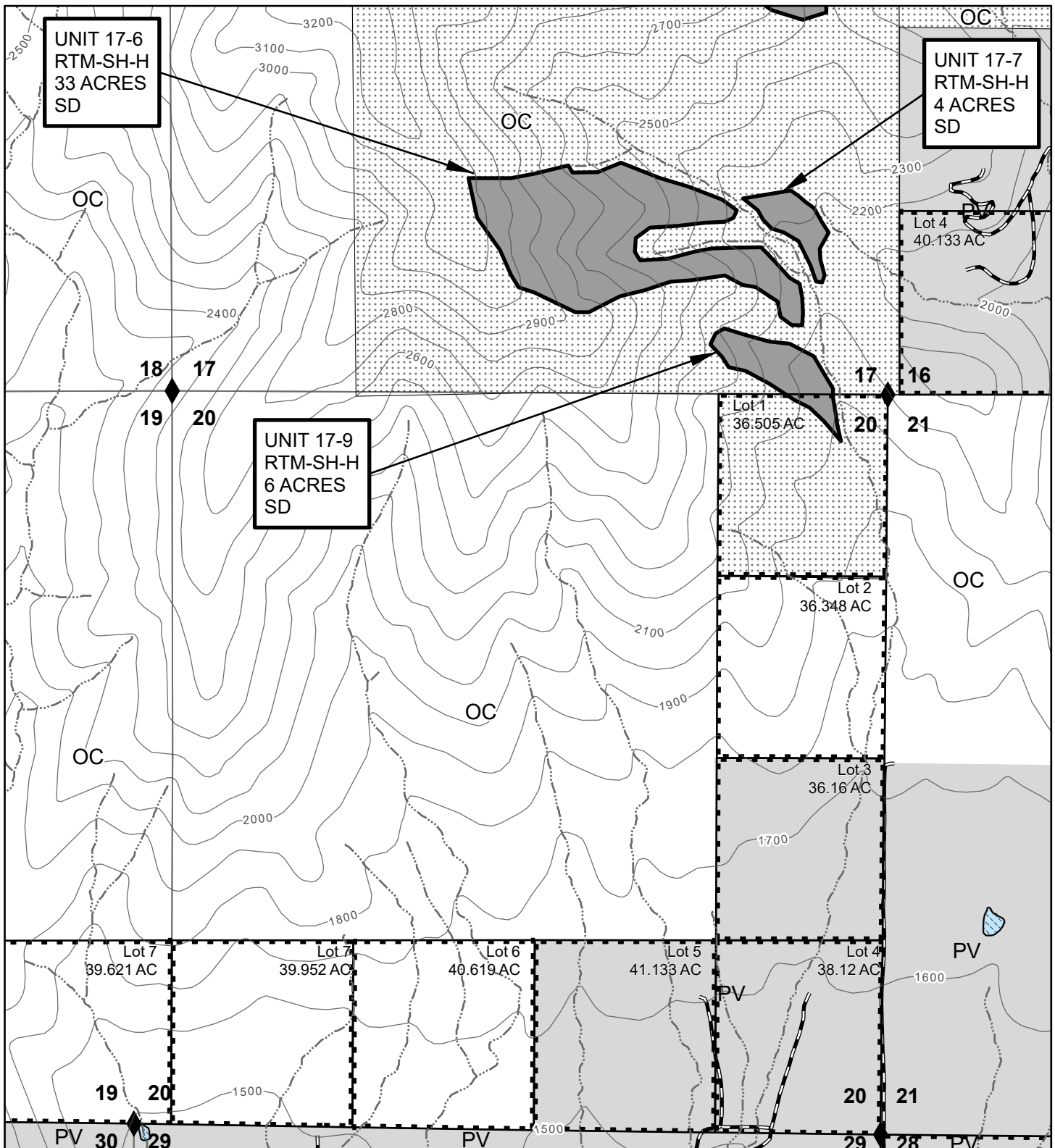
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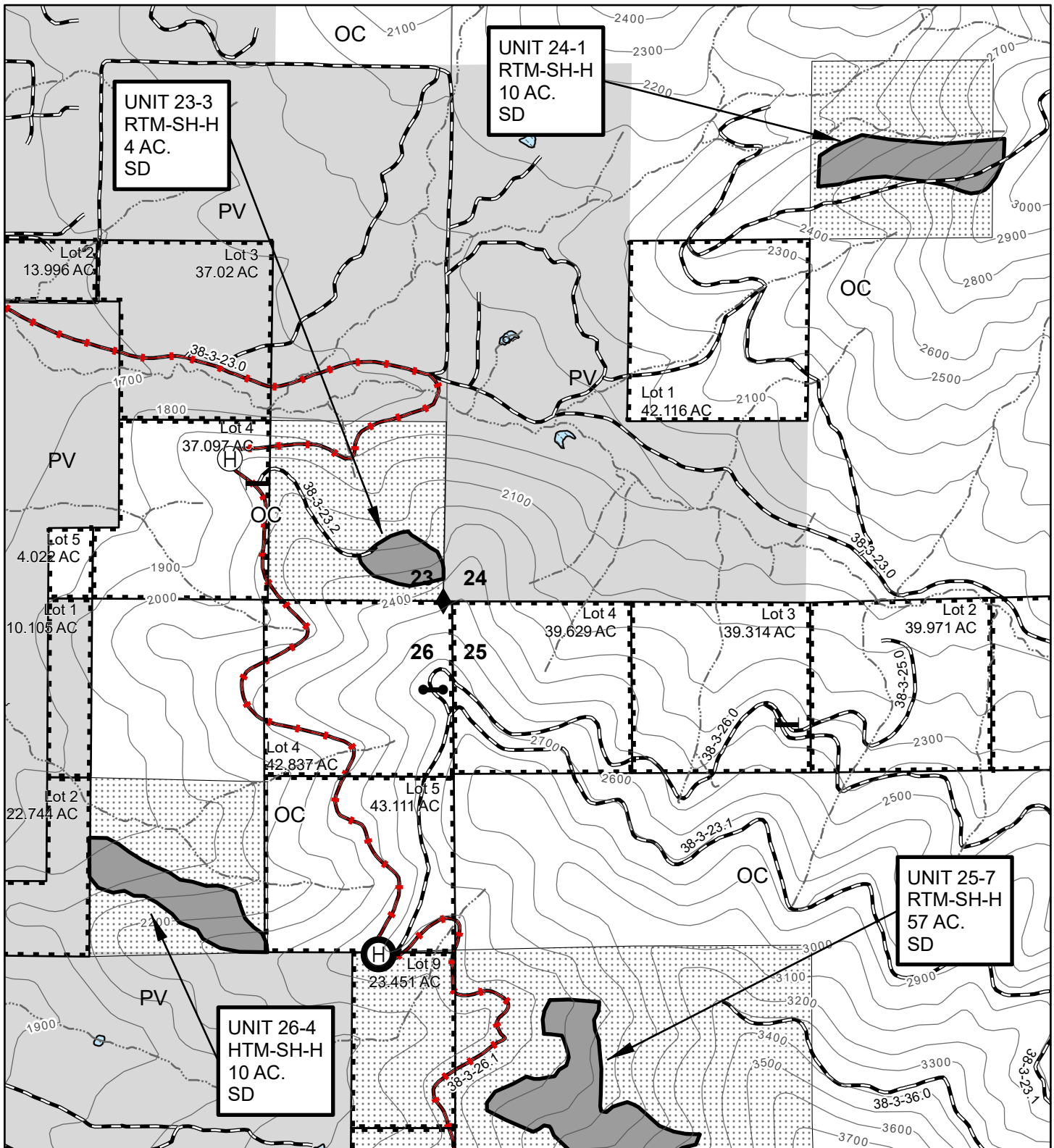
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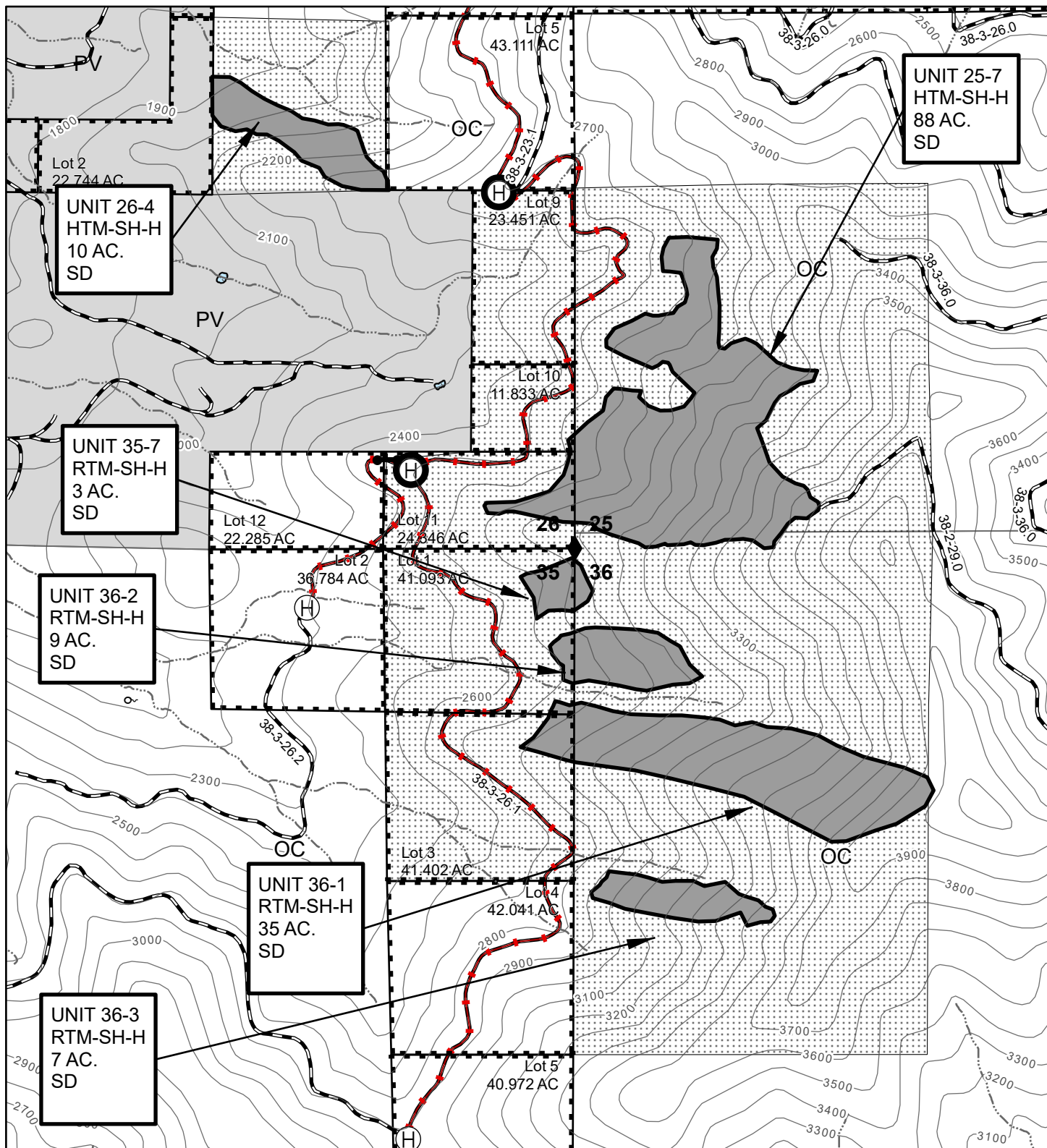
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100 FOOT CONTOURS

0 0.28 0.55 Miles

1:12,600



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Information for Timber Sale Notice, Prospectus, Sec. 43 & 44

Chopper Styx TS Timber Sale

ORM06-TS-2025.0008

27,599	4,100.0	Douglas Fir	5,163.0	\$0.00	\$16.50	\$85,189.50

CRUISE COMPLETED:	May 2025

Units- PCMTRE Linear Feature- PCMTRE Roadside Vegetation Management- 3P

TRACT FEATURES

ALL SPECIES

QM DBH	16.5	INCHES
GM LOG	72	BD FT
Total Gross Volume	7,467	MBF
Recovery	69	%
Salvage	0	MBF
Export	0	MBF

Dominant Species: **Douglas Fir**

QM DBH	16.5	INCHES
GM Log	72	BD FT
Recovery	69	%
Salvage	0	MBF

Admin Scale Allowance		\$0.00	\$/MBF
	TOTAL ADMIN. SCALE Allowance	\$0.00	

EXPORT VOLUME (LE-1)	Port Orford Cedar	0	MBF
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Reserve Tree Paint Color	Reserve Tree Count
	0

Harvest Tree Paint Color	Harvest Tree Count
	0



**United States
Department of the Interior
Bureau of Land Management**

Timber Appraisal

Sale Name: Chopper Styx TS	Sale Date: Thursday, August 14, 2025
BLM District: Medford DO	Unit of Measure: 16' MBF
Contract #: ORM06-TS-2025.0008	Contract Term: 36 months
Sale Type: Advertised	Contract Mechanism: 5450-004

Scale Sale of Timber and other Wood Products

Content

Timber Appraisal Summary
Stumpage Summary
Unit Summary
Stump to Truck
Transportation
Engineering Allowances
Other Allowances

Prepared By: Casillas, Harley E - 7/1/2025

Approved By: Worman, Aaron S - 8/6/2025

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Jackson	38S	03W	5	NE1/4SW1/4.	Willamette
O&C	Jackson	38S	03W	7	SE1/4NE1/4NE1/4SE1/4.	Willamette
O&C	Jackson	38S	03W	8	SW1/4NW1/4, SW1/4, NE1/4SE1/4, S1/2SE1/4.	Willamette
O&C	Jackson	38S	03W	9	S1/2SW1/4.	Willamette
O&C	Jackson	38S	03W	16	NW1/4NE1/4, NW1/4.	Willamette
O&C	Jackson	38S	03W	17	NE1/4, E1/2NW1/4, E1/2SW1/4, SE1/4.	Willamette
O&C	Jackson	38S	03W	20	LOT 1.	Willamette
O&C	Jackson	38S	03W	23	SE1/4SE1/4.	Willamette
O&C	Jackson	38S	03W	24	SW1/4NE1/4.	Willamette
O&C	Jackson	38S	03W	25	SW1/4.	Willamette
O&C	Jackson	38S	03W	26	LOT 1, LOT 10, SW1/4NE1/4.	Willamette
O&C	Jackson	38S	03W	35	LOT 1, LOT 3.	Willamette
O&C	Jackson	38S	03W	36	W1/2NW1/4, SE1/4NW1/4, N1/2SW1/4.	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	5,163.0	7,315.0	7,467.0	91,635	14,735	27,599
Totals	5,163.0	7,315.0	7,467.0	91,635	14,735	27,599

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	423.0	14.0	437.0	11.8

Comments:

Helicopter sale.

Logging Costs

Stump to Truck	\$2,737,046.35
Transportation	\$239,932.00
Road Construction	\$209,364.02
Maintenance/Rockwear	\$28,835.29
Road Use	\$0.00
Other Allowances	\$68,620.80
Total:	\$3,283,798.46
Total Logging Cost per MBF:	\$636.03

Utilization Centers

<u>Location</u>	<u>Distance</u>	<u>% of Net Volume</u>
Boise White City	21.0 miles	100%

Profit & Risk

Profit	11%
Risk	2%
Total Profit & Risk	13%

Tract Features

Quadratic Mean DBH	16.5 in
Average GM Log	72 bf
Average Volume per Acre	11.8 mbf
Recovery	69%
<u>Net MBF volume:</u>	
Green	5,163.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	7%
Average Yarding Slope	35%
Average Yarding Distance	300 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	14%
Average Yarding Slope	60%
Average Yarding Distance	150 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	79%
Average Yarding Slope	60%
Average Yarding Distance	2600 ft

Cruise

Cruise Completed	May 2025
Cruised By	Casillas, Knighton, Siemer
Cruise Method	
Units- PCMTRE Linear Feature- PCMTRE Roadside	
Vegetation Management- 3P	

Stumpage Computation

									Appraised Value (\$)
Douglas Fir	27,599	5,163.0	\$750.01	\$97.50	\$636.03	\$0.00	\$0.00	\$16.50	\$85,189.50
Totals	27,599	5,163.0							\$85,189.50

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir			4.0%	56.0%	34.0%	6.0%	

Unit: 8-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	226.0	325.0	332.0	1,149
Totals:	226.0	325.0	332.0	1,149

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	17.0
Right of Way	0.0
Total Acres:	17.0

Unit: 9-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	76.0	78.0	270
Totals:	53.0	76.0	78.0	270

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 16-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	160.0	229.0	235.0	811
Totals:	160.0	229.0	235.0	811

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	12.0
Right of Way	0.0
Total Acres:	12.0

Unit: 16-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	106.0	153.0	156.0	541
Totals:	106.0	153.0	156.0	541

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	8.0
Right of Way	0.0
Total Acres:	8.0

Unit: 17-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,184.0	1,700.0	1,740.0	6,013
Totals:	1,184.0	1,700.0	1,740.0	6,013

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	89.0
Right of Way	0.0
Total Acres:	89.0

Unit: 17-6

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	439.0	630.0	645.0	2,230
Totals:	439.0	630.0	645.0	2,230

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	33.0
Right of Way	0.0
Total Acres:	33.0

Unit: 17-7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	76.0	79.0	270
Totals:	53.0	76.0	79.0	270

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 17-8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	253.0	363.0	371.0	1,284
Totals:	253.0	363.0	371.0	1,284

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	19.0
Right of Way	0.0
Total Acres:	19.0

Unit: 17-9

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	80.0	115.0	117.0	405
Totals:	80.0	115.0	117.0	405

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	6.0
Right of Way	0.0
Total Acres:	6.0

Unit: 23-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	76.0	78.0	270
Totals:	53.0	76.0	78.0	270

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 24-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	133.0	191.0	195.0	676
Totals:	133.0	191.0	195.0	676

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	10.0
Right of Way	0.0
Total Acres:	10.0

Unit: 25-7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	772.0	1,108.0	1,134.0	3,919
Totals:	772.0	1,108.0	1,134.0	3,919

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	58.0
Right of Way	0.0
Total Acres:	58.0

Unit: 26-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	133.0	191.0	195.0	676
Totals:	133.0	191.0	195.0	676

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	10.0
Right of Way	0.0
Total Acres:	10.0

Unit: 35-7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	40.0	57.0	59.0	203
Totals:	40.0	57.0	59.0	203

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	3.0
Right of Way	0.0
Total Acres:	3.0

Unit: 36-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	466.0	669.0	684.0	2,365
Totals:	466.0	669.0	684.0	2,365

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	35.0
Right of Way	0.0
Total Acres:	35.0

Unit: 36-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	120.0	172.0	176.0	608
Totals:	120.0	172.0	176.0	608

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	9.0
Right of Way	0.0
Total Acres:	9.0

Unit: 36-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	93.0	134.0	137.0	473
Totals:	93.0	134.0	137.0	473

Net Volume/Acre: 13.3 MBF

Regeneration Harvest	0.0
Partial Cut	7.0
Right of Way	0.0
Total Acres:	7.0

Unit: LF-7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	560.0	740.0	744.0	3,705
Totals:	560.0	740.0	744.0	3,705

Net Volume/Acre: 8.0 MBF

Regeneration Harvest	0.0
Partial Cut	70.0
Right of Way	0.0
Total Acres:	70.0

Unit: LF-16

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	200.0	264.0	266.0	1,323
Totals:	200.0	264.0	266.0	1,323

Net Volume/Acre: 8.0 MBF

Regeneration Harvest	0.0
Partial Cut	25.0
Right of Way	0.0
Total Acres:	25.0

Unit: RVM-1B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	37.0	43.0	43.0	385
Totals:	37.0	43.0	43.0	385

Net Volume/Acre: 3.7 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	10.0
Total Acres:	10.0

Unit: RVM-2C

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	2.0	3.0	3.0	23
Totals:	2.0	3.0	3.0	23

Net Volume/Acre: 0.5 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	4.0
Total Acres:	4.0

Total Stump To Truck	Net Volume	\$/MBF
\$2,737,046.35	5,163.0	\$530.13

Stump to Truck: Falling, Bucking, Yarding, & Loading

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Helicopter	GM MBF	5,787.0	\$443.70	\$2,567,691.90	Heavy
Yoder	GM MBF	1,004.0	\$126.47	\$126,975.88	Linear Feature
Feller Buncher	GM MBF	371.0	\$110.67	\$41,058.57	Units 9-1 and 16-2 and RVM
Subtotal				\$2,735,726.35	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Subtotal				\$0.00	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Yoder	Hour	6.0	\$110.00	\$660.00	1 Additional Move
Feller Buncher	Hour	6.0	\$110.00	\$660.00	1 Additional Move
Subtotal				\$1,320.00	

Total	Net Volume	\$/MBF
\$239,932.00	5,163.0	\$46.47

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Boise White City	21.0	Douglas Fir	GM MBF	7,315.0	\$32.80	\$239,932.00	100%

Engineering Allowances

Total	Net Volume	\$/MBF
\$238,199.31	5,163.0	\$46.14

Cost Item	Total Cost
Road Construction:	\$209,364.02
Road Maintenance/Rockwear:	\$28,835.29
Road Use Fees:	\$0.00

Total	Net Volume	\$/MBF
\$68,620.80	5,163.0	\$13.29

Environmental Protection

Cost item	Total Cost
Seed and Mulch Skids and Landings	\$375.00
Waterbar Skids	\$520.00
Equipment Washing	\$1,825.00
Subtotal	\$2,720.00

Logging

Cost item	Total Cost
Skid Location	\$130.00
Skid Construction	\$750.00
Landing Construction	\$1,200.00
Yarding Un-Merch Material	\$11,230.80
Subtotal	\$13,310.80

Slash Disposal & Site Prep

Cost item	Total Cost
Hand Pile Burn	\$7,280.00
Lop and Scatter	\$8,910.00
Hand Pile Level 1	\$36,400.00
Subtotal	\$52,590.00

Comments:

L-Stip Yarding Un-Merch material Yoder and buncher logging cost averaged making it \$160.44

SD-5 -Lop and Scatter

SD-5- Hand Pile Level 1

SD-5- Hand Pile Burn

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT (BLM)**

Contract No.: ORM06-TS-2025.0008

Sale Name: Chopper Styx

Issuing Office: Medford District

**EXHIBIT B
SCALE SALE**

PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS

I. **Total Actual Purchase Price** - In accordance with Section 3.(f). of the contract, the Purchaser agrees to pay the Government for the timber sold under the contract in accordance with the following schedule and measurement requirements. Timber sold is comprised of Merchantable Timber, Merchantable Timber Remaining, and Other Timber as defined below. In the event an Extension of Time is approved, the prices per measurement unit are subject to readjustment (refer to Section 9 of the contract).

Schedule of Species, Measurement Units, and Prices		
Species - Merchantable logs	Measurement Unit	Price Per Measurement Unit
Douglas Fir	5,163 MBF	
Ponderosa Pine		\$375.48
Sugar Pine		\$375.48
Incense-Cedar		\$392.88

II. **Merchantable Timber** - All timber which can be cut into logs, which equal or exceed the following specifications, shall be considered merchantable timber. Purchaser shall pay for same in accordance with Sec. 3 of the contract at the unit prices shown in Section I of this Exhibit.

Schedule of Minimum Material Specifications			
Species and Products	Length	Diameter (inside bark at small end)	Net Scale
All Species	12 feet	10 inches	33 1/3% of gross volume of any log segment

If Purchaser elects to remove any logs which do not meet the above minimum log specifications and which have not been reserved to Government in Sec. 41 of the contract, such logs shall be scaled for their merchantable content as provided herein and be paid for in accordance with Sec. 2 and 3 of this contract and the value in Section 1 of this Exhibit.

III. **Merchantable Timber Remaining - Measurement Requirements** - The remaining volume of any merchantable sold timber on the contract area shall be determined as provided in Section 3.(g). of the contract. Purchaser shall pay for same in accordance with Sec. 3 of the contract at the unit prices shown in Section I of this Exhibit.

IV. **Scaling**

A. **Log Rule and Measurement** - All logs shall be scaled according to the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale. A Scaling Authorization Form (OR 5300-18) must be completed prior to beginning of operations. If sample log scaling is agreeable to the Purchaser and the Contracting Officer, the procedures will be agreed upon in writing regarding sample design, number of log sorts, expansion of sample volumes for computation of Merchantable Timber volume, etc.

B. **Scaling Service** - Log scaling services shall be provided and performed by BLM personnel or parties under contract to BLM.

1. All logs shall be scaled and volumes determined by BLM or a certified contract scaler.

2. The BLM scaler or contract scaler is designated to collect Eastside MBF scale data from all loads.

C. **Other Timber** - If any timber is of a species or size not listed in Section II of this Exhibit (above) or is of a quality different from merchantable timber described herein, the Authorized Officer shall establish volumes and values in accord with Standard BLM methods.

D. **Defect Caused by Abnormal Delay** - Scaling deductions made for rot, check or other defect resulting from abnormal delay in scaling caused by Purchaser shall be recorded separately and charged to the Purchaser in accordance with Section 3. of the contract.

E. **Log Presentation** - Purchaser shall present logs so that they may be scaled in an economical and safe manner in accordance with the Memorandum(s) of Agreement for Yard Scaling required in Section IV.G.5. of this Exhibit.

F. **Check Scale** - The Government will conduct check scales as set forth in Instruction Memorandum OR-2003-081, Item 2b (Administrative Check Scaler). Determinations as to volume of timber made by a government check scaler in conformance with the standards as set forth herein shall be final. All loads check scaled by BLM will be identified with the check scaler's initials legibly marked or painted in the face of the first log in each load. When such checks show a variance in scale in excess of acceptable standards, as set forth in Instruction Memorandum OR-2003-081, Item 2b (Administrative Check Scaler), in two or more consecutive check scales, an adjustment to the volume reported as scaled will be made by BLM. Such adjustments will be made based on the difference between available BLM check scales and the original scale during the period covered by the unsatisfactory check scales. Unless otherwise approved in writing by the Authorized Officer, the volume to which this difference will be applied will be 50 percent of the volume scaled between the last satisfactory check and the first unsatisfactory check, 100 percent of the volume scaled during the unsatisfactory check, and 50 percent of the volume between the last unsatisfactory check scale and the next satisfactory check scale.

G. Accountability

1. Purchaser shall notify the Authorized Officer five (5) days prior to starting or stopping of hauling operations performed under the contract.

2. **All logs will be painted and branded at the landing and accounted for in accordance with Sec. 44. (A)(1) of the contract. If Sale Area is within a State that maintains a log brand register, brands shall be registered with the State. Purchaser shall use assigned brand(s) exclusively on logs from this sale until the Authorized Officer releases the brand(s).** Each truck driver shall obtain a load receipt and a BLM scaler receipt from the Log Truck Ticket Book issued by the Authorized Officer and comply with the instructions specified on the cover of said book. While products are in transit, the truck driver shall display the load receipt and BLM scaler receipt on the bunk or wing log at the front of the load on the driver's side. All logs on each load shall be delivered to the destination listed on the woods receipt. The BLM scaler receipt shall be surrendered at the location of BLM scaling, the unloading location, or as requested by BLM. A designated area shall be identified at the yard scaling location for logs arriving during off hours. Logs arriving during off hours shall be left on the truck or may be off loaded to the designated area.

3. The Purchaser shall not haul logs from the contract area on weekends; Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas, and New Year's holidays; or outside the hours of 4:00 a.m. to 8:00 p.m. daily, unless otherwise approved in writing by the Authorized Officer or designated in the Approved Logging Plan (Refer to Section 42(B)(12) of the contract).

4. The Purchaser shall furnish BLM a map showing the route which shall be used to haul logs from the timber sale area to the scaling location. Such route shall be the most direct haul route between the two points, unless another route is approved by BLM. The route of haul may be changed only with advance notice to and approval by BLM. The haul route map shall be attached to the Approved Logging Plan.

5. All loads will be scaled at scale locations listed on the Scaling Authorization (Form OR 5300-18) as approved by the Authorized Officer. The Purchaser shall ensure that all scale site owners listed on the Scaling Authorization enter into a Memorandum of Agreement for Yard Scaling before requesting BLM approval of the Scaling Authorization. Areas for scaling BLM logs will be designated on the ground and identified on the yard map as required in the Memorandum(s) of Agreement for Yard Scaling.

6. Any removal of logs from loaded trucks before being accounted for and/or scaled as required by the contract shall be considered a willful trespass and render the Purchaser liable for damages under applicable law. Any payment made for purchase of such logs

shall be deducted from amount due because of trespass.

H. **Scaling Lost Products** - The value of lost loads shall be equal to the highest value load for the month in which the lost load is hauled regardless of where the highest value load is scaled. If no loads have been scaled in that month, value will be determined from the closest month in which loads were scaled.

V. **Estimated Volumes and Values** - The following volume estimates and calculations of value of timber sold are made solely as an administrative aid for determining payment amounts, when payments are due, the value of timber subject to any special bonding provisions, and other purposes specified in various portions of the contract. The cutting areas are shown on Exhibit A of the contract.

A. **Merchantable Timber Volume Removed from Contract Area** - The total volume of removed timber shall be determined using the Government's records of scaled volumes of timber skidded or yarded monthly, or a shorter period if agreed to by the Purchaser and Government, to loading points or removed from the contract area.

B. **Merchantable Timber Not Yet Removed from Contract Area** - The value of merchantable timber which has not been removed will be determined by multiplying the value per acre as shown below times the amount of acreage subject to the purpose of the value determination, as determined by the Authorized Officer:

Total Estimated Purchase Price And/Or Schedule of Volumes and Values for Merchantable Timber Not Yet Removed from Contract Area					
Cutting Area		Total Estimated Volume (MBF)		Total Estimated Purchase Price	
Cutting Area Number	Approximate Number of Acres	Volume per Acre	Total Volume	Value per Acre	Total Value
8-1	17	13	226		
9-2	4	13	53		
16-1	12	13	160		
16-2	8	13	106		
17-3	89	13	1184		
17-6	33	13	439		
17-7	4	13	53		
17-8	19	13	253		
17-9	6	13	80		
23-3	4	13	53		
24-1	10	13	133		
25-7	58	13	772		
26-4	10	13	133		
35-7	3	13	40		
36-1	35	13	466		
36-2	9	13	120		
36-3	7	13	93		
38-3-7 (LF)	70	8	560		
38-3-16 (LF)	25	8	200		
RVM-1 (Belle)	10	4	37		
RVM-2 (China)	4	1/2	2		
TOTAL	437		5163		

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USDI - BUREAU OF LAND MANAGEMENT - OSO

SCALING AUTHORIZATION

(Scaling - Contract Information)

(1) Original Registration (X)**Amendment ()****Cancellation ()****(2) To:** _____**(9) Date Submitted:** _____**(3) From:** _____**(10) Scale:** East-side (X)**(4) Logger:** _____**(11)** _____ State Branch

Registration #

(5) Begin Haul Date: _____**(12)** _____

Contract Scaler Brand Code #

(6) Purchaser: _____**(14) Brand****(7) Sale Name:** __Chopper Styx_____**(8) Contract #:** __ORM06-TS-2025.0008__**(13) Yellow Paint** Yes (X) No ()**Scale Location and Estimated Loads Per Day**

(15) Scale Location (Name)	# of Loads	Yard	Truck	Remote Check Scaling Location
1.				
2.				
3.				
4.				
5.				
6.				

(16) Minimum Product Specifications						(17) Use for Sample Sales Only		
Species	Length (Feet)	DIB Small End (Inches)	Net Scale % Gross Scale	Min. Net Scale Volume	Weight (Yes)	CONTRACT SCALER Brand Code	Sample Group Code	Frequency
All Species	8	5	33 1/3 %			#	A	(1: 1
						#	B	(1:
						#	C	(1:
						#	D	(1:
						#	E	(1:

(18) Add-Back Volume - Deductions Due to Delay Yes () No (X)	Remarks: <u>Always</u> when amending
CONTRACT SCALER DATE RECEIVED STAMP	

(19) _____
Purchaser Date_____
BLM Representative Date

OR 5300-18 (March 1993)

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MEMORANDUM OF AGREEMENT FOR YARD SCALING

DISTRICT: Medford_____ AREA: _Ashland_____

Scale Site Owner: _____

Scale Site Location: _____

Scale Site Authorized Representative/Phone #: _____

Purchaser: _____

Timber Sale Name: _Chopper Styx Timber Sale

BLM Contract No.: _ORM06-TS-2025.0008_____

BLM Authorized Officer(s) and Check Scaler(s)/Phone #s:_____

This Agreement covers the conditions necessary for an authorized yard scaling site. Unless otherwise agreed in writing by the Purchaser, Scale Site Owner, and the Bureau of Land Management (BLM), the following yard scaling requirements will be met and maintained. The BLM will periodically inspect the yard scaling facility for compliance. Approval of this Agreement does not automatically authorize scaling of BLM logs at this site. This Agreement, upon approval, will become part of the Approved Logging Plan as specified in Sec. 41 (____) of the contract. This Agreement will be reviewed annually.

1. Scaler's Office

- a. Suitable office space for the scaler's exclusive use shall be provided by the Scale Site Owner immediately adjacent to the scaling site. The office shall be equipped with adequate lights, heat, and a desk.
- b. Sanitary facilities, such as a chemical toilet, shall be provided by Scale Site Owner. The facility shall be readily available to the designated scaling area.

2. Safety

- a. Sufficient yard space shall be provided to prevent crowded, unsafe working conditions in and around the scaling area. The face of cold decks, truck and machine traffic, adjacent to scaling area, shall be no closer than forty (40) feet.
- b. Scaling bays shall allow a minimum safety margin of ten (10) feet between log ends of adjacent scaling bays.
- c. Log stackers shall not work in scaling bays that are currently being scaled by the scaler or check scaler. Log stackers shall keep a safe distance from scaler(s) when operating in adjacent scaling bays.
- d. Safe and suitable all-weather parking adjacent to the scaling area shall be provided for scalers and check scalers use.

3. Log Accountability

- a. It is the intent, by all parties to this Agreement, that all loads will be scaled the same day as delivered. Nevertheless, at least two loads will remain in place in the designated scaling bays until replaced by other loads or until released by a BLM Authorized officer.
- b. Unscaled loads of BLM logs shall only be spread for scaling within a designated scaling area as agreed upon by the BLM Authorized Officer.
- c. Each load requiring scaling shall be identified by its respective Load Receipt until scaled and removed from the scaling bay. Logs arriving during off hours shall be left on the truck, in which case the truck must remain in the yard overnight. Alternatively, the logs may be off loaded to the designated area, and shall remain in place until released by the BLM scaler or contract scaler. The outermost logs of the load must be identified with painted arrows on the face of the logs pointing into the load, and a strip must be painted over the entire load from one end log to the other end log.
- d. In other than single load bays, the outermost logs of the load must be identified with painted arrows on the face of the logs pointing into the load, to eliminate the possibility of logs being credited to an adjacent load.
- e. There shall be no bucking of BLM logs in the log yard prior to scaling. Logs to be rebucked after scaling will be removed to a specified location away from the designated scaling area prior to bucking. The bucking area will be designated on the yard map.
- f. If remanufactured pieces are transported out of the yard to other destinations, the Scale Site Owner will register and use a BLM approved catch brand or the original brand on all remanufactured log ends, and apply yellow paint in accordance with the Timber Sale Contract.
- g. In the event a BLM load is unaccompanied by a Load Receipt, or unidentified by log brand, the scaler shall scale the load and retain the original and all copies of the scale ticket, and immediately notify the BLM Authorized Officer. The load shall remain in place.

4. Operations

- a. The Scale Site Owner has designated above a Scale Site Authorized Representative to receive notices in regard to performance under this Agreement and to take related action.
- b. The Scale Site Owner shall provide a diagram (yard map) that shows yard layout, traffic flows, location of cold decks, designated scaling bays, loading and unloading areas, scaler's office, bucking area, and the designated parking area for the BLM vehicle. The yard map shall be attached to this Agreement.
- c. Logs shall be unloaded by a mechanical stacker, and spread in the scaling bay in a manner allowing the scaler to see defect indicators and measure individual logs safely and accurately. Logs shall not be bunched or jack-strawed in the bays.
- d. There shall be no permanent decking of logs within designated scaling area so as to infringe upon required space for scaling. If logs are pushed (decked) to the rear of scaling bay(s), they shall be removed from bays before the next work day. Subsequent loads spread for scaling shall be placed a safe distance from

the temporary deck.

e. Scaling under artificial lights will not be accepted.

f. BLM Authorized Officers and check scalers, whose duties include timber accountability and log export surveillance, are to be provided access to the yard to conduct inspections of the BLM timber at any time. Any visit to the yard scaling site by additional U.S. Government employees shall first be arranged through the Scale Site Authorized Representative.

g. Attempts to alter or influence a scaler's judgment and/or decision by persons other than the scaler's immediate supervisor may result in termination of this Agreement.

5. **Maintenance**

a. Scaling area shall be surfaced and treated with oil or water for the satisfactory control of dust and drainage for the control of mud.

b. Bark shall not be allowed to accumulate in the designated scaling area to the extent that accurate diameter measurement and/or scaler safety is jeopardized.

6. **Miscellaneous Clauses**

a. The BLM reserves the right to disapprove this yard scaling site at any time the above conditions are not being met. Loads shall then be scaled at other approved sites listed on the Scaling Authorization (Form OR 5300-18).

IN WITNESS WHEREOF, the parties hereto have signed this Agreement this _____ day of _____ 20____.

SCALE SITE OWNER: _____

BY: _____

TITLE: _____

TIMBER SALE PURCHASER: _____

BY: _____

TITLE: _____

BLM

BY: _____

TITLE: _____ Contracting Officer

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 8.0.0.22

Updated: 11/4/2022

Summary of All Roads and Projects

T.S. Contract Name: Chopper Styx TS Tract No: 2025.0008 Sale Date: 9/18/2025

Prepared by: Josh R Ph: 2258 Print Date: 7/28/2025 12:42:06 PM

Construction: 0.00 sta

Improve: 0.00 sta Renov: 468.88 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 0 acres	\$25,435.67
300 Excavation:	\$0.00
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	\$2,465.31
Culvert: 0.00 lf	DownSpout: 0.00 lf
PolyPipe: 0.00 lf	
500 Renovation:	\$34,997.04
Blading 7.40 mi	
700-1200 Surfacing:	\$112,063.83
Commercial Quarry Name: Commercial 3/4" -	2,885.00 LCY
Commercial Quarry Name: Commercial 4" Minus	1,245.00 LCY
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$6,109.85
Mechanical Brushing: 15.37 acres	
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$22,069.32
Mobilization: Const. \$6,223.00 Surf. \$0.00.....	\$6,223.00
Quarry Development:	\$0.00

Total: 5,162 mbf @ \$40.559/mbf = \$209,364.02

Notes:

Quantities shown are estimates only and not pay items.
Surfacing Quantities are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-05.00 Road Name: Mt Isabelle

Road Renovation: 0.71 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$356.16
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.03 acres	\$291.40
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$19.84 Surf. \$0.00.....	\$19.84
Quarry Development:	\$0.00
Total:	\$667.39

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-05.00 Road Name: Mt Isabelle

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: \$501.63/mi x 0.71 mi = \$356.16

Subtotal: \$356.16

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Light: \$282.91/acre x 1.03 acres = \$291.40

Subtotal: \$291.40

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.32% of total Costs = \$19.84

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$19.84

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$667.39

Road Number: 38-3-05.00 Mt Isabelle Continued

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-05.01 Road Name: China Forest Saddle

Road Renovation: 0.19 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$1,109.26
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$1,850.80
Blading 0.19 mi	
700-1200 Surfacing:	\$1,002.55
Quarry Name: Commercial 3/4" - 38.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.40 acres	\$188.60
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$127.17 Surf. \$0.00.....	\$127.17
Quarry Development:	\$0.00

Total: \$4,278.38

Notes:

Quantities shown are estimates only and not pay items.
 Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-05.01 Road Name: China Forest Saddle

Section 200 Clearing and Grubbing:

RVM

RVM Clearing 0.64 Acre x \$1,511.17/Acre = \$967.15

RVM Grubbing 0.05 Acre x \$2,842.27/Acre = \$142.11

Subtotal: \$1,109.26

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$923.61/mi x 0.19 mi = \$175.49

Scarification: \$1118.88/mi x 0.19 mi = \$212.59

Compaction: \$415.02/mi x 0.19 mi = \$78.85

Clean Culverts: \$501.63/mi x 0.19 mi = \$95.31

Water for Compaction

Watering for Compaction 0.19 Mile x \$450.03/Mile = \$85.51

Rdside Ditch/Shoulder repair

Shoulder Repair Backhoe - 1/4mile/hr 0.19 MILE x \$380.60/Mile = \$72.31

Shoulder Repair Grader - 1/2mile/hr 2 passes

0.19 Mile x \$682.88/Mile = \$129.75

Heavy Renovation

Tractor: D7 with rippers 4 hr x \$250.25/hr = \$1,001.00

Subtotal: \$1,850.80

Section 700-1200 Surfacing:

Commercial Quarry Name: Commercial 3/4" -

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
0.02mi	14ft	15ft	6in						

Rock Volume = 38.00 LCY

Purchase Price / Royalty: \$18.75/LCY x 38.00 LCY = \$712.50

Processing: \$1.20/LCY x 38.00 LCY = \$45.60

Compaction: \$1.38/LCY x 38.00 LCY = \$52.44

T11 & T27 Testing: \$0.10/LCY x 38.00 LCY = \$3.80

Basic Rock Haul cost: \$0.81/LCY x 38.00 LCY = \$30.78

Rock Haul -15% grades: \$1.21/LCY-mi x 38.00 LCY x 0.88 mi= \$40.46

Rock Haul St& Co Roads: \$0.54/LCY-mi x 38.00 LCY x 5.70 mi= \$116.96

Subtotal: \$1,002.55

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Medium: \$471.51/acre x 0.40 acres = \$188.60

Subtotal: \$188.60

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.04% of total Costs = \$127.17

Surfacing - 0.92% by rock volume = \$0.00

Subtotal: \$127.17

Quarry Development:

Based on 0.92% of total rock volume

Subtotal: \$0.00

Total: \$4,278.38

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-05.02 Road Name: Oregon Belle

Road Renovation: 1.28 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$7,815.57
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$7,726.99
Blading 1.28 mi	
700-1200 Surfacing:	\$23,919.63
Quarry Name: Commercial 3/4" - 880.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):2.84 acres	\$1,339.09
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$1,249.90 Surf. \$0.00.....	\$1,249.90
Quarry Development:	\$0.00

Total: \$42,051.19

Notes:

Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-05.02 Road Name: Oregon Belle

Section 200 Clearing and Grubbing:

RVM

RVM Clearing 4.57 Acre x \$1,511.17/Acre = \$6,906.05

RVM Grubbing 0.32 Acre x \$2,842.27/Acre = \$909.53

Subtotal: \$7,815.57

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$923.61/mi x 1.28 mi = \$1,182.22

Scarification: \$1118.88/mi x 1.28 mi = \$1,432.17

Compaction: \$415.02/mi x 1.28 mi = \$531.23

Clean Culverts: \$501.63/mi x 1.28 mi = \$642.09

Water for Compaction

Watering for Compaction 1.28 Mile x \$450.03/Mile = \$576.04

Rdside Ditch/Shoulder Repair

Shoulder Repair Backhoe - 1/4mile/hr 1.28 MILE x \$380.60/Mile = \$487.17

Shoulder Repair Grader - 1/2mile/hr 2 passes

1.28 Mile x \$682.88/Mile = \$874.09

Heavy Renovation

Tractor: D7 with rippers 8 hr x \$250.25/hr = \$2,002.00

Subtotal: \$7,726.99

Section 700-1200 Surfacing:

Commercial Quarry Name: Commercial 3/4" -

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
1.28mi	14ft	15ft	2in	9.4%					

Rock Volume = 880.00 LCY

Purchase Price / Royalty: \$18.75/LCY x 880.00 LCY = \$16,500.00

Processing: \$1.20/LCY x 880.00 LCY = \$1,056.00

Compaction: \$1.38/LCY x 880.00 LCY = \$1,214.40

T11 & T27 Testing: \$0.10/LCY x 880.00 LCY = \$88.00

Basic Rock Haul cost: \$0.81/LCY x 880.00 LCY = \$712.80

Rock Haul -15% grades: \$1.21/LCY-mi x 880.00 LCY x 1.54 mi= \$1,639.79

Rock Haul St& Co Roads: \$0.54/LCY-mi x 880.00 LCY x 5.70 mi= \$2,708.64

Subtotal: \$23,919.63

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Medium: \$471.51/acre x 2.84 acres = \$1,339.09

Subtotal: \$1,339.09

Road Number: 38-3-05.02 Oregon Belle Continued

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 20.09% of total Costs = \$1,249.90

Surfacing - 21.31% by rock volume = \$0.00

Subtotal: \$1,249.90

Quarry Development:

Based on 21.31% of total rock volume

Subtotal: \$0.00

Total: \$42,051.19

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-07.00 Road Name: Star Mine

Road Renovation: 0.92 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$5,173.92
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$4,114.84
Blading 0.92 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.90 acres	\$895.87
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$311.99 Surf. \$0.00.....	\$311.99
Quarry Development:	\$0.00
Total:	\$10,496.62

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-07.00 Road Name: Star Mine

Section 200 Clearing and Grubbing:

RVM

RVM Clearing 3.01 Acre x \$1,511.17/Acre = \$4,548.62

RVM Grubbing 0.22 Acre x \$2,842.27/Acre = \$625.30

Subtotal: \$5,173.92

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$923.61/mi x 0.92 mi = \$849.72

Scarification: \$1118.88/mi x 0.92 mi = \$1,029.37

Compaction: \$415.02/mi x 0.92 mi = \$381.82

Clean Culverts: \$501.63/mi x 0.92 mi = \$461.50

Water for Compaction

Watering for Compaction 0.92 Mile x \$450.03/Mile = \$414.03

Rdside Ditch/Shoulder Repair

Shoulder Repair Backhoe - 1/4mile/hr 0.92 Mile x \$380.60/Mile = \$350.15

Shoulder Repair Grader - 1/2mile/hr 2 passes

0.92 Mile x \$682.88/Mile = \$628.25

Subtotal: \$4,114.84

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Medium: \$471.51/acre x 1.90 acres = \$895.87

Subtotal: \$895.87

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Road Number: 38-3-07.00 Star Mine Continued

Mobilization:

Construction - 5.01% of total Costs = \$311.99

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$311.99

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$10,496.62

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-08.00 Road Name: Upper Oregon Belle

Road Renovation: 0.57 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$3,631.82
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$4,551.41
Blading 0.57 mi	
700-1200 Surfacing:	\$11,039.61
Quarry Name: Commercial 3/4" - 390.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.31 acres	\$617.68
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$607.79 Surf. \$0.00.....	\$607.79
Quarry Development:	\$0.00

Total: \$20,448.32

Notes:

Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-08.00 Road Name: Upper Oregon Belle

Section 200 Clearing and Grubbing:

RVM

RVM Clearing 2.14 Acre x \$1,511.17/Acre = \$3,233.90

RVM Grubbing 0.14 Acre x \$2,842.27/Acre = \$397.92

Subtotal: \$3,631.82

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$923.61/mi x 0.57 mi = \$526.46

Scarification: \$1118.88/mi x 0.57 mi = \$637.76

Compaction: \$415.02/mi x 0.57 mi = \$236.56

Clean Culverts: \$501.63/mi x 0.57 mi = \$285.93

Water for Compaction

Watering for Compaction 0.57 Mile x \$450.03/Mile = \$256.52

Rdside Ditch/Shoulder Repair

Shoulder Repair Backhoe - 1/4mile/hr 0.57 MILE x \$380.60/Mile = \$216.94

Shoulder Repair Grader - 1/2mile/hr 2 passes

0.57 Mile x \$682.88/Mile = \$389.24

Heavy Renovation

Tractor: D7 with rippers 8 hr x \$250.25/hr = \$2,002.00

Subtotal: \$4,551.41

Section 700-1200 Surfacing:

Commercial Quarry Name: Commercial 3/4" -

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
0.57mi	14ft	15ft	2in	8.9%					

Rock Volume = 390.00 LCY

Purchase Price / Royalty: \$18.75/LCY x 390.00 LCY = \$7,312.50

Processing: \$1.20/LCY x 390.00 LCY = \$468.00

Compaction: \$1.38/LCY x 390.00 LCY = \$538.20

T11 & T27 Testing: \$0.10/LCY x 390.00 LCY = \$39.00

Basic Rock Haul cost: \$0.81/LCY x 390.00 LCY = \$315.90

Rock Haul -15% grades: \$1.21/LCY-mi x 390.00 LCY x 2.47 mi= \$1,165.59

Rock Haul St& Co Roads: \$0.54/LCY-mi x 390.00 LCY x 5.70 mi= \$1,200.42

Subtotal: \$11,039.61

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Medium: \$471.51/acre x 1.31 acres = \$617.68

Subtotal: \$617.68

Road Number: 38-3-08.00 Upper Oregon Belle Continued

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 9.77% of total Costs = \$607.79

Surfacing - 9.44% by rock volume = \$0.00

Subtotal: \$607.79

Quarry Development:

Based on 9.44% of total rock volume

Subtotal: \$0.00

Total: \$20,448.32

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-16.00 Road Name: China Gulch

Road Renovation: 1.17 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$4,860.88
300 Excavation:	\$0.00
400 Drainage:	\$2,465.31
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$7,235.00
Blading 1.17 mi	
700-1200 Surfacing:	\$36,265.21
Quarry Name: Commercial 3/4" - 982.00 LCY	
Quarry Name: Commercial 4" Minus 370.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.84 acres	\$867.58
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$6,355.44
Mobilization: Const. \$1,778.28 Surf. \$0.00.....	\$1,778.28
Quarry Development:	\$0.00

Total: \$59,827.70

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	#TOs	<u>Width</u>	F.W.L	Taper	Other 250 LCY
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Road Number: 38-3-16.00 China Gulch Continued

Rock Volume = 250.00 LCY	
Purchase Price / Royalty: \$18.75/LCY x 250.00 LCY = \$4,687.50	
Processing: \$1.20/LCY x 250.00 LCY = \$300.00	
Compaction: \$1.38/LCY x 250.00 LCY = \$345.00	
T11 & T27 Testing: \$0.10/LCY x 250.00 LCY = \$25.00	
Basic Rock Haul cost: \$0.81/LCY x 250.00 LCY = \$202.50	
Rock Haul -15% grades: \$1.21/LCY-mi x 250.00 LCY x 1.17 mi= \$353.93	
Rock Haul St& Co Roads: \$0.54/LCY-mi x 250.00 LCY x 7.25 mi= \$978.75	
	Subtotal: \$36,265.21
Section 1300 Geotextiles:	
	Subtotal: \$0.00
Section 1400 Slope Protection:	
	Subtotal: \$0.00
Section 1800 Soil Stabilization:	
	Subtotal: \$0.00
Section 1900 Cattleguards:	
	Subtotal: \$0.00
Section 2100 Roadside Brushing:	
Mechanical Brushing	
RoadSide Brushing Medium: \$471.51/acre x 1.84 acres = \$867.58	
	Subtotal: \$867.58
Section 2300 Engineering:	
	Subtotal: \$0.00
Section 2400 Minor Concrete:	
	Subtotal: \$0.00
Section 2500 Gabions:	
	Subtotal: \$0.00
Section 8000 Miscellaneous:	
Construct Helicopter Landings	
Tractor: D7 with rippers 4 hr x \$250.25/hr = \$1,001.00	
Clearing 1 Acre x \$1,511.17/Acre = \$1,511.17	
Grubbing 1 Acre x \$2,842.27/Acre = \$2,842.27	
Construct Turn Around	
Tractor: D7 with rippers 4 hr x \$250.25/hr = \$1,001.00	
	Subtotal: \$6,355.44
Mobilization:	
Construction - 28.58% of total Costs = \$1,778.28	
Surfacing - 32.74% by rock volume = \$0.00	
	Subtotal: \$1,778.28
Quarry Development:	
Based on 32.74% of total rock volume	
	Subtotal: \$0.00
	Total: \$59,827.70

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-16.01 Road Name: West China Road

Road Renovation: 0.6 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$2,844.21
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$2,683.59
Blading 0.60 mi	
700-1200 Surfacing:	\$22,709.42
Quarry Name: Commercial 3/4" - 595.00 LCY	
Quarry Name: Commercial 4" Minus 250.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.05 acres	\$495.09
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$6,355.44
Mobilization: Const. \$1,074.87 Surf. \$0.00.....	\$1,074.87
Quarry Development:	\$0.00

Total: \$36,162.63

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-16.01 Road Name: West China Road

Section 200 Clearing and Grubbing:

RVM

RVM Clearing 1.60 Acre x \$1,511.17/Acre = \$2,417.87

RVM Grubbing 0.15 Acre x \$2,842.27/Acre = \$426.34

Subtotal: \$2,844.21

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$923.61/mi x 0.60 mi = \$554.17

Scarification: \$1118.88/mi x 0.60 mi = \$671.33

Compaction: \$415.02/mi x 0.60 mi = \$249.01

Clean Culverts: \$501.63/mi x 0.60 mi = \$300.98

Water for Compaction

Watering for Compaction 0.60 Mile x \$450.03/Mile = \$270.02

Rdside Ditch/Shoulder Repair

Shoulder Repair Backhoe - 1/4mile/hr 0.60 MILE x \$380.60/Mile = \$228.36

Shoulder Repair Grader - 1/2mile/hr 2 passes

0.60 Mile x \$682.88/Mile = \$409.73

Subtotal: \$2,683.59

Section 700-1200 Surfacing:

Commercial Quarry Name: Commercial 3/4" -

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
0.43mi	14ft	15ft	4in	10%					

Rock Volume = 595.00 LCY

Purchase Price / Royalty: \$18.75/LCY x 595.00 LCY = \$11,156.25

Processing: \$1.20/LCY x 595.00 LCY = \$714.00

Compaction: \$1.38/LCY x 595.00 LCY = \$821.10

T11 & T27 Testing: \$0.10/LCY x 595.00 LCY = \$59.50

Basic Rock Haul cost: \$0.81/LCY x 595.00 LCY = \$481.95

Rock Haul -15% grades: \$1.21/LCY-mi x 595.00 LCY x 0.53 mi= \$381.57

Rock Haul St& Co Roads: \$0.54/LCY-mi x 595.00 LCY x 7.25 mi= \$2,329.43

Commercial Quarry Name: Commercial 4" Minus

Comment: Rock for Helicopter Landings

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									250 LCY

Rock Volume = 250.00 LCY

Purchase Price / Royalty: \$18.75/LCY x 250.00 LCY = \$4,687.50

Processing: \$1.20/LCY x 250.00 LCY = \$300.00

Compaction: \$1.38/LCY x 250.00 LCY = \$345.00

T11 & T27 Testing: \$0.10/LCY x 250.00 LCY = \$25.00

Basic Rock Haul cost: \$0.81/LCY x 250.00 LCY = \$202.50

Rock Haul -15% grades: \$1.21/LCY-mi x 250.00 LCY x 0.75 mi= \$226.88

Rock Haul St& Co Roads: \$0.54/LCY-mi x 250.00 LCY x 7.25 mi= \$978.75

Subtotal: \$22,709.42

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Road Number: 38-3-16.01 West China Road Continued

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Medium: \$471.51/acre x 1.05 acres = \$495.09

Subtotal: \$495.09

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Helicopter Landing

Tractor: D7 with rippers 8 hr x \$250.25/hr = \$2,002.00

Clearing 1 Acre x \$1,511.17/Acre = \$1,511.17

Grubbing 1 Acre x \$2,842.27/Acre = \$2,842.27

Subtotal: \$6,355.44

Mobilization:

Construction - 17.27% of total Costs = \$1,074.87

Surfacing - 20.46% by rock volume = \$0.00

Subtotal: \$1,074.87

Quarry Development:

Based on 20.46% of total rock volume

Subtotal: \$0.00

Total: \$36,162.63

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-23.00 Road Name: Bishop Creek

Road Renovation: 0.77 mi 16 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$386.26
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.12 acres	\$316.86
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$21.54 Surf. \$0.00.....	\$21.54
Quarry Development:	\$0.00
Total:	\$724.65

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-23.00 Road Name: Bishop Creek

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Clean Culverts: $\$501.63/\text{mi} \times 0.77 \text{ mi} = \386.26

Subtotal: \$386.26

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Light: $\$282.91/\text{acre} \times 1.12 \text{ acres} = \316.86

Subtotal: \$316.86

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.35% of total Costs = \$21.54

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$21.54

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$724.65

Road Number: 38-3-23.00 Bishop Creek Continued

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-23.01 Road Name: Bishop Creek Mainlin

Road Renovation: 1.37 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$3,137.70
Blading 1.37 mi	
700-1200 Surfacing:	\$6,638.00
Quarry Name: Commercial 4" Minus 250.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.99 acres	\$562.99
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$4,178.72
Mobilization: Const. \$444.72 Surf. \$0.00.....	\$444.72
Quarry Development:	\$0.00

Total: \$14,962.13

Notes:

Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-23.01 Road Name: Bishop Creek Mainlin

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$923.61/\text{mi} \times 1.37 \text{ mi} = \$1,265.35$

Compaction: $\$415.02/\text{mi} \times 1.37 \text{ mi} = \568.58

Clean Culverts: $\$501.63/\text{mi} \times 1.37 \text{ mi} = \687.23

Water for Compaction

Watering for Compaction $1.37 \text{ Mile} \times \$450.03/\text{Mile} = \$616.54$

Subtotal: \$3,137.70

Section 700-1200 Surfacing:

Commercial Quarry Name: Commercial 4" Minus

Comment: Rock for Helicopter Landings

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									250 LCY

Rock Volume = 250.00 LCY

Purchase Price / Royalty: $\$18.75/\text{LCY} \times 250.00 \text{ LCY} = \$4,687.50$

Processing: $\$1.20/\text{LCY} \times 250.00 \text{ LCY} = \300.00

Compaction: $\$1.38/\text{LCY} \times 250.00 \text{ LCY} = \345.00

T11 & T27 Testing: $\$0.10/\text{LCY} \times 250.00 \text{ LCY} = \25.00

Basic Rock Haul cost: $\$0.81/\text{LCY} \times 250.00 \text{ LCY} = \202.50

Rock Haul -15% grades: $\$1.21/\text{LCY-mi} \times 250.00 \text{ LCY} \times 2.14 \text{ mi} = \647.35

Rock Haul St& Co Roads: $\$0.54/\text{LCY-mi} \times 250.00 \text{ LCY} \times 3.19 \text{ mi} = \430.65

Subtotal: \$6,638.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Light: $\$282.91/\text{acre} \times 1.99 \text{ acres} = \562.99

Subtotal: \$562.99

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Road Number: 38-3-23.01 Bishop Creek Mainlin Continued

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Helicopter Landing

Tractor: D7 with rippers 8 hr x \$250.25/hr = \$2,002.00

Clearing 0.5 Acre x \$1,511.17/Acre = \$755.59

Grubbing 0.5 Acre x \$2,842.27/Acre = \$1,421.14

Subtotal: \$4,178.72

Mobilization:

Construction - 7.15% of total Costs = \$444.72

Surfacing - 6.05% by rock volume = \$0.00

Subtotal: \$444.72

Quarry Development:

Based on 6.05% of total rock volume

Subtotal: \$0.00

Total: \$14,962.13

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-26.01 Road Name: Squires Peak

Road Renovation: 0.92 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$2,107.07
Blading 0.92 mi	
700-1200 Surfacing:	\$3,458.15
Quarry Name: Commercial 4" Minus 125.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.34 acres	\$379.10
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$4,178.72
Mobilization: Const. \$310.11 Surf. \$0.00.....	\$310.11
Quarry Development:	\$0.00

Total: \$10,433.14

Notes:

Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-26.01 Road Name: Squires Peak

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$923.61/\text{mi} \times 0.92 \text{ mi} = \849.72

Compaction: $\$415.02/\text{mi} \times 0.92 \text{ mi} = \381.82

Clean Culverts: $\$501.63/\text{mi} \times 0.92 \text{ mi} = \461.50

Water for Compaction

Watering for Compaction $0.92 \text{ Mile} \times \$450.03/\text{Mile} = \$414.03$

Subtotal: \$2,107.07

Section 700-1200 Surfacing:

Commercial Quarry Name: Commercial 4" Minus

Comment: Rock for Helicopter Landings

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									125 LCY

Rock Volume = 125.00 LCY

Purchase Price / Royalty: $\$18.75/\text{LCY} \times 125.00 \text{ LCY} = \$2,343.75$

Processing: $\$1.20/\text{LCY} \times 125.00 \text{ LCY} = \150.00

Compaction: $\$1.38/\text{LCY} \times 125.00 \text{ LCY} = \172.50

T11 & T27 Testing: $\$0.10/\text{LCY} \times 125.00 \text{ LCY} = \12.50

Basic Rock Haul cost: $\$0.81/\text{LCY} \times 125.00 \text{ LCY} = \101.25

Rock Haul -15% grades: $\$1.21/\text{LCY-mi} \times 125.00 \text{ LCY} \times 3.06 \text{ mi} = \462.83

Rock Haul St& Co Roads: $\$0.54/\text{LCY-mi} \times 125.00 \text{ LCY} \times 3.19 \text{ mi} = \215.33

Subtotal: \$3,458.15

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Light: $\$282.91/\text{acre} \times 1.34 \text{ acres} = \379.10

Subtotal: \$379.10

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Road Number: 38-3-26.01 Squires Peak Continued

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Helicopter Landing

Tractor: D7 with rippers 8 hr x \$250.25/hr = \$2,002.00

Clearing 0.5 Acre x \$1,511.17/Acre = \$755.59

Grubbing 0.5 Acre x \$2,842.27/Acre = \$1,421.14

Subtotal: \$4,178.72

Mobilization:

Construction - 4.98% of total Costs = \$310.11

Surfacing - 3.03% by rock volume = \$0.00

Subtotal: \$310.11

Quarry Development:

Based on 3.03% of total rock volume

Subtotal: \$0.00

Total: \$10,433.14

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chopper Styx TS Sale Date: 9/18/2025

Road Number: 38-3-26.02 Road Name: Squires Peak Spur

Road Renovation: 0.38 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$847.23
Blading 0.38 mi	
700-1200 Surfacing:	\$7,031.25
Quarry Name: Commercial 4" Minus 250.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.55 acres	\$155.60
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,001.00
Mobilization: Const. \$276.78 Surf. \$0.00.....	\$276.78
Quarry Development:	\$0.00

Total: \$9,311.86

Notes:

Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3-26.02 Road Name: Squires Peak Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$923.61/\text{mi} \times 0.38 \text{ mi} = \350.97

Compaction: $\$415.02/\text{mi} \times 0.38 \text{ mi} = \157.71

Clean Culverts (ea): $\$83.77/\text{ea} \times 2 \text{ ea} = \167.54

Water for Compaction

Watering for Compaction $0.38 \text{ Mile} \times \$450.03/\text{Mile} = \$171.01$

Subtotal: \$847.23

Section 700-1200 Surfacing:

Commercial Quarry Name: Commercial 4" Minus

Comment: Rock for Helicopter Landings

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									250 LCY

Rock Volume = 250.00 LCY

Purchase Price / Royalty: $\$18.75/\text{LCY} \times 250.00 \text{ LCY} = \$4,687.50$

Processing: $\$1.20/\text{LCY} \times 250.00 \text{ LCY} = \300.00

Compaction: $\$1.38/\text{LCY} \times 250.00 \text{ LCY} = \345.00

T11 & T27 Testing: $\$0.10/\text{LCY} \times 250.00 \text{ LCY} = \25.00

Basic Rock Haul cost: $\$0.81/\text{LCY} \times 250.00 \text{ LCY} = \202.50

Rock Haul -15% grades: $\$1.21/\text{LCY-mi} \times 250.00 \text{ LCY} \times 3.44 \text{ mi} = \$1,040.60$

Rock Haul St & Co Roads: $\$0.54/\text{LCY-mi} \times 250.00 \text{ LCY} \times 3.19 \text{ mi} = \430.65

Subtotal: \$7,031.25

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Light: $\$282.91/\text{acre} \times 0.55 \text{ acres} = \155.60

Subtotal: \$155.60

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Road Number: 38-3-26.02 Squires Peak Spur Continued

Subtotal: \$0.00

Section 8000 Miscellaneous:

Reconstruct Helicopter Landing

Tractor: D7 with rippers 4 hr x \$250.25/hr = \$1,001.00

Subtotal: \$1,001.00

Mobilization:

Construction - 4.45% of total Costs = \$276.78

Surfacing - 6.05% by rock volume = \$0.00

Subtotal: \$276.78

Quarry Development:

Based on 6.05% of total rock volume

Subtotal: \$0.00

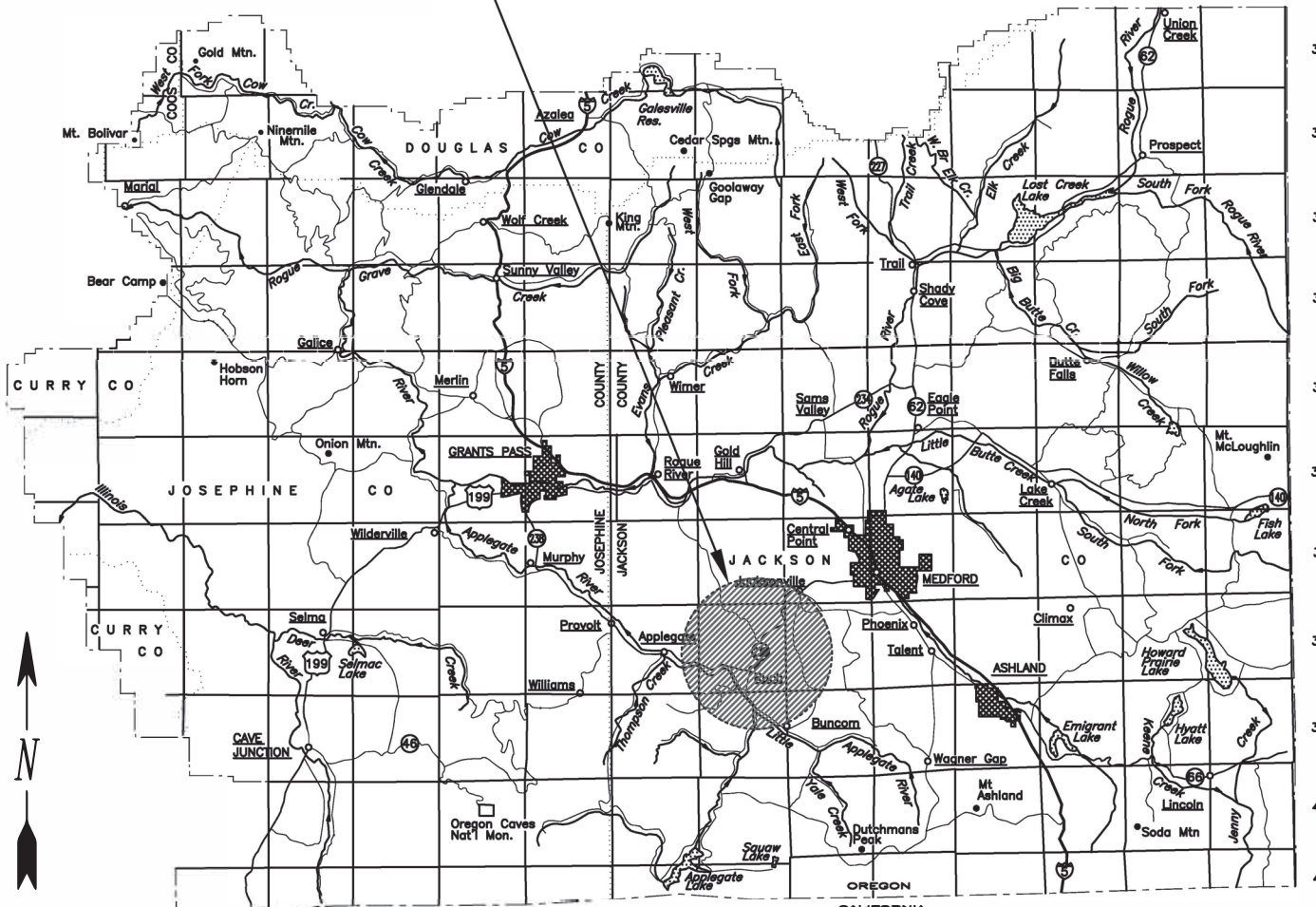
Total: \$9,311.86



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT
CHOPPER STYX TIMBER SALE
ORM06-TS-2025.0008

EXHIBIT C 1
HEET 1 OF 1

PROJECT LOCATION



11

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0 6 12

SCALE IN MILES



OREGON

Exhibit No.	Description
C 1	TITLE SHEET
C 2	ROAD RENOVATION MAPS
C 3	ESTIMATE OF QUANTITIES
C 4	SPECIFICATION SHEET
C 5	ROAD RENOVATION WORKLIST
C 6	TYPICAL ROAD RENOVATION DETAIL
C 7	ROADSIDE BRUSHING DETAILS
C 8	TYPICAL ROAD SURFACING SECTIONS
C 9	TYPICAL ARMORED WATER DIP CONSTRUCTION
C 0	HELICOPTER LANDING SITES CONSTRUCTION
C 11	SPECIAL PROVISIONS
C	TIMBER SALE ROAD SPECIFICATIONS
D1	ROAD MAINTENANCE SPECIFICATIONS
D2	ROAD MAINTENANCE MAPS
D3	ROAD MAINTENANCE ESTIMATE OF QUANTITIES
D4	PURCHASER MAINTENANCE WORKLIST

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
TITLE SHEET OREGON			
MEDFORD			
DESIGNED	JOSHUA ROBESON	Digitally signed by JOSHUA ROBESON Date: 2025.09.04 11:21:46 -0700	
REVIEWED	MICHAEL VANDERBERG	Digitally signed by MICHAEL VANDERBERG Date: 2025.09.04 12:25:48 -0700	
APPROVED	MICHAEL VANDERBERG	Digitally signed by MICHAEL VANDERBERG Date: 2025.09.04 12:27:49 -0700	
DRAWN: JWR		SCALE: S SHOWN	
DATE: March 2025		SHEET OF	
DRAWING NO. ORM06-TS-2025.0008.C1			

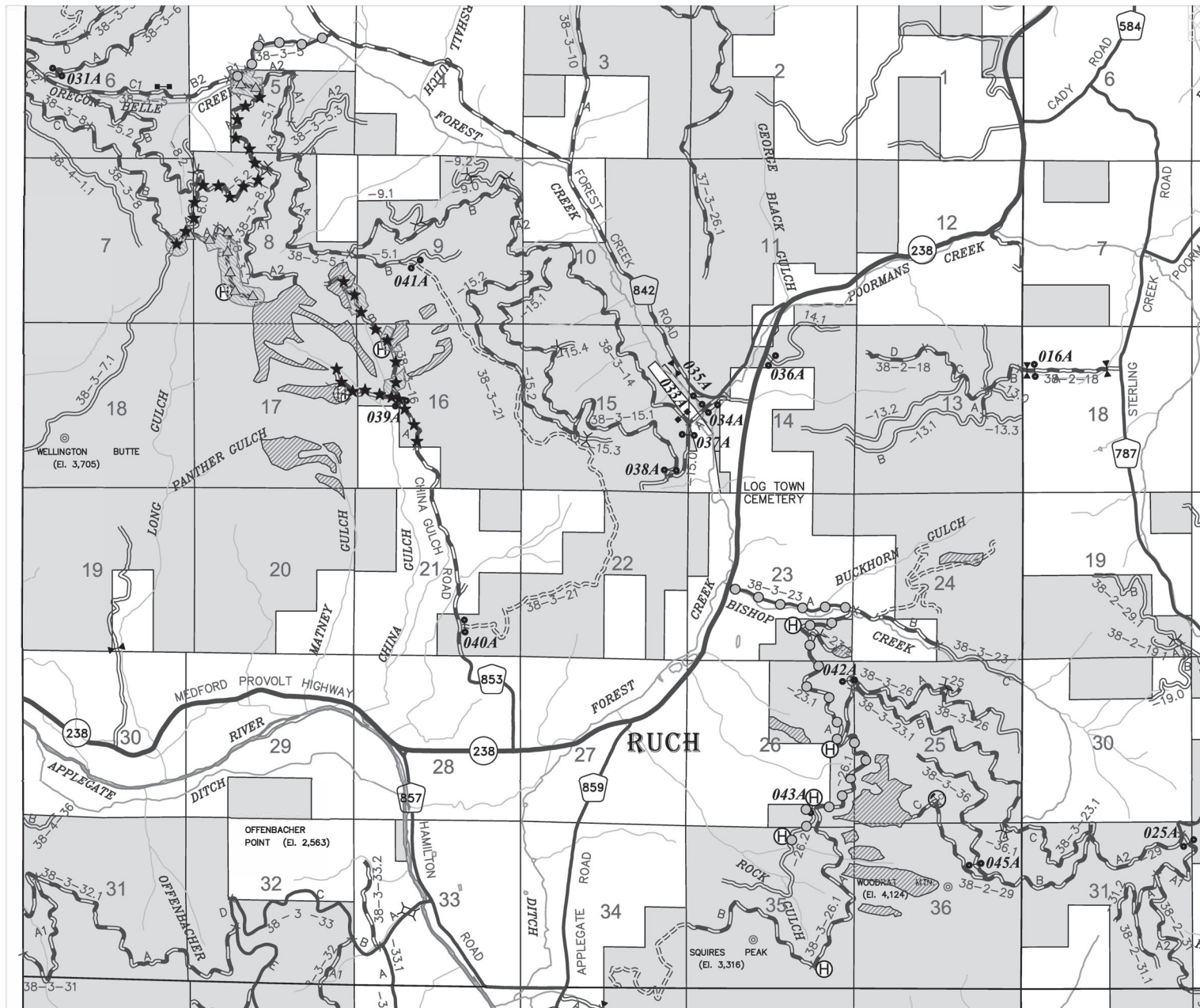
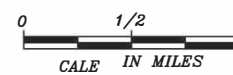
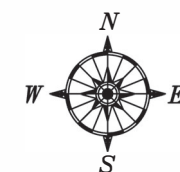
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CHOPPER STYX TIMBER SALE
ROAD LOCATION MAP
EXHIBIT C-2; PAGE 1 OF 1

U.S.D.I. BLM MEDFORD DISTRICT
T.38S., R.3W. WILL. ER.

- ROAD PROJECTS**
- EXISTING ROAD
 - EXISTING PAVED RO
 - EXISTING PRIMITIVE RO
 - ○ ROAD TO BE RENOVATED
 - △ △ ROAD TO BE RENOVATED WITH
ROADSIDE VEGETATION
MANAGEMENT
 - ★ ★ ROAD TO BE RENOVATED AND
ROCKED WITH ROADSIDE
VEGETATION MANAGEMENT

- BLM LAND
- TS UNITS
- LINEAR UNITS



R.3W.

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ROAD NUMBER	FROM	TO	LENGTH	CLEARING	GRUBBING	EXCAVATION		DRAINAGE						RENOVATION					AGGREGATE**						MISCELLANEOUS					
						ROCK	COMMON	CORRUGATED METAL PIPE						CONSTRUCT/ RECONSTRUCT ARMORED WATER DIP	SCARIFYING, BLADING, WATERING, & ROLLING	DITCH AND/OR CULVERT CLEANING	DITCH AND/OR SLOPE REPAIR	SLIDE REMOVAL	ADDITIONAL RENOVATION	4" MINUS*** CRUSHED ROCK	CRUSHED ROCK (Grade C)	USE STOCKPILE (Grade C-1)	PLACE STOCKPILE (Grade C-1)	SOIL STABILIZATION	ROADSIDE BRUSHING	INSTALL BMP AT HYDROLOGIC POINT OF CONCERN	REMOVE BARRICADE	CONSTRUCT TURNAROUND	CONSTRUCT/ RECONSTRUCT HELICOPTER LANDING	ROADSIDE VEGETATION MANAGEMENT
								SIZE			DOWNSPOUT		INLET/OUTLET REPAIR																	
								18"	24"	36"	HALF ROUND																			
											18"	24"																		
SPECIFICATION NO.				200		300		400						500					900	1200	1200	1200	1800	2100						
UNIT	MP/STA	MP/STA	MILE/STA	ACRE		C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	EA	EA	MILE	MILE	MILE	CY	MILE	C.Y.	C.Y.	C.Y.	C.Y.	ACRE	ACRE	EA	EA	EA	EA	MILE	
38-3-5.00	0.00	0.71	0.71												0.71									1.03						
38-3-5.01	0.00	0.19	0.19	0.64	0.05									0.19	0.19	0.19		0.02						0.40					0.19	
38-3-5.02	0.00	1.28	1.28	4.57	0.32									1.28	1.28	1.28		1.28						2.84					1.28	
38-3-7.00	0.00	0.92	0.92	3.01	0.22									0.92	0.92	0.92								1.90					0.92	
38-3-8.00	0.00	0.57	0.57	2.14	0.14									0.57	0.57	0.57		0.57						1.31					0.57	
38-3-16.00	0.00	1.17	1.17	2.69	0.28								3	1.17	1.17	1.17		0.10						1.84			1	1	1.17	
38-3-16.01	0.00	0.60	0.60	1.60	0.15									0.60	0.60	0.60								1.05				1	0.60	
38-3-23.00	0.00	0.77	0.77												0.77									1.12						
38-3-23.01	0.00	1.37	1.37											1.37	1.37									1.99				2		
38-3-26.01	0.00	0.92	0.92											0.92	0.92									1.34				1		
38-3-26.02	0.00	0.38	0.38											0.38	0.38									0.55				1		

* For informational use only, quantities shown are not pay items.

** Indicate gradation.

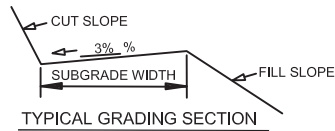
*** Armored water dip aggregate quantities calculated at 40 CY per AWD and are accounted for in aggregate column under 4" minus grade A.

ITEM 900	
<u>SIZE</u>	<u>GRADE</u>
4 inch	(A)
3 inch	(B)
2 inch	(C)
1 1/2 inch	(D)

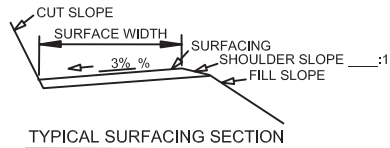
ITEM 1200	
<u>SIZE</u>	<u>GRADE</u>
1 1/2inch	C,C-1
1 inch	D,F
3/4inch	E,E-1 (Stockpile Rock)



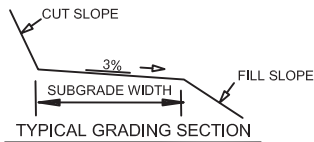
REV. NO.		APPROV.	
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON			
ESTIMATE OF QUANTITIES*			
DRAWN: JWR		SCALE: NONE	
DATE: August 2025		SHEET: 1 OF 1	
DRAWING NO. ORM06.2025.0008.C3pg1			

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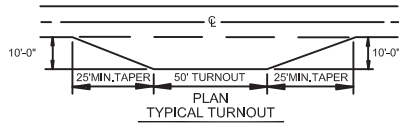
TYPE 1



TYPE 2



TYPE 3

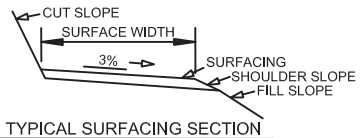


NOTES

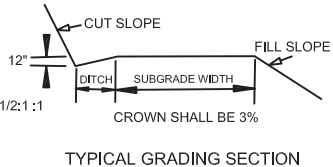
1. EXTRA SUBGRADE WIDTHS
ADD TO EACH FILL SHOULDER 1FT.FOR
FILLS OF 1-6FT. & 2FT.FOR FILLS OVER
6FT. WIDEN THE INSIDE SHOULDER OF ALL
CURVES AS FOLLOWS:
WHEN THE DEGREE OF CURVE EQUALS
7-21 ADD 1FT.
22-35 ADD 2FT.
36-48 ADD 3FT.
49-64 ADD 4FT.
65-96 ADD 5FT.

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

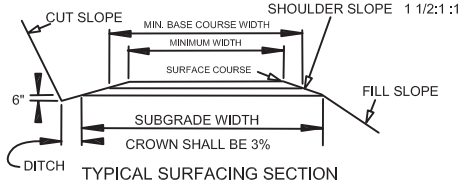
2. SURFACING TYPE
- A. PIT RUN ROCK MATERIAL.
- B. GRID ROLLED ROCK MATERIAL.
- C. SCREENED ROCK MATERIAL.
- D. CRUSHED ROCK MATERIAL.



TYPE 4



TYPE 5



TYPE 6

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

REV. NO.	DESCRIPTION	DATE	APPROV.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT MEDFORD, OREGON

SPECIFICATION SHEET

DRAWN: Josh Robeson	SCALE NONE
DATE: April 2025	SHEET 1 OF 1
DRAWING NO. ORM06.2025.0008.C4	

CHOPPER STYX TIMBER SALE

Road Renovation Worklist

Renovation/Construction: The work in this worklist consists of road work to be performed by the Purchaser's Representative and/or Contractor on the roads **prior** to its use. This work includes, but not limited to; clearing and grubbing, excavation for roads and landings, compacting, watering, blading and/or rolling the road surface, cleaning/constructing ditches where needed, cleaning or enlarging catch basins and outlets, replacing/installing new culverts, cleaning the entire barrel of all culverts, maintaining water dips (WDs), maintaining/constructing armored water dips (AWDs), spot rocking, road surfacing, seeding and mulching, constructing water bars, and constructing barricades. Remove all down trees from road surface, ditch lines, culvert catch basins, and within brushing limits. All culvert replacements shall be capped with 20 cubic yards of approved crushed aggregate (unless otherwise noted in the worklist). All water dips requiring armoring shall be constructed using 40 cubic yards of 4" minus screened rock. All turnout and truck turnaround widths are in addition to subgrade widths. All road work shall comply with the contract Special Provisions, Specifications, and Exhibits.

Roadside Brushing: This consists of road work to be performed on the road prior to its use. The work includes, but is 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 within 4' of the inlet and outlet from each Corrugated Metal Pipe (CMP), removing brush, limbs, and trees along the roadway to improve sight distance. Disposal from roadside brushing shall be lop and scatter or by chipping. Debris shall not be allowed to accumulate in concentrations but shall be further reduced or removed. Concentrations will be defined as any debris, limbs or branches touching each other or piled on top of each other or any material sticking up over 2 feet in elevation above the ground. Cut trees or debris shall not be allowed to stand or lean against other standing uncut trees or brush. Such "hang ups" shall be removed and scattered down slope. Debris shall be cut so that the length of limbs, downed pole, hardwoods, or brush does not exceed eight feet. Brush shall be cut to meet regular specifications in Section 2100. While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. Use of excavators for brush removal will be at the discretion of the Authorized Officer.

Roadside Vegetation Management: This work includes removing merchantable and non-merchantable trees at a variable distance horizontally from the centerline of the drainage ditch up the vertical slope to the top edge plus five feet horizontally upslope from top edge of the vertical slope, and 6 horizontal feet from the outside shoulder of the road prism as designated in the work list and on Exhibit C-2 (Roads Location Maps). Vegetation to be cut and disposed of will be from 6 inches diameter at breast height and up. All roadside vegetation maintenance sections shall be posted, flagged, and staked with beginning and ending mileposts. All merchantable roadside trees within timber sale units shall be cut unless painted as described in Sec. 43 B. IR-1 (reserve trees). All stumps that may hinder road maintenance operations including road blading operations and snow plowing shall be removed. Any damage that occurs to the road shall be repaired and re-compacted. Any loose soil 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. All remaining brush and limbs from tree removal operations shall be either chipped or piled in locations designated by the Authorized Officer below the road in accordance with clearing and grubbing methods and/or roadside brushing disposal methods in Exhibit C-12 (Chopper Styx Road Specifications, Sections 200 and 2100).

Temporary roads constructed shall be fully decommissioned at the completion of timber harvest activities. See Exhibit D for decommissioning.

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

Jct. – Junction
Cy – Cubic Yards

Agg. – Aggregate

Nat. – Natural

Ft. – Feet

38-3-05.00 Road – Mt Isabelle – BST – Sub: 14Ft – Ditch: 3Ft – X-Sect: Crowned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with County Road 824 Forest Creek. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing.
0.07	Jct. with private drive to right.
0.08	Existing cattleguard.
0.10	Existing culvert.
0.13	Existing culvert.
0.23	Existing culvert.
0.29	Existing cattleguard.
0.50	Existing culvert.
0.53	Existing culvert.
0.62	Existing culvert.
0.64	Existing culvert. (Drainage fully plugged)
0.66	Property Line
0.70	Existing culvert. (Drainage fully plugged)
0.71	Jct. with 38-3W-05.01 to left. End road renovation.

38-3-05.01 Road – China Forest Saddle – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Crowned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-05.00. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing. Begin roadside vegetation maintenance. (See Exhibit C7; Roadside brushing and roadside vegetation maintenance details).
0.02	Existing cattleguard.
0.03	Existing culvert.
0.10	Existing culvert. (Drainage fully plugged)
0.17	Existing culvert. Heavy road repair between 0.17 - 0.19. Begin placing aggregate from Commercial Source at 6" depth.
0.19	Jct. with 38-3W-05.02 to right. End placing aggregate. End roadside vegetation maintenance. End road renovation.

38-3-05.02 Road – Oregon Belle – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-05.01. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside

	culverts; and roadside brushing. Begin roadside vegetation maintenance. (See Exhibit C7; Roadside brushing and roadside vegetation maintenance details). Begin placing 880 CY of crushed aggregate from Commercial Source for spot rocking. Begin re-establishing ditch and heavy road repair between.
0.06	Existing culvert.
0.16	Existing culvert. (Drainage partially plugged)
0.20	Existing culvert. (Drainage partially plugged)
0.25	Existing culvert. (Drainage fully plugged)
0.29	Existing culvert. (Drainage partially plugged)
0.37	Existing culvert.
0.43	Existing culvert. (Drainage partially plugged)
0.47	Jct. with 38-3W-05.04 to right.
0.50	Existing culvert.
0.55	Existing culvert.
0.61	Existing culvert.
0.67	Jct. with 38-3W-08.01 to left.
0.68	Existing culvert. (Drainage fully plugged)
0.76	Existing culvert.
1.02	Existing culvert. (Drainage partially plugged)
1.05	Existing culvert. (Drainage partially plugged)
1.27	Existing culvert. (Drainage partially plugged)
1.28	Jct. with 38-3W-08.00 to left. End placing aggregate for spot rocking. End End roadside vegetation maintenance. End road renovation.

38-3-07.00 Road – Star Mine – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-08.00. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing. Begin roadside vegetation maintenance. (See Exhibit C7; Roadside brushing and roadside vegetation maintenance details).
0.17	Existing culvert. (Drainage partially plugged)
0.22	Existing culvert. (Drainage partially plugged)
0.24	Existing culvert. (Drainage partially plugged)
0.32	Existing culvert. (Drainage partially plugged)
0.39	Existing culvert. (Drainage fully plugged)
0.45	Existing culvert. (Drainage fully plugged)
0.52	Existing culvert. (Drainage fully plugged)
0.73	Existing Quarry to right. Existing helicopter landing.
0.92	End roadside vegetation maintenance. End road renovation.

38-3-08.00 Road – Upper Oregon Belle – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-05.02. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing. Begin roadside vegetation maintenance. (See Exhibit C7; Roadside brushing and roadside vegetation maintenance details Begin placing 390 CY of

	crushed aggregate from Commercial Source for spot rocking. Begin re-establishing ditch and heavy road repair between.
0.04	Existing culvert. (Drainage partially plugged)
0.10	Existing culvert. (Drainage fully plugged)
0.17	Existing culvert.
0.25	Existing culvert. (Drainage partially plugged)
0.32	Existing culvert. (Drainage partially plugged)
0.40	Existing culvert. (Drainage fully plugged)
0.57	Jct. with 38-3W-07.00 to left. End placing aggregate for spot rocking. End roadside vegetation maintenance. End road renovation.

38-3-16.00 Road – China Gulch – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with County Road N°. 853 China Gulch Road at BLM Property Boundary. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing. Begin roadside vegetation maintenance. (See Exhibit C7; Roadside brushing and roadside vegetation maintenance details). Begin placing aggregate from Commercial Source at 4" depth.
0.01	Jct. with private drive to left.
0.02	Existing culvert.
0.10	Existing culvert.
0.19	Existing culvert.
0.25	Existing culvert. (Jack open inlet)
0.29	Jct. with private drive to left.
0.30	Existing culvert.
0.31	Existing BLM gate.
0.32	Jct. with 38-3W-16.01 to left.
0.38	Existing water dip, maintain to drain.
0.43	Existing water dip, maintain to drain.
0.46	Existing culvert. (Drainage partially plugged)
0.52	Reconstruct existing water dip armor with 40 CY 4 inch minus, open to drain. Heavy road repair between 0.52 - 0.60.
0.60	Reconstruct existing water dip armor with 40 CY 4 inch minus, open to drain.
0.67	Existing water dip, maintain to drain.
0.71	Construct helicopter landing. Surface helicopter landing with 250 CY of 4" minus to a 4" compacted depth to facilitate wet season use. End placing aggregate.
0.78	Existing culvert.
0.84	Existing water dip, maintain to drain.
0.90	Existing water dip, maintain to drain.
0.96	Existing water dip, maintain to drain.
1.13	Existing culvert.
1.15	Construct water dip armor with 40 CY 4 inch minus, open to drain. Grade road to drain for 100'.
1.17	Construct turn around. End road renovation.

38-3-16.01 Road – West China Road – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-16.00. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing. Begin roadside vegetation maintenance. (See Exhibit C7; Roadside brushing and roadside vegetation maintenance details). Begin placing aggregate from Commercial Source at 4" depth.
0.05	Existing culvert.
0.13	Existing culvert.
0.19	Existing culvert. (Drainage fully plugged)
0.27	Existing culvert.
0.43	Construct helicopter landing. Surface helicopter landing with 250 CY of 4" minus to a 4" compacted depth to facilitate wet season use. End placing aggregate.
0.51	Existing culvert. (Drainage partially plugged)
0.55	Existing culvert.
0.60	Existing turn around. End road renovation.

38-3-23.00 Road – Bishop Creek – BST – Sub: 16Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with Medford Provolt State Highway 238. Begin road renovation which includes reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing.
0.01	Existing cattle guard.
0.13	Existing culvert.
0.21	Existing cattle guard.
0.42	Existing culvert.
0.46	Existing culvert.
0.58	Existing squash culvert.
0.77	Jct. 38-3W-23.01 to right. End road renovation.

5

38-3-23.01 Road – Bishop Creek Mainline– BST – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-23.00. Begin road renovation which includes reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing.
0.03	Existing culvert.
0.05	Existing cattle guard.
0.20	Existing culvert.
0.38	Reconstruct helicopter landing. Surface helicopter landing with 125 CY of 4" minus to a 4" compacted depth to facilitate wet season use.
0.45	Jct. with 38-3W-23.02 to left.
0.46	Existing culvert.
0.69	Existing culvert.
0.82	Existing culvert.
1.03	Existing culvert w/ downspout.
1.16	Existing culvert w/ downspout.
1.37	Jct. with 38-3W-26.01 to right. Construct helicopter landing. Surface helicopter landing

with 125 CY of 4" minus to a 4" compacted depth to facilitate wet season use. End road renovation.

38-3-26.01 Road – Squires Peak – Nat. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

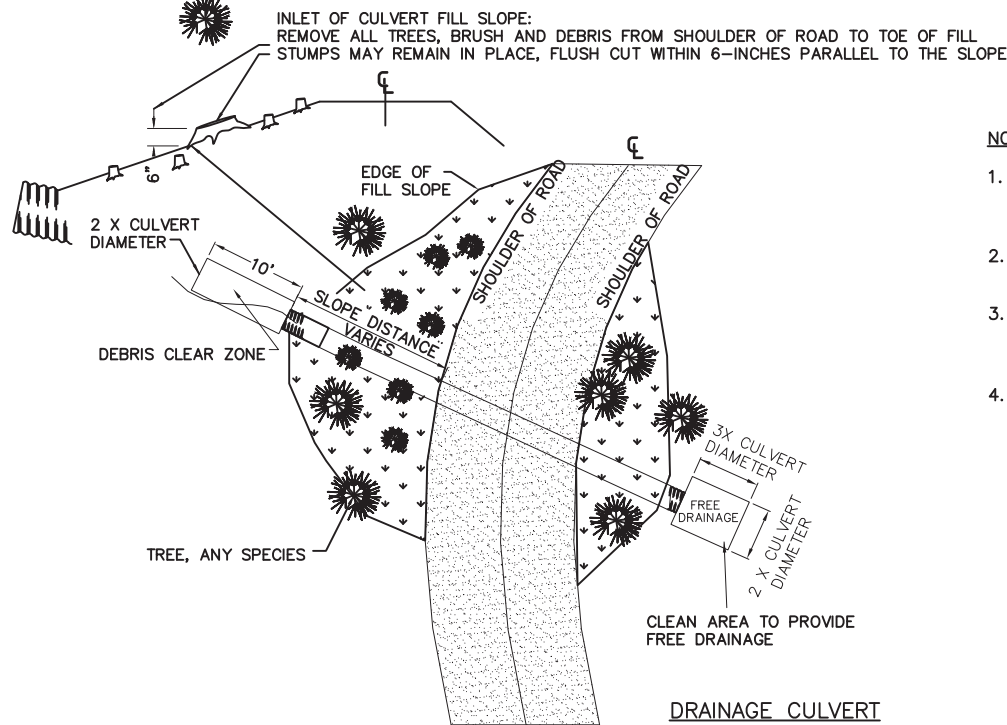
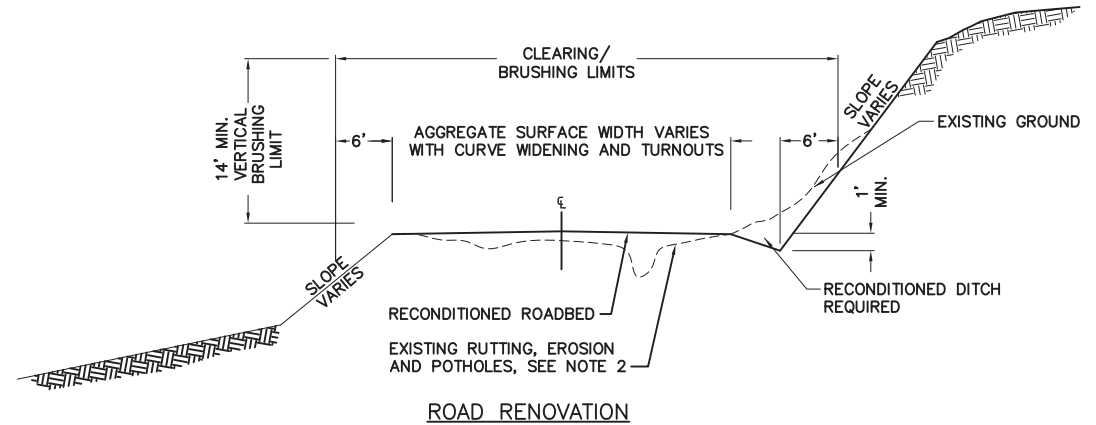
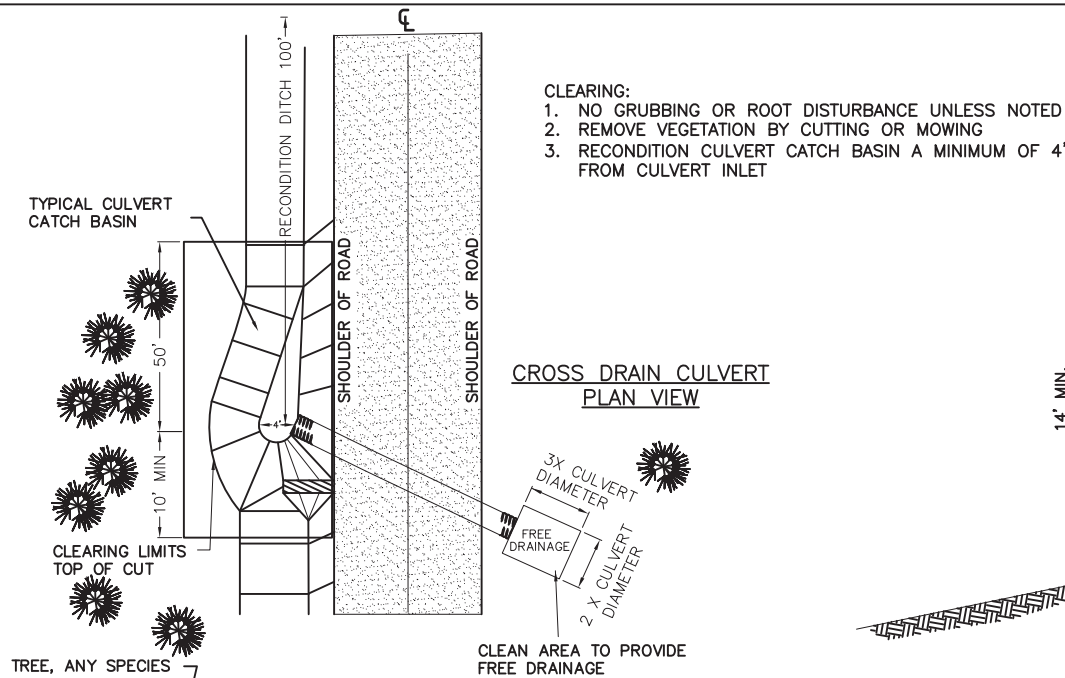
<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-23.01. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing.
0.15	Existing culvert.
0.34	Existing culvert.
0.40	Existing culvert.
0.44	Existing culvert.
0.46	Existing culvert.
0.57	Existing water dip, maintain to drain.
0.61	Existing culvert.
0.75	Existing culvert.
0.78	Existing water dip, maintain to drain.
0.91	Existing culvert.
0.92	Jct. with 38-3W-26.02 to right. Construct helicopter landing. Surface helicopter landing with 125 CY of 4" minus to a 4" compacted depth to facilitate wet season use. End road renovation.
2.29	Existing helicopter landing.

38-3-26.02 Road – Squires Peak Spur – Nat. – Sub: 14Ft – Ditch: 0Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-26.01. Begin road renovation, which includes reshaping road surface (blading, watering, and rolling), to road specifications, and roadside brushing.
0.02	Existing gate.
0.04	Existing water dip, maintain to drain.
0.10	Existing water dip, maintain to drain.
0.16	Existing culvert.
0.22	Existing water dip, maintain to drain.
0.27	Existing water dip, maintain to drain.
0.35	Existing culvert.
0.38	Reconstruct helicopter landing. Surface helicopter landing with 250 CY of 4" minus to a 4" compacted depth to facilitate wet season use. End road renovation.

EXHIBIT C 6

SHEET 1 OF 1



- CLEARING:**
1. NO GRUBBING OR ROOT DISTURBANCE UNLESS NOTED
 2. REMOVE VEGETATION BY CUTTING OR MOWING
 3. RECONDITION INLET CHANNEL, REMOVE ALL DEBRIS AND OBSTRUCTION A MINIMUM OF 2 X CULVERT DIAMETER & 10 FEET LONG

NOTES:

1. RECONDITION ROADS AS SHOWN AND IN ACCORDANCE WITH SECTION 500 OF THE SPECIFICATIONS. REQUIRED RECONDITIONING INCLUDES CURVE WIDENING AND TURNOUTS. DITCH RECONDITIONING INCLUDES CLEANING CULVERT INLETS AND OUTLETS.
2. WHERE RUTTING, EROSION AND POTHOLES EXIST, SCARIFY TO DEPTH OF RUT/EROSION/POTHOLE, BLADE, SHAPE AND COMPACT EXISTING AGGREGATE OR NATIVE SURFACE MATERIAL.
3. REMOVE AND DISPOSE OF SLIDE, DITCH, AND CATCH BASIN MATERIAL. DISPOSAL SITE LOCATIONS AS STAKED ON THE GROUND. DISPOSAL/WASTE SITES SHALL BE APPROVED BY THE AUTHORIZED OFFICER PRIOR TO USE. SEE VICINITY MAP FOR DISPOSAL SITE LOCATIONS/ OR AS STAKED ON GROUND.
4. MATCH EXISTING TRAVEL WAY CROSS SLOPE. THE TRAVELED WAY SHALL BE SHAPED TO THE EXISTING CROSS SLOPE. EXISTING ROADS WHICH ARE CROWNED SHALL BE AT 3% FROM CENTERLINE ROAD, INSLOPED AS IS, OUTSLOPED AS IS.

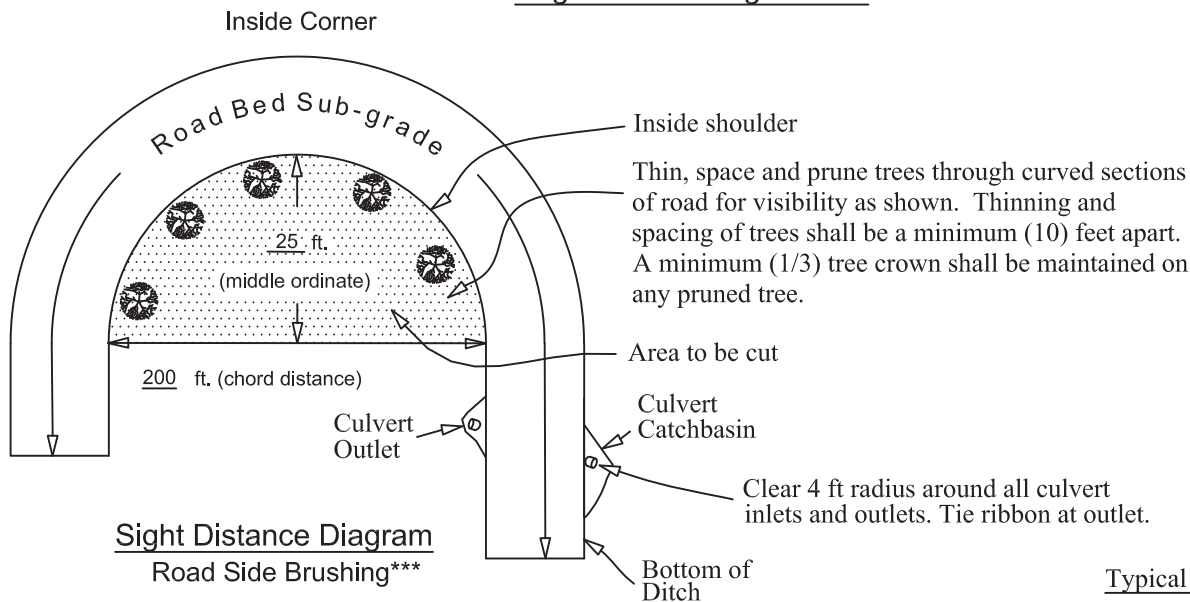
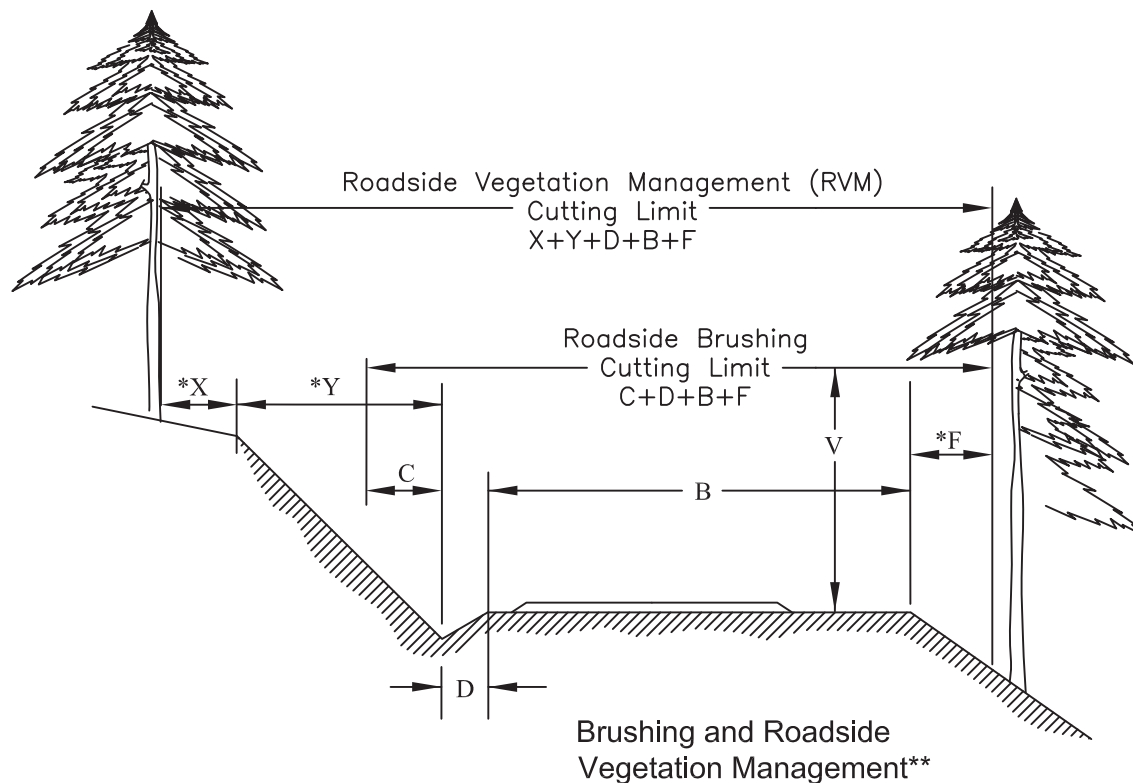
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD, OREGON

TYPICAL ROAD RENOVATION DETAIL

DRAWN BY JWR	SCALE NONE
DATE April 2025	SHEET 1 OF 1
DRAWING NO. ORM06.2025.0008.C6	

EXHIBIT C 7

SHEET 1 OF 1



Typical Road Bed Subgrade widths

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

- *X = 5 ft - *RVM only - Cut all vegetation to max height of 6".
- *Y = Vertical Slope - Variable distance from centerline of ditch to Top of Cut. *RVM only - Cut all vegetation to max height of 6".
- 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".
- B = Road Bed Subgrade (includes turnouts) Cut all vegetation to max. height of 1".
- *F = 6 ft - Distance to be brushed on fill slope beyond outside shoulder. *RVM only - Cut all vegetation to max height of 6".
- V = 14 ft - Height of vertical cutting limit
- All distances shown are horizontal except for V and Y

NOTES:

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

All merchantable roadside trees within timber sales units shall be cut unless painted as described in Sec. 43 B. IR-1 (reserve trees).

See Exhibit C-2 (Maps) and Exhibit C-5: Road Renovation Worklist for Roadside Vegetation Management locations.

* = Roads identified for Roadside Vegetation Management shall have all non-merchantable and merchantable trees over 6" DBH cut within the cutting limits.

** = All stumps that may impede road maintenance equipment from properly maintaining the road and ditch line shall be grubbed or ground 6" below subgrade. Stump holes shall be filled (if needed) with suitable material and compacted.

*** = Excludes work for roadside vegetation management.

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

ROADSIDE BRUSHING AND ROADSIDE VEGETATION MANAGEMENT DETAILS

DRAWN	JWR	SCALE	NONE
DATE	April 2025	SHEET	1 OF 1
DRAWING NO. ORM06.2025.0008.C7			

TYPICAL CROWNED SURFACE

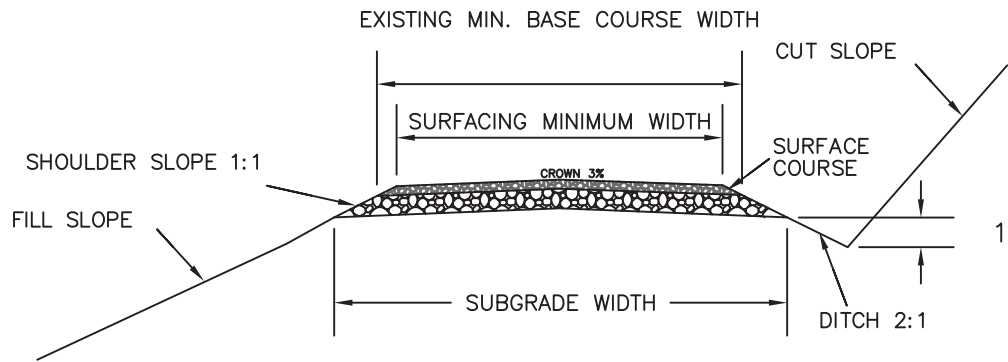
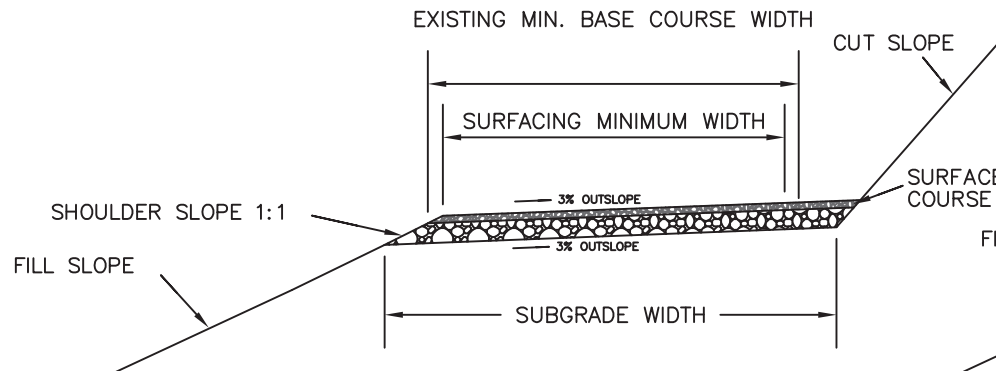
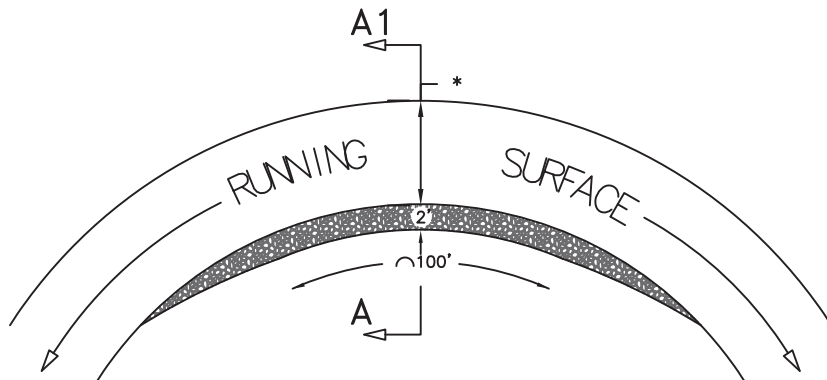
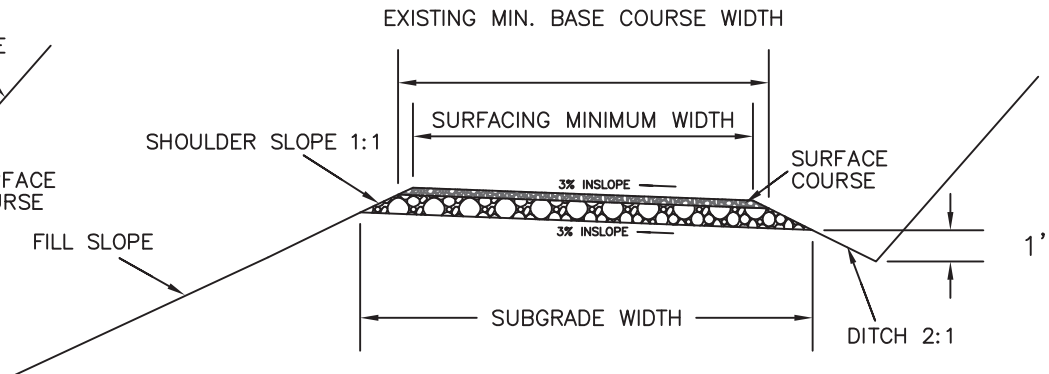


EXHIBIT C 8
SHEET 1 OF 1

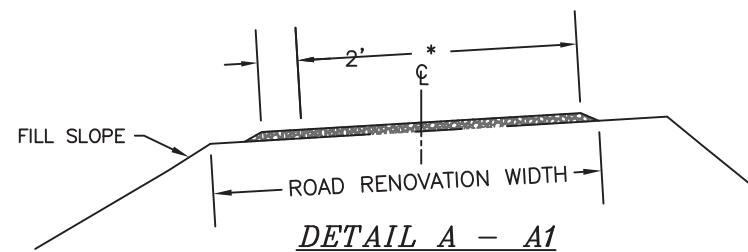
TYPICAL OUTSLOPED SURFACE



TYPICAL INSLOPED SURFACE



TYPICAL CURVE WIDENING DETAIL



NOTES:

SURFACE COURSE SHALL BE PLACED AND COMPACTED TO THE DEPTH SPECIFIED IN EXHIBIT C5 ROAD RENOVATION WORKLIST AND IN ACCORDANCE WITH SECTION 1200 OF THE SPECIFICATIONS.

CURVE WIDENING SHALL BE SURFACED TO A LENGTH OF 100' WITH 50' TAPERS.

APPLY THE WIDENING ON THE INSIDE OF THE CURVES THROUGHOUT THE RADIUS OF THE CORNER TO MATCH THE EXISTING ROAD TEMPLATE.

MAINTAIN EXISTING CROSS SLOPE AT CURVES

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

TYPICAL ROAD SURFACING SECTIONS

DRAWN: JWR SCALE: AS SHOWN

DATE: April 2025 SHEET 1 OF 1

DRAWING NO. ORM06.2025.0008.C8

EXHIBIT C 9

SHEET 1 OF 1

NOTES

- 1) THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
- 2) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET.
- 3) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET.
- 4) SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE.
- 5) EXCAVATED SOIL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING OF VEGETATIVE MATTER IS PERMITTED.
- 6) PIT RUN MATERIAL SHALL BE PLACED ON FILL SLOPE AND SUBGRADE OF EACH 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 INCH MINUS ROCK, ON ROADWAY AND OUTFALL.

LEGEND



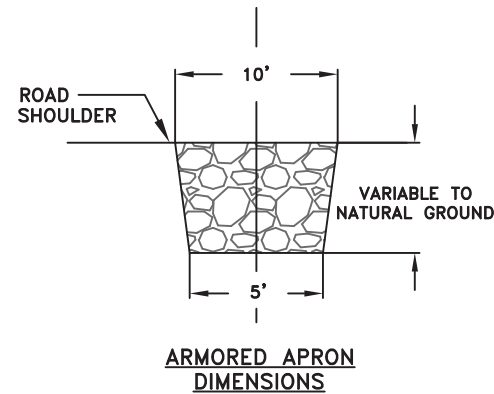
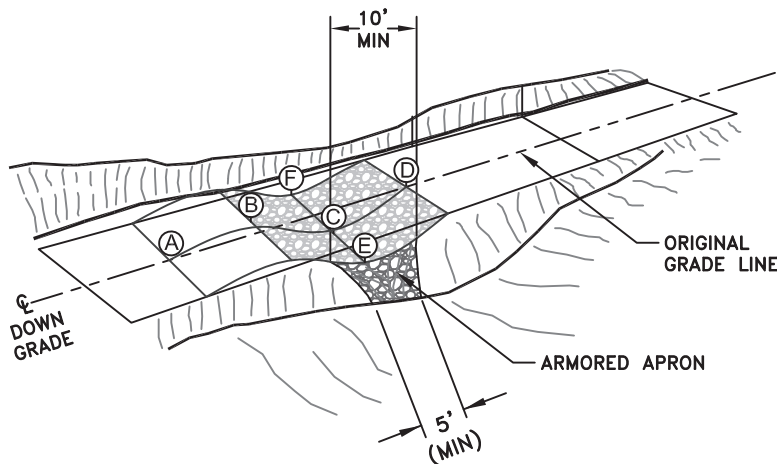
CUT/FILL SLOPES



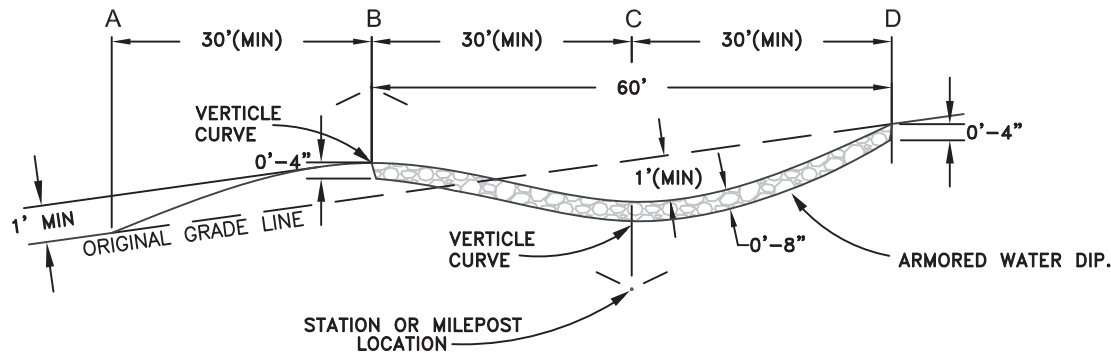
SUBGRADE ARMOR MATERIAL
(4 INCH MINUS)



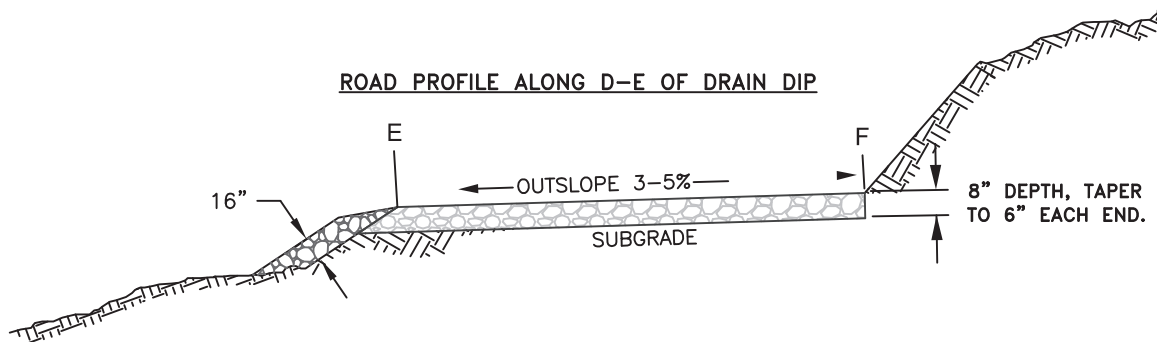
FILL SLOPE ARMOR MATERIAL PIT RUN
OR OTHER APPROVED MATERIAL.



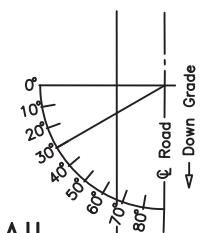
ROAD PROFILE ALONG A-B-C OF DRAIN DIP



ROAD PROFILE ALONG D-E OF DRAIN DIP



SKEW DIAGRAM



DRAWINGS NOT TO SCALE

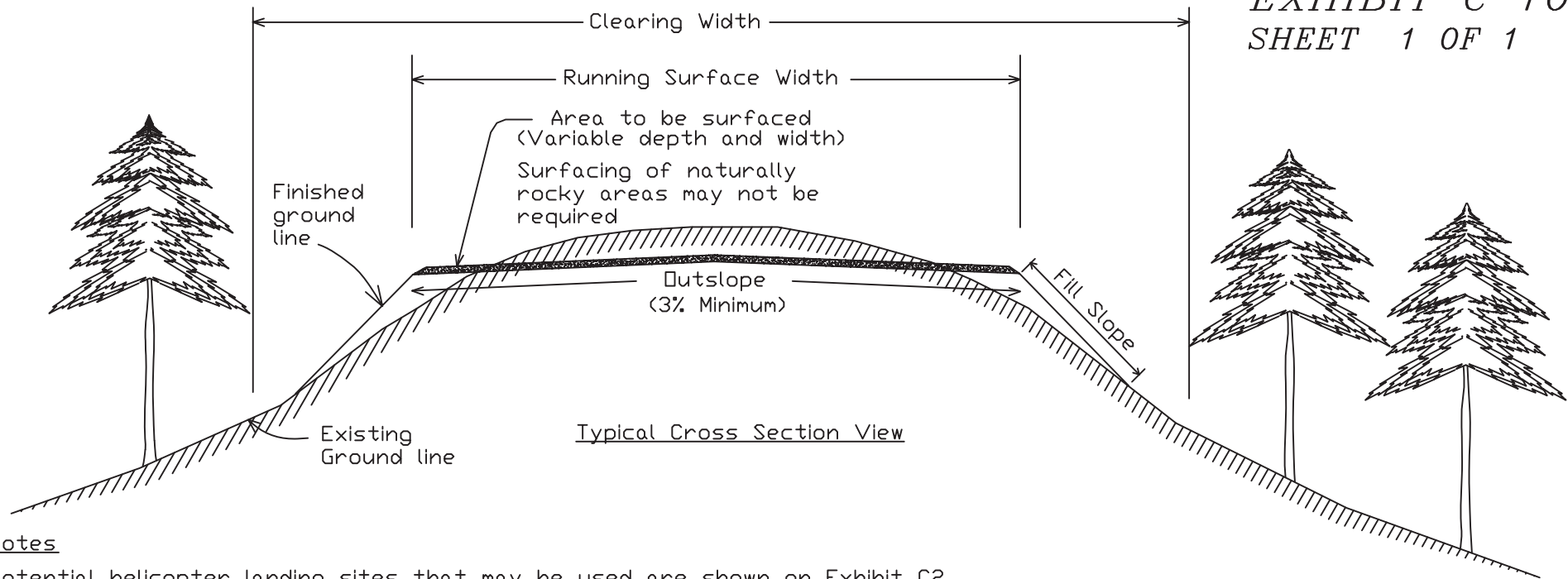
TYPICAL ARMORED WATER DIP CONSTRUCTION DETAIL

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

TYPICAL ARMORED WATER DIP CONSTRUCTION

DRAWN BY JWR	SCALE NONE
DATE April 2025	SHEET 1 OF 1
DRAWING NO.	ORM06.2025.0008.C9

EXHIBIT C 10 SHEET 1 OF 1



Typical Cross Section View

Notes

Potential helicopter landing sites that may be used are shown on Exhibit C2. The Purchaser shall select service and log landing sites and provide site plans to be reviewed at the Road Construction and Renovation Pre-work Conference.

Each site plan shall include the following:

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

Clearing, grubbing and slash disposal shall be completed in accordance with Section 200. The Purchaser shall delineate perimeters of landing sites and access ramps to be cleared. Additional trees needed to be removed in accordance with L-24 shall also be identified. Landings shall not be larger than necessary. The Authorized Officer shall review and approve the site and plans prior to commencement of clearing and grubbing activities.

Excavation and Embankment shall be completed in accordance with Section 300. The surface area of landings and access ramps to be surfaced shall be approved by the Authorized Officer prior to rock placement. A 2 to 6 inch depth of compacted rock from approved sources shall be placed in accordance with Section 1200 of Exhibit C Specifications and as directed by the Authorized Officer.

Fill slopes shall be mulched, fertilized and seeded in accordance with Section 1800.

Cut and Fill slope ratios:

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

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

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

HELICOPTER LANDING SITES CONSTRUCTION DETAILS

DRAWN BY JWR	SCALE NONE
DATE May 2025	SHEET 1 OF 1
DRAWING NO.	ORM06.2025.0008.C10

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SPECIAL PROVISIONS

1. 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 an Authorized Officer prior to entering BLM lands. Provide 48 hours' notice of inspection to BLM prior to mobilization.
2. SOIL STABILIZATION:
 - All disturbed soil shall be seeded and mulched. The Purchasers Representative/Contractor shall apply native grass seed and certified weed free straw mulch for soil stabilization operations. The Purchaser shall supply native seed and certified weed free straw. Native seed and certified weed free straw may be purchased from the BLM, if available.
3. DAMAGE:
 - The Purchaser 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, as good or better condition than just prior to such damage occurring.
Chopper Styx T.S.
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 severely wet weather, at stream crossings to be designated by the Authorized Officer, or other locations that could result in direct delivery to a water body.
 - All dust abatement applications shall be approved by the Authorized Officer prior to application.
5. WATER SOURCES:
 - The Purchaser is responsible for obtaining water in accordance with Exhibit C-12, Section 600 (Watering), water sources shall be approved by the Authorized Officer prior to use. The Purchaser is responsible for all associated rights, permits, and fees from water sources on private or commercial sources.
6. PERMITS:
 - All permits required are the responsibility of the Purchaser.
7. CULVERT REMOVAL:
 - When removing culverts unless constructing armored water dips, pull slopes back to the natural slope, or at least 1.5:1, 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.

8. COMMERCIAL AGGREGATE

- If aggregate furnished for this work comes from a commercial source, then the aggregate 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.

9. ROAD RENOVATION:

- Road renovation shall generally take place between May 15th and October 15th of the same year. Waivers may be granted from the Authorized Officer for working outside of this time period. Seasonal restrictions for stream work and wildlife may still apply.
- Loose material cleaned from ditch lines and/or slide material shall not be sidecast or placed where it can enter wetlands, riparian reserves, floodplains, and waters of the State.

10. STREAMS:

- All in-stream work shall be between **June 15th and September 15th** (both days included) in accordance with Oregon Department of Fish and Wildlife (ODFW) in-stream work period guidelines.
- 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.

11. 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-12.
- Construction of temporary spur routes shall be to a subgrade width of 14'.

12. WET SEASON HAUL

- The Purchaser may wet season haul, with the Authorized Officer's approval on the following roads: 38-3W-5.00, 38-3W-5.01, 38-3W-5.02, 38-3W-7.00, 38-3W-8.00, 38-3W-16.00, 38-3W-16.01, 38-3W-23.00, 38-3W-23.01, 38-3W-26.01, and 38-3W-26.02. If the use of these roads during the wet season causes or begins to cause road damage or the transport of sediment into streams, the Authorized Officer may suspend wet season haul or require additional erosion control devices to prevent damage or off-site transportation of sediment. Additional rock may be required at the Purchaser's expense to repair any damage that occurs to the road during wet season haul.

Chopper Styx T.S.

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TIMBER SALE ROAD SPECIFICATIONS

TABLE OF CONTENTS

SECTION	DESCRIPTION
100	General
200	Clearing and Grubbing
300	Excavation and Embankment
500	Renovation and Improvement of Existing Roads
600	Watering
900	Aggregate Base Course - Screened Rock
1200	Aggregate Surface Course - Crushed Rock
1700	Erosion Control
2100	Roadside Brushing

GENERAL – 100

101 - Prework Conference(s):

A prework conference will be held prior to the start of new construction, improvement, renovation, surfacing, and seeding/mulching operations. The Purchaser shall request the conference at least 72 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his 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).

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 side-casting 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 (Road Prism) - 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:

<u>AASHTO T 11</u>	Quantity of rock finer than No. 200 sieve.
<u>AASHTO T 27</u>	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
<u>AASHTO T 89</u>	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
<u>AASHTO T 90</u>	Plastic limits and plasticity index of soil. a. Plastic limit - lowest water content at which the soil remains plastic. b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
<u>AASHTO T 96</u>	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
<u>AASHTO T 99</u>	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.

<u>AASHTO T 119</u>	Slump of hydraulic cement concrete.
<u>AASHTO T 152</u>	Air content of freshly mixed concrete.
<u>AASHTO T 166</u>	Specific Gravity of compacted Bituminous Mixtures.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
<u>AASHTO T 180</u>	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.
<u>AASHTO T 191</u>	<u>Sand Cone.</u> Density of soil in place: For subgrade use 6-inch or 12- inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
<u>AASHTO T 205</u>	<u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil.
<u>AASHTO T 209</u>	Maximum Specific Gravity of Bituminous Paving Mixtures.
<u>AASHTO T 210</u>	Durability of aggregates based on resistance to produce fines.
<u>AASHTO T 224</u>	Correction for coarse particles in the soil.
<u>AASHTO T 238</u>	Density of Soil and Soil-Aggregate in place by nuclear methods.
<u>AASHTO T 248</u>	Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
<u>ASTM D 4564</u>	Determination of relative density of cohesionless soils.
<u>DMSO (dimethyl sulfide)</u>	Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

- 103 - Compaction equipment shall meet the following requirements:
- 103b - Sheepfoot and Tamping rollers. A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7

inches from the face of the drums.

The distance between circumferential rows of tamper feet shall be such that the diagonal distance from any foot to the nearest foot in each adjacent row shall be not more than 12 inches. The cross-sectional area of the face of each tamper foot, measured perpendicular to the axis of the stud, shall be not less than 5-1/2 square inches nor more than 8 square inches.

The weight of the tamping-roller unit shall be such as to exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet, and the roller shall be so designed that the weight may be increased to exert a pressure up to 500 pounds per square inch on the ground area in contact with the tamping feet. The ground pressure shall be determined by dividing the total weight of the roller unit, not including the weight of the tractor, by the total cross-sectional area of the tamping feet in one row of tamping feet parallel to the axis of the roller.

- 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. The 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.
- 201a - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications 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 quarries have not been staked or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet outside of the outside slope lines.
- 203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsections 202 and 202b, as shown on the plans, as staked on the ground, and as posted.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 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 (in accordance with Subsections 204a, 204b, 204c, 204d, and 204e between the top of the cut slope and the toe of the fill slope).
- 204a - Stumps including those overhanging cut banks, shall be removed within the required excavation limits.
- 204b - Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet.
- 204c - On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 204d - On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces

after grubbing is completed.

- 204e - Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 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 chipping in accordance with Subsection 209 and/or piling in accordance with Subsection 211 and at the following

Road No.	From M.P./Sta	To M.P./Sta	Activity Type	Disposal Method
38-3-5.01A1	0.00	0.19	Rdside Veg. Mgt.	Pile
38-3-5.02 A-B	0.00	1.30	Rdside Veg. Mgt.	Pile
38-3-7.00 A-B	0.00	0.92	Rdside Veg. Mgt.	Pile
38-3-8.00 A	0.00	0.57	Rdside Veg. Mgt.	Pile
38-3-16.00	0.00	1.17	Rdside Veg. Mgt.	Pile
38-3-16.00	-	0.71	Heli Construction	Pile
38-3-16.00	-	0.91	Heli Construction	Pile
38-3-16.00	-	1.17	Heli Construction	Pile
38-3-16.01	0.00	0.60	Rdside Veg. Mgt.	Pile
38-3-16.01	-	0.43	Heli Construction	Pile
38-3-23.01	-	1.37	Heli Construction	Pile
38-3-26.01	-	0.92	Heli Construction	Pile

- 207 - The Purchaser shall prepare a burning plan for the disposal of clearing and grubbing debris in accordance with local and state laws, rules, and regulations. The plan shall be approved in writing by the Authorized Officer prior to burning.
- 207a - Burning shall utilize methods which produce intense heat with no visible smoke emissions except that minimal emissions of smoke associated with starting and stopping the operations will be tolerated. Prior to beginning burning the Purchaser shall obtain a burning permit from the regulating authority enforcing the air pollution control standards for the area and shall furnish a copy of the permit to the Authorized Officer. At the conclusion of each burning session, the fire shall be completely extinguished so that no smoldering debris remains.

Debris to be burned shall be dirt free. Final placement of debris into the actual burning area shall be done with a crane, loader, or other suitable lifting equipment. The use of dozers will not be permitted, unless they are equipped with a brush blade. Stumps larger than 3 feet in diameter shall be split prior to burning.

- 208b - Trees, firm logs, and other firm large pieces, 4 inches in diameter and 8 feet in length and larger and not removed from the contract area by the Purchaser, shall be piled at

locations determined by the Authorized Officer.

- 208c - Clearing debris shall be placed outside the roadway in a neat, compacted windrow laid approximately parallel and along the toe-line of embankment slopes. The top of the windrow shall not extend above the subgrade. Material in the windrow shall be matted down with construction equipment to form a compact and uniform pile. Windrows shall have 16-foot minimum breaks at least every 150 feet. Windrows shall not be placed against trees. A pioneer road may be constructed to provide an area for placement of windrows provided the excavated material is kept within the clearing limits and does not adversely affect the road construction.
- 211 - Disposal of clearing and grubbing debris or stumps and cull logs shall be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.
- 212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- 301 - This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 302 - Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes or metal tags.
- 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 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.
- 305c - Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent rock not larger than 12 inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness.
- 306 - Layers of embankment, final subgrade, and selected roadway excavation material as specified under Subsections 305a, 305b, and 317 shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103b, 103f, 103g, 103h, and 103i and in accordance with the following table:

Road No.	From Sta./M.P.	To Sta./M.P.	Subsection 306
Heli 38-3-16.00	-	0.71	306 f
Heli 38-3-16.00	-	0.91	306 f
Heli 38-3-16.00	-	1.17	306 f
Heli 38-3-16.01	-	0.43	306 f
Heli 38-3-23.01	-	1.37	306 f
Heli 38-3-26.01	-	0.92	306 f

- 306a - Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be 1 hour of continuous compacting for each 150 cubic yards in place or fraction thereof.
- 306e - The final subgrade except landings and temporary roads shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103b, 103f, 103g, 103h, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 8 stations of road or a fraction of as measured along the center line of the constructed road. Landings and temporary roads shall be compacted by routing construction equipment over full width.

- 306f - Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures except as specified in Subsection 306.
- 306g - All fill slopes shall be compacted to 75 percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 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.
- 311 - In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade, and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 312 - When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with these specifications.
- 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 306.
- 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 306. 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.
- 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 1 foot 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 final inspection of the grading operations and start of surfacing operations.
- 328 - The Purchaser shall adopt methods and procedures in using explosives, which will prevent damage to adjacent landscape features, and which will minimize scattering rocks and other debris outside the road prism.

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, shown on the plans, and as marked on the ground with stakes.
- 501a - This work shall include the removal and disposal of slides in accordance with these specifications and as marked on the ground with stakes.

- 502 - The existing road surface shall be scarified (where needed) to its full width and to a depth of 6 inches to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.
- 502a - Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 504 - Scarified material and 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 Subsection 504a.
- 504a - **Minimum compaction required shall be 1 hour of continuous rolling for each 5 stations of road, or fraction thereof, as measured along the centerline per layer of material.**
- 506 - 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 - New drainage structures at the following locations shall be 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 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 3 days prior to surfacing operations. The Purchaser shall give the Authorized Officer notice 3 days 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 and landings approved for placing screened rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans.
- 902 - Screened rock materials used in this work shall be obtained from the source shown on the plans. Development and mining of such source shall be in accordance with Subsection 1601 and Subsection 1602.
- 902a - Screened rock materials to be used in this work may be obtained from sources selected by the Purchaser, at his option, providing the rock materials furnished comply with these specifications and the sources are 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	100		
2 inch		95-100	100	
1-1/2 inch			95-100	100
1 inch				95-100
No. 4	11-44	16-49	21-54	26-59
No. 200	2-15	2-15	0-15	0-15

- 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 subgrades 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 and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the purchaser's expense.
- 1202a - Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.
- 1203 - When crushed rock material is produced from gravel, not less than 65 percent by weight of the particles retained on the No. 4 sieve will have 2 manufactured fractured faces. If necessary to meet the above requirements or to eliminate an excess of filler, the gravel shall be screened before crushing.
- 1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE
COURSE CRUSHED ROCK
MATERIAL

Percentage by weight passing square mesh sieves
AASHTO T 27
GRADATION

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

- 1204a - The Purchaser shall be required to take one sample for each 1,000 cubic yards of crushed rock material to be utilized or a minimum of 1 sample per day, using AASHTO sampling procedures. The Purchaser shall submit samples to a certified lab or perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures. Prior to testing, each sample shall be split, making one half of the sample, with proper identification, available for testing by the Authorized Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within 24 hours of sampling. The Purchaser shall provide test results for the first 500 cubic yards produced prior to commencing production crushing and hauling.
- 1205 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.
- 1207 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1208 - If additional binder or filler material is necessary to meet the grading or plasticity

requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

- 1208a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1209 - Shaping and compacting of roadbed or base course shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsections 300 and 500 for placing on the roadbed and landings and Subsection 900 for placing on the base course. Notification for final inspection prior to rocking shall be 72 hours prior to the inspection and shall be 10 days prior to start of surfacing operations.
- 1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved 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 in writing by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f, 103g, 103h, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 5 stations, or fraction thereof.

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 21,780 square feet (0.50 acres) after October 15 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 21,780 square feet (0.50 acres) after October 15 without prior approval by the Authorized Officer.
- 1706a - The Purchaser shall perform, during the same construction season, erosion control measures, on all exposed excavation, borrow, and embankment areas.
- 1707 - Completed and partially completed segments of roads at the following locations:

Road No.	From Sta./M.P.	To Sta./M.P.
Heli 38-3-16.00	-	0.71
Heli 38-3-16.00	-	0.91
Heli 38-3-16.00	-	1.17
Heli 38-3-16.01	-	0.43
Heli 38-3-23.01	-	1.37
Heli 38-3-26.01	-	0.92

carried over the winter and early spring periods shall be stabilized by seeding and mulching in accordance with Section 1800.

- 1708 - Newly constructed roads to be carried over the winter period, shall be water barred and blocked to vehicular traffic.
- 1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.
- 1711 - The Purchaser shall construct catch basins and energy dissipators for pipe culverts (splash pads) conforming to the requirements and details shown on the respective exhibits.

- 1713 - Where newly constructed logging spur roads join with existing surfaced roads, the Purchaser shall construct a sag in the spur road profile and install a culvert in accordance with the requirements and details as shown on the plans.

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 (Exhibit C-7) of this exhibit, at designated locations as shown in the plans.
- 2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.
- 2103 - Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at D.B.H. shall be cut to a maximum height of 1 inch above the ground surface or above obstructions such as rocks or stumps on cut and fill 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 shoulders 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 or chipped downslope from the roadway as indicated on Exhibit C-3 (Estimate of Quantities) and Exhibit C-5 (Road Renovation Worklist). 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.
- 2110 - Vegetation 6 inches and smaller in diameter shall be chipped where indicated on Exhibit C-3 (Estimate of Quantities) and Exhibit C-5 (Road Renovation Worklist). Chips shall be scattered downslope from the roadway. Vegetation over 6 inches in diameter shall be disposed of by direction of the Authorized Officer.
- 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.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sale: Chopper Styx TS
Sale Date: 9/18/2025
Prep. By : Josh R
Tract No: 2025.0008

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1.1) Road Use - Amortization: \$0.00/5162 MBF = \$0/MBF

Road Maintenance Obligation:

(2.1) BLM Maintenance	\$1,655.17
(2.2) BLM Rockwear	\$0.00
(5.1) Purchaser Maintenance Rockwear	<u>\$6,455.72</u>
Total Rockwear Payable to BLM	\$6,455.72
(3.1) 3rd Party Maintenance	\$0.00
(3.2) 3rd Party Rockwear	\$0.00
(4.1) Other Maintenance Payments	\$0.00
Total Maintenance Fee Obligation (2.1-5.1)	<u>\$8,110.89</u>

Purchaser Maintenance Allowances:

(5.2A) Move In	\$2,138.00
(5.2B) Culverts, Catch Basins, Downspouts	\$5,193.74
(5.2C) Grading, Ditching	\$13,392.66
(5.2D) Slide Removal and Slump Repair	\$0.00
(5.2E) Dust Palliative (Water)	\$0.00
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	<u>\$20,724.40</u>

(2.1-5.2G) Cost (\$8,110.89 + \$20,724.40) = \$28,835.29
Cost/MBF 28835.29 / 5162 MBF =

\$5.59/MBF

(5.2H) Decommissioning \$0.00

(5.2H) Cost/MBF \$0.00/5162 MBF =

\$0.00/MBF

(2.1-5.2H) Cost (\$8,110.89 + \$20,724.40 + \$0.00) = \$28,835.29

Total Cost/MBF (Excluding Road Use) \$28,835.29/5162 MBF =

\$5.59/MBF

1) Road Use Fees - Amortization

Details

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

Subtotal by agreement number

(1.1) Subtotal \$0.00

2) BLM Maintenance - Timber Haul

MAINTENANCE (2.1)					ROCKWEAR (2.2)			
Road Number	A Surf	Maint	Vol					
and Segment	N Type	Mi	x Fee x MBF =	Maint	Fee x MBF =	Rkwear		
38-3-23.00	A BST	0.77	0.82 1810	\$1,142.83	0.00 1810	\$0.00		
38-3-05.00	A BST	0.71	0.82 880	\$512.34	0.00 880	\$0.00		

(2.1) Subtotal \$1,655.17

(2.2) Subtotal \$0.00

3) Third Party Maintenance and Rockwear

MAINTENANCE (3.1)					ROCKWEAR (3.2)			
Agrmnt	Surface	Road						
Number	Type	Number	Mi	x Fee x MBF =	Maint	Fee x MBF =	Rkwear	

Subtotal of maintenance fees by agreement number:

Subtotal of rockwear fees by agreement number:

(3.1) Subtotal

\$0.00

(3.2) Subtotal

\$0.00

4) Other Maintenance Payments - USFS or Others Perform Maintenance

Agency	Road Number	Miles (Log)	Vol (mbf)	Fee x MBF/MI =	Cost
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(4.1) Subtotal \$0.00

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)

Road No	A	RkWear	Vol	Total
and Segment	N Mi	x Fee x MBF =	RkWear	
38-3-05.01	A 0.10	x \$0.85 x 131 =	\$11.14	
38-3-05.01	A 0.19	x \$0.85 x 749 =	\$120.96	
38-3-05.02	A 0.64	x \$0.85 x 16 =	\$8.70	
38-3-05.02	A 1.28	x \$0.85 x 733 =	\$797.50	
38-3-07.00	A 0.46	x \$0.85 x 441 =	\$172.43	
38-3-07.00	A 0.73	x \$0.85 x 284 =	\$176.22	
38-3-08.00	A 0.29	x \$0.85 x 8 =	\$1.97	
38-3-08.00	A 0.57	x \$0.85 x 725 =	\$351.26	
38-3-16.00	A 0.32	x \$0.85 x 1359 =	\$369.65	
38-3-16.00	A 0.56	x \$0.85 x 201 =	\$95.68	
38-3-16.00	A 0.81	x \$0.85 x 686 =	\$472.31	
38-3-16.00	A 1.17	x \$0.85 x 226 =	\$224.76	
38-3-16.01	A 0.43	x \$0.85 x 1358 =	\$496.35	
38-3-16.01	A 0.60	x \$0.85 x 1 =	\$0.51	
38-3-23.01	A 0.38	x \$0.85 x 186 =	\$60.08	
38-3-23.01	A 1.37	x \$0.85 x 1624 =	\$1,891.15	
38-3-26.01	A 0.92	x \$0.85 x 1244 =	\$972.81	

38-3-26.02 A 0.38 x \$0.85 x 719 = \$232.24

(5.1) Subtotal \$6,455.72

Purchaser Operational Maintenance

Move In

Equipment	No Units	Move x in	Cost/ x 50 Mi	Dist x 50 Mi	Sub- Factor	= total
Motor Grader:	1	2		536	1.00	\$1,072.00
Back Hoe:	1	1		399	1.00	\$399.00
Loader:				536	0.63	\$0.00
Water Truck:	1	1		131	1.00	\$131.00
Dump Truck:				124	0.63	\$0.00
Excavator:				536	0.63	\$0.00
Roller:	1	1		536	1.00	\$536.00

(5.2A) Total \$2,138.00

Culvert Maintenance - Including Catch basins and Downpipes

Miles	x	Cost/Mi	=	Subtotal
		\$501.63		\$0.00

Type	CMP	No	CMPS	x	Cost/CMP	=	Subtotal
Minor Cleaning		62			\$83.77		\$5,193.74

(5.2B) Total \$5,193.74

Grading (Includes Ditches and Shoulders)

Miles	x	Cost/Mi	x	Freq	=	Subtotal
Blade w/ Ditch:	7.02			923.61	2	\$12,967.48
Blade w/o Ditch:	0.38			559.44	2	\$425.17

(5.2C) Total \$13,392.66

Slide and Slough removal, Slump Repair (15 sta-yds. ea.)

Type	No	Slides	Hours	Equip	
Equipment	/Slumps	x	Each	x	Cost = Subtotal
Grader:	0		0		\$184.36 \$0.00
Loader:	0		0		\$114.30 \$0.00
Backhoe:	0		0		\$108.79 \$0.00

(5.2D) Total \$0.00

Dust Palliative (Water)

Spreading Hours

No	Freq	Truck						
Miles	/	MPH	=	Hours	x	Days	x	/Day = Hours
0.00		0				0		0
Load & Haul =				0.0		0		0
Total Hours =				0				

Truck Cost: \$109.35/Hr. x 0.0 Hours = \$0.00

(5.2E) Total \$0.00

Surface Repair (Aggregate)

(5.2F) Total \$0.00

Other

Fallen Timber Cutting:	0.0 Hours x \$0.00/Hour	= \$0.00
Brush Cutting/Tree Trimming:	0.0 Hours x \$0.00/Hour	= \$0.00
Oil/Asphalt Materials:	Lump Sum	= \$0.00
Signing for Dust Palliatives:	Lump Sum	= \$0.00
	Lump Sum	= \$0.00
	Lump Sum	= \$0.00
	Lump Sum	= \$0.00
	Lump Sum	= \$0.00

(5.2G) Total \$0.00

Decommissioning

(5.2H) Decommissioning Total \$0.00

ROAD MAINTENANCE SPECIFICATIONS

ROAD MAINTENANCE SPECIFICATIONS TABLE OF CONTENTS

SECTION	DESCRIPTION
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance

ROAD MAINTENANCE SPECIFICATIONS

GENERAL - 3000

3001 The Purchaser shall be required to maintain all roads listed and/or as shown on the Exhibit D2 map of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.

Road No. and Segment	Length Miles Used	Ownership	Road Surface Type	Maintenance Responsibility
38-3W-5.00	0.71	BLM	BST	BLM
38-3W-5.01	0.19	BLM	Aggregate	Purchaser
38-3W-5.02	1.28	BLM	Aggregate	Purchaser
38-3W-7.00	0.92	BLM	Aggregate	Purchaser
38-3W-8.00	0.57	BLM	Aggregate	Purchaser
38-3W-16.00	1.17	BLM	Aggregate	Purchaser
38-3W-16.01	0.60	BLM	Aggregate	Purchaser
38-3W-23.00	0.77	BLM	BST	BLM
38-3W-23.01	1.37	BLM	Aggregate	Purchaser
38-3W-26.01	2.29	BLM	Aggregate	Purchaser
38-3W-26.02	0.38	BLM	Aggregate	Purchaser

3001a The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3403 and 3404.

3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards.

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

3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any 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.

ROAD MAINTENANCE SPECIFICATIONS

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.
- 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.

ROAD MAINTENANCE SPECIFICATIONS

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 by scattering below the road in accordance with Section 2100 of Exhibit C.

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

3108a The Purchaser shall perform logging operations on gravel and/or bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. (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 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the 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

ROAD MAINTENANCE SPECIFICATIONS

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.

3303 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.

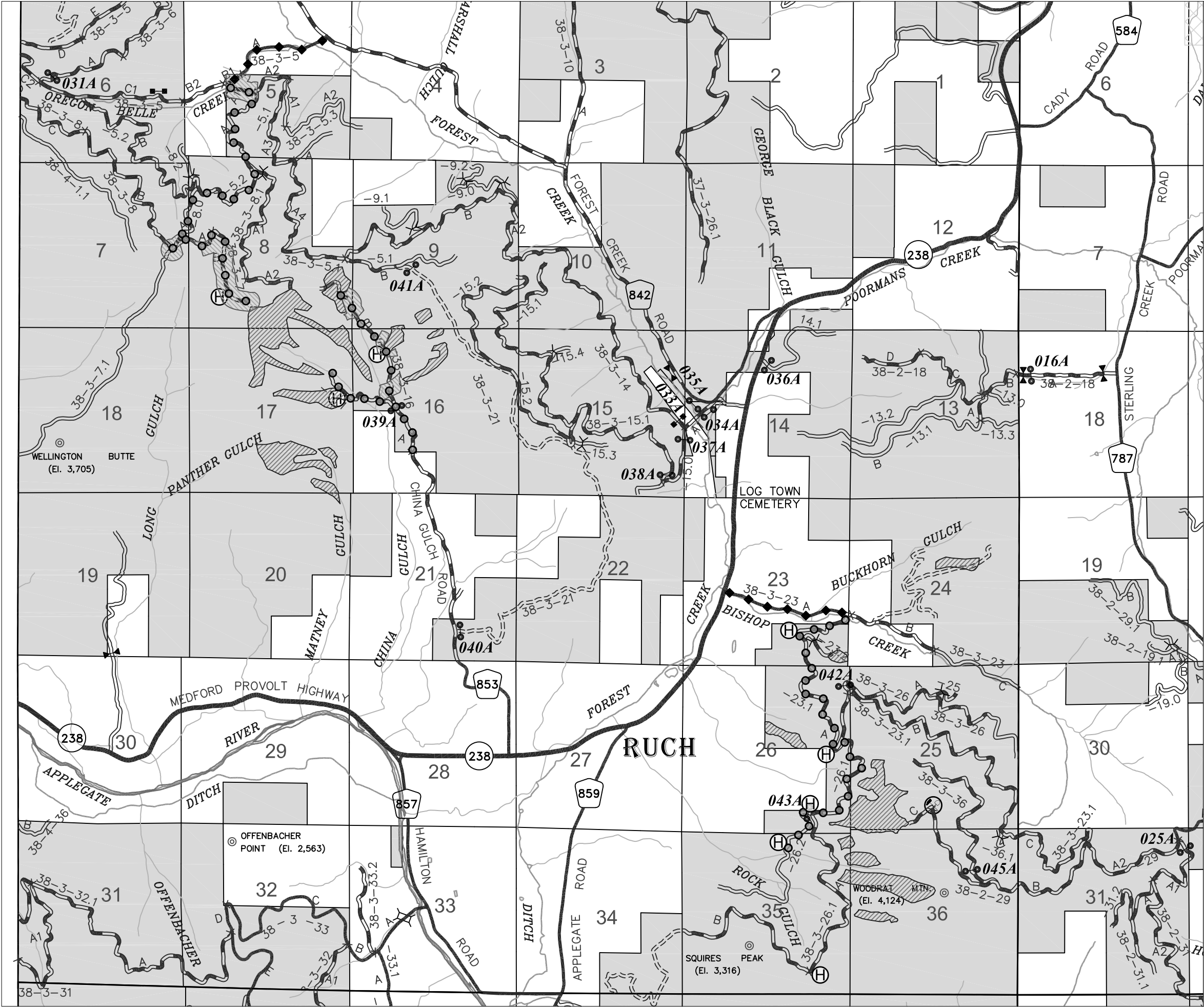
OTHER MAINTENANCE - 3400

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.

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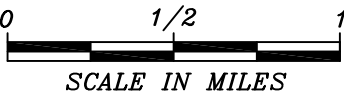
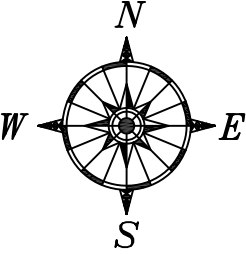
CHOPPER STYX TIMBER SALE
ROAD LOCATION MAP
EXHIBIT D-2; PAGE 1 OF 1

U.S.D.I. BLM MEDFORD DISTRICT
T.38S., R.3W. WILL. MER.

- EXISTING BARRICADE
- QUARRY
- HELICOPTER LANDING
- ROAD PROJECTS
 - EXISTING ROAD
 - EXISTING PAVED ROAD
 - EXISTING PRIMITIVE ROAD
- OPERATOR MAINTENANCE
- BLM MAINTENANCE

- BLM LAND
- TS UNITS
- LINEAR UNITS

T.38S.



R.3W.

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[illegible]

* For informational use only, quantities shown are not pay items.

REV. NO.		APPROV.	
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON			
ESTIMATE OF QUANTITIES*			
DRAWN: JWR		SCALE NONE	
DATE: May 2025		SHEET 1 OF 1	
DRAWING NO. ORM06-TS.2025.0008.D3pg1			



**Purchaser Maintenance
Roads Work List**

Definitions:

AGG = Aggregate	Jct = Junction/Intersection
BST = Bituminous	MP = Mile Post
NAT = Natural or Native Surface	CL = Center Line
CMP = Corrugated Metal Pipe	CY = Cubic Yard
Pvt = Private (Industry or Citizen)	Seg = Segment

GENERAL DEFINITIONS:

Decommission (Full) = Full Decommissioning shall include decompacting the surface to a depth of 12 to 18 inches, installing waterbars (every 200' for grades <10% - every 100' grades >10%) unless otherwise noted in the work list, stabilizing or removing fills on unstable areas, barricading the road entrance, camouflaging, and/or removing culverts (armor if needed). Seeding with approved native seed species and mulching with weed-free straw or approved native materials.

Long Term Closure = Long Term Closure shall include installing waterbars (every 200' for grades <10% - every 100' grades >10%) unless otherwise noted in the work list, stabilizing or removing fills on unstable areas, barricading the road entrance, camouflaging, and/or removing culverts (armor if needed). Seeding with approved native seed species and mulching with weed-free straw or approved native materials.

Camouflaging = Camouflaged entrances shall consist of logs, slash, boulders and others debris placed along road entrances for a minimum of 100 feet or to the first curve or hillcrest to discourage vehicle use.

Barricade = Barricade only.

38-3-05.01 Road – China Forest Saddle – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Crowned

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-05.00. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 3 culverts.
0.02	Existing cattleguard.
0.03	Existing culvert.
0.10	Existing culvert.
0.17	Existing culvert.
0.19	Jct. with 38-3W-05.02 to right. End road maintenance.

38-3-05.02 Road – Oregon Belle – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-05.01. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 15

	culverts.
0.06	Existing culvert.
0.16	Existing culvert.
0.20	Existing culvert.
0.25	Existing culvert.
0.29	Existing culvert.
0.37	Existing culvert.
0.43	Existing culvert.
0.47	Jct. with 38-3W-05.04 to right.
0.50	Existing culvert.
0.55	Existing culvert.
0.61	Existing culvert.
0.67	Jct. with 38-3W-08.01 to left.
0.68	Existing culvert.
0.76	Existing culvert.
1.02	Existing culvert.
1.05	Existing culvert.
1.27	Existing culvert.
1.28	Jct. with 38-3W-08.00 to left. End road maintenance.

38-3-07.00 Road – Star Mine – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-08.00. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 7 culverts.
0.17	Existing culvert.
0.22	Existing culvert.
0.24	Existing culvert.
0.32	Existing culvert
0.39	Existing culvert.
0.45	Existing culvert.
0.52	Existing culvert.
0.73	Existing Quarry to right. Helicopter landing.
0.92	End road maintenance.

38-3-08.00 Road – Upper Oregon Belle – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3-05.02. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 6 culverts.
0.04	Existing culvert.
0.10	Existing culvert.
0.17	Existing culvert.
0.25	Existing culvert.
0.32	Existing culvert.

0.40	Existing culvert.
0.57	Jct. with 38-3W-07.00 to left. End road maintenance.

38-3-16.00 Road – China Gulch – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with County Road N°. 853 China Gulch Road at BLM Property Boundary. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 8 culverts.
0.01	Jct. with private drive to left.
0.02	Existing culvert.
0.10	Existing culvert.
0.19	Existing culvert.
0.25	Existing culvert.
0.29	Jct. with private drive to left.
0.30	Existing culvert.
0.31	Existing BLM gate.
0.32	Jct. with 38-3W-16.01 to left.
0.38	Existing water dip.
0.43	Existing water dip.
0.46	Existing culvert.
0.52	Existing water dip.
0.60	Existing water dip.
0.67	Existing water dip.
0.71	Helicopter landing.
0.78	Existing culvert.
0.84	Existing water dip.
0.90	Existing water dip.
0.91	Helicopter landing.
0.96	Existing water dip, maintain to drain.
1.13	Existing culvert.
1.15	Existing water dip.
1.17	Helicopter landing. End road maintenance.

38-3-16.01 Road – West China Road – Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-16.00. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 6 culverts.
0.05	Existing culvert.
0.13	Existing culvert.
0.19	Existing culvert.
0.27	Existing culvert.
0.43	Helicopter landing.
0.51	Existing culvert.
0.55	Existing culvert.

0.60 Existing turn around. End road maintenance.

38-3-23.01 Road – Bishop Creek Mainline– Agg. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-23.00. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 7 culverts.
0.03	Existing culvert.
0.05	Existing cattle guard.
0.20	Existing culvert.
0.38	Helicopter landing.
0.45	Jct. with 38-3W-23.02 to left.
0.46	Existing culvert.
0.69	Existing culvert.
0.82	Existing culvert.
1.03	Existing culvert w/ downspout.
1.16	Existing culvert w/ downspout.
1.37	Jct. with 38-3W-26.01 to right. Helicopter landing. End road maintenance.

38-3-26.01 Road – Squires Peak – Nat. – Sub: 14Ft – Ditch: 3Ft – X-Sect: Insloped

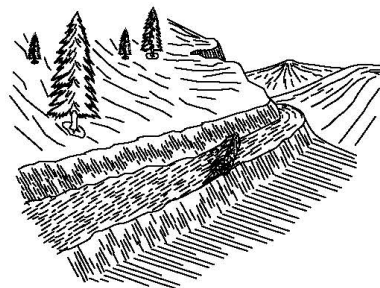
<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-23.01. Begin purchaser maintenance which includes grading entire road length including ditches a total of 2 times; maintaining and keeping drainage open for 8 culverts.
0.15	Existing culvert.
0.34	Existing culvert.
0.40	Existing culvert.
0.44	Existing culvert.
0.46	Existing culvert.
0.57	Existing water dip.
0.61	Existing culvert.
0.75	Existing culvert.
0.78	Existing water dip.
0.91	Existing culvert.
0.92	Jct. with 38-3W-26.02 to right. Helicopter landing. End road maintenance.

38-3-26.02 Road – Squires Peak Spur – Nat. – Sub: 14Ft – Ditch: 0Ft – X-Sect: Insloped

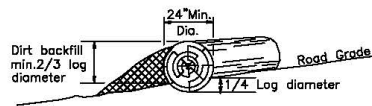
<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3W-26.01. Begin purchaser maintenance which includes grading entire road length a total of 2 times; maintaining and keeping drainage open for 2 culverts.
0.02	Existing gate.
0.04	Existing water dip.
0.10	Existing water dip.
0.16	Existing culvert.

0.22	Existing water dip.
0.27	Existing water dip.
0.35	Existing culvert.
0.38	Helicopter landing. End road maintenance.

EXHIBIT W
SHEET 1 OF 1

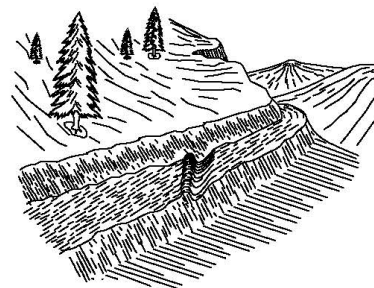
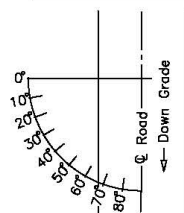


LOG BARRICADE

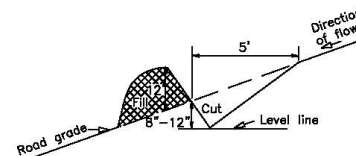


1. LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL BARRICADES SHALL BE SKEWED 30 DEGREES
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.
5. THE MINIMUM SMALL END DIAMETER OF THE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

SKEW DIAGRAM



WATER BAR



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

WATER BAR SPACING *

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

* DISTANCES ARE MAXIMUM.

** ON GRADES IN EXCESS OF 10% CONSTRUCT WATER BARS.

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

DRAINAGE & EROSION
CONTROL INSTALLATION

DRAWN JWR SCALE NONE
DATE August 2013 SHEET 1 OF 1
DRAWING NO. OR-11-9113.4-8