REOFFER

PROSPECTUS

LUMP SUM SALE

GRANTS PASS RESOURCEAREA JOSEPHINE MASTER UNIT

Medford Sale # ORM05-TS-2019-08 November 29, 2018 (DS)

6 Clean Slate (5900) Josephine County, O&C

BID DEPOSIT REQUIRED: \$31,700.00

All timber designated for cutting in Lot 5, W1/2SW1/4 Section 17, NE1/4NW1/4, E1/2SE1/4 Section 21, SW1/4SW1/4 Section 22, Unnumbered Lots (2), W1/2NW1/4 Section 31, T. 38 S., R. 7 W., S1/2NE1/4, SE1/4SW1/4, N1/2SE1/4, SW1/4SE1/4 Section 13, W1/2NE1/4, S1/2SW1/4, W1/2SE1/4 Section 23, T. 38 S., R. 8 W., SE1/4, E1/2SW1/4 Section 3, SE1/4NE1/4 Section 8, N1/2NW1/4, SW1/4NW1/4 Section 9, NW1/4NE1/4, NE1/4NW1/4 Section 10, T. 39 S., R. 7 W., 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
18,070	2,653	Douglas-fir	3,240	\$96.00	\$311,040.00
780	93	Sugar Pine	116	\$42.00	\$4,872.00
96	11	Ponderosa Pine	15	\$38.40	\$576.00
5	0.7	White fir	1	\$37.20	\$37.20
8	0.8	Incense-cedar	1	\$68.60	\$68.60
18,959	2,758.50	Totals	3,373		\$316,593.80

^{*}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.

<u>TIMBER AUCTION LOCATION</u> – The timber auction will be held at the Grants Pass Inter-agency Office, located at 2164 NE Spalding Avenue, Grants Pass, Oregon, at 9 a.m. on Thursday, November 29, 2018.

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.

<u>CRUISE INFORMATION</u> – The Douglas-fir have been cruised using the 3P sampling method to select sample trees. Maps showing the location and description of these sample trees are available at the Grants Pass Interagency Office. The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume. The volume of all other species in this sale has been derived from individual tree measurements taken during a 100% cruise using form class tables for estimating board foot volume of trees in 16-foot logs.

Approximately 2,195 madrone and tanoak trees which are considered to be nonmerchantable are designated for cutting and yarding. With respect to merchantable trees of all conifer species: the average tree is 14.9 inches DBHOB; the average gross merchantable log contains 62 bd. ft.; the total gross volume is approximately 3,908 M bd. ft; and 86% recovery is expected. (Average DF is 15.0 inches DBHOB; average gross merchantable log DF contains 62 bd. ft.)

^{**}The purchase of biomass material is optional. If the Puchaser chooses to purchase biomass/firewood, then it will be modified into the timber sale contract and a fair market price will be established at that time.

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

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

CUTTING AREA – Thirteen (13) units containing 311 (311) acres must be partial cut.

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

<u>ACCESS</u> - Access to the sale area is available via a public road system through the contract area, existing BLM roads, and:

(B)(9) Right-of-Way and Road Use Agreement M-1166 with John Hancock Life Insurance Company.

Among other conditions, this agreement requires, but is not limited to:

- (1) completion of an agreement between the Purchaser and Permitee.
- (2) road maintenance to be completed by the Purchaser.
- (3) arbitration of conditions of road use. The Permitee has indicated they require a rockwear obligation of \$131.10.

(B)(10) Right-of-Way and Road Use Agreement M-1538 with Josephine County Department of Forestry.

Among other conditions, this agreement requires, but is not limited to:

- (1) completion of an agreement between the Purchaser and Permitee.
- (2) road maintenance to be completed by the Purchaser.

ROAD MAINTENANCE - The Purchaser will be required to maintain all of the roads which he constructs plus 20.01 miles of existing BLM and Third Party (Industry) roads. The BLM will maintain 4.68 miles of existing BLM roads. The Purchaser will be required to pay a rockwear fee of \$2,960.83 and maintenance fee of \$2,375.48 for the use of these roads listed in the contract.

ROAD CONSTRUCTION - The contract will require the Purchaser to renovate 1056.51 stations of existing road, and construct/decommission 89.00 stations of temporary routes. Additional information is available in the timber sale prospectus.

<u>SOIL DAMAGE PREVENTION</u> - Pursuant to Section 26 of Form 5450-25, Timber Sale Contract, the Purchaser shall not conduct mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, road construction, temporary route construction, temporary route reconstruction, or temporary route and landing decommissioning in all Harvest Units between October 15 of one calendar year and May 15 of the following calendar year both days inclusive.

Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

Pursuant to Section 26 of Form 5450-25, Timber Sale Contract, the Purchaser shall not conduct any haul on natural surface and rocked roads on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the

transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

EQUIPMENT REQUIREMENTS - A yarding tractor not greater than 9 feet wide as measured from the outer edges of standard width shoes and equipped with an integral arch and a winch for lining logs seventy-five (75) feet. A skyline yarder with a medium (42-54 foot) tower; capable of one-end suspension with a minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul; capable of multi-span; and capable of an external yarding distance of approximately sixteen hundred (1,600) feet slope distance. A minimum two hundred (200) flywheel horsepower tractor with mounted rippers no more than thirty six (36) inches apart and capable of ripping to a depth of eighteen (18) inches will be required for decommissioning temporary routes and utilized skid roads within riparian reserve portions of harvest units.

SLASH DISPOSAL - Slash disposal will consist of handpile and cover, handpile burn and mopup, machine pile and cover, machine pile burn and mop up, cover and burn landing decks, and underburning as described in SD-1 and SD-4 of the Special Provisions. There is an option to provide payment in leiu of burning in C-1 of the Special Provisions.

MACHINE PILE AND BURN all slash reachable from designated skid trails located in Harvest Unit 13-3 (portion). Perform HANDPILE AND BURN on Harvest Units 3-10 (portion), 9-5 (portion), 13-3 (portion), 17-2 (portion), and 23-4 (portion). Perform MACHINE PILE AND BURN LANDING DECKS on Harvest Units 3-9 (portion), 3-10 (portion), 3-11 (portion), 9-5 (portion), 13-3 (portion), 13-4 (portion), 17-2 (portion), 21-8 (portion), 21-12 (portion), 22-5 (portion), 23-3 (portion), 23-4 (portion), and 31-11(portion). Perform UNDERBURNING on Harvest Units 3-9, 3-10 (portion), 3-11, 9-5 (portion), 13-3, 13-4, 17-2 (portion), 21-8, 21-12, 22-5, 23-3, 23-4 (portion), and 31-11. A post logging assessment shall be conducted to determine treatment needs in all units. The initial appraisal prescribed eighteen and one half (18.5) acres of hand cover and burn landing decks, nine (9) acres of machine pile, cover, burn, and mop-up machine piles, eighteen and one half (18.5) acres of pile, cover, burn, and mop-up landing decks, seventy eight and one half (78.5) acres of handpile, cover, burn and mop-up of handpiles, forty three thousand one hundred eighty five (43,185) feet of fire line construction, and two hundred sixty four and one half (264.5) acres of underburning.

<u>OPTIONAL CONTRIBUTION</u> - The purchaser will have the option of performing certain slash disposal requirements or contributing ninety five thousand three hundred fifty six and 5/100 (\$95,356.05) in lieu thereof. The option must be declared upon execution of the contract. The optional contribution must be paid in installments payable in the same manner as and together with payments required in Section 3 of the contract.

<u>CONTRACT TERMINATION</u> - A Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to comply with the Endangered Species Act, or comply with a court order. 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.

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

OTHER -

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.

- In cable yard and hand felled ground based harvest units shown on Exhibit A, all trees designated for cutting shall be felled and whole tree yarded or yarded with tops attached except when excessive stand damage occurs as determined by the Authorized Officer.
- 3. A harvester, feller-processor, or feller-buncher with purpose built carriers with boommounted felling heads and a boom with a minimum lateral reach of twenty (20) feet may be used in the ground based portion of harvest units. Mechanized equipment as stated above with self-leveling cabs may be used on slopes up to 50%, as approved by the Authorized Officer. See the Clean Slate Special Provisions for full ground based harvesting restrictions.
- 4. Cable corridors that are hydrologically connected; or are perpendicular to and within one hundred eighty five (185) feet of streams shown on Exhibit A shall be water-barred and shall have slash placed over them prior to winter rain events to protect water quality.
- 5. Temporary routes constructed or reconstructed and all skid trails and landings within two hundred (200) feet of streams shall be discontinuously sub-soiled with winged ripper, seeded, water-barred, mulched, and blocked prior to October 15th during dry soil conditions upon completion of current harvest and slash disposal treatments.
- 6. Work activities that produce noise above ambient levels that may disturb Northern Spotted Owls would not occur within Harvest Units 3-9, 3-10, 3-11, 13-3, 13-4, 21-8, 21-12, 22-5, 23-3, and 23-4 from March 1 to June 30 both days inclusive. This restriction would be waived if surveys show nesting and/or fledging is not occurring during the time of harvest.
- 7. Work activities that produce noise above ambient levels that may disturb Bald Eagles would not occur within Harvest Units 13-3, 13-4 and 17-2 from February 1 to August 15 both days inclusive. This restriction would be waived if surveys show nesting and/or fledging is not occurring during the time of harvest.
- 8. The purchaser will have the option of performing certain slash disposal requirements or contributing ninety five thousand three hundred fifty six and 5/100 (\$95,356.05) in lieu thereof. The option must be declared upon execution of the contract. The optional contribution must be paid in installments payable in the same manner as and together with payments required in Section 3 of the contract.

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

To access units 3-9, 3-10, 3-11, 9-5, 21-8, 21-12 and 22-5: From Grants Pass, take Highway 199 south to Lakeshore Drive and turn left. Take Lakeshore Drive approximately 4 miles to Thompson Creek Road and turn right. Immediately turn right on the 38-7-17.0 road. Unit 17-2 will be on the right. A BLM key is required to access this unit. Continue up Thompson Creek Road approximately 2 more miles and turn left on the 38-7-21.2 road. Unit 21-12 will be on the right. Turn right on the 38-7-21.3 road to access unit 22-5. Turn left on the 38-7-21.5 road and continue to the end of the road to access unit 21-8. Continue up Thompson Creek Road approximately 3 more miles to a large junction at the top. Turn left on the 39-7-9.1 road to access units 3-9, 3-10 and 3-11. To access unit 9-5, turn right on 39-7-9.2. Units are accessible via BLMroads.

To access units 13-3 and 13-4: From Grants Pass, take Highway 199 south to Lakeshore Drive and turn left. Take Lakeshore Drive approximately 2 miles and turn right on Reeves Creek Road. Drive south on Reeves Creek Road 1 mile and turn right at a gravel pullout on the 38-8-13.0 road. A BLM key is required to access these units.

To access units 23-3 and 23-4: From Grants Pass, take Highway 199 south to Lakeshore Drive and turn left. Take Lakeshore Drive approximately 2 miles and turn right on Reeves Creek Road. Drive south on Reeves Creek Road 3 miles and turn right on the 38-8-27.0 road. A BLM key is required to access these units.

To access unit 31-11: From Grants Pass, take Highway 199 south to Lakeshore Drive and turn left. Take Lakeshore Drive approximately 21/2 miles and turn right on McMullin Creek Road. Drive south approximately 3 miles and turn right on the 39-8-3.0 road. Continue approximately 1 mile and turn right on the 38-7-31.4 road. The unit will be on the left. A BLM key is required to access this unit.

ENVIRONMENTAL ASSESSMENT - An environmental assessment DOI-BLM-OR-M070-2018-0002-EA was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford District Office.

CLEAN SLATE TIMBER SALE

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

- Sec. 41. TIMBER RESERVED FROM CUTTING The following timber on the contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of Government.
- (A) <u>AR-1</u> All timber on the Reserve Areas as shown on Exhibit A and all trees marked with a combination of orange paint, orange flagging, and/or posters which are on or mark the boundaries of the Reserve Areas.
- (B) IR-1 Approximately six thousand five hundred and ten (6,510) Douglas-fir, six hundred-seventy eight (678) oak, one thousand five hundred nineteen (1,519) sugar pine, one hundred sixteen (116) ponderosa pine, two hundred nineteen (219) hardwoods, two hundred fifty three (253) snags and ten (10) incense cedar trees marked with orange paint above and below stump height in the Harvest Area shown on Exhibit A (Trees marked as above may not be cut under Section 42(16) unless specifically approved in advance by the Contracting Officer).
- (C) <u>IR-6</u> All snags in the Harvest Areas shown on Exhibit A. All snags felled for safety reasons shall be retained on site.
- (D) IR-13 All hardwoods in the Harvest Areas shown on Exhibit A except Unit 3-9 (YUM portion), 3-10 (YUM portion), 31-11 (YUM portion) and 22-5 (all) which do not present a safety hazard as determined by the Authorized Officer. Hardwoods not marked with orange paint above and below stump height, which are found to restrict yarding operations, may be yarded to the landing, as approved by the Authorized Officer. Hardwood logs would be decked separately and left on site.
- (E) <u>IR-13</u> All trees in the riparian zone outside Harvest Areas shown on Exhibit A that are cut for operational purposes as shown on Exhibit A shall be retained on site as directed by the Authorized Officer.
- (F) <u>IR-13</u> All trees greater than thirty six (36) inches D.B.H.O.B in the Harvest Area as shown on Exhibit A that are cut for safety or operational purposes shall be retained on site as directed by the Authorized Officer.
- (G) <u>IR-14</u> All pre-existing dead and down logs in the Harvest Area shown on Exhibit A.

Section 42

(A) LOGGING

- (1) <u>L-1</u> Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if he intends to cease operations for any period of seven (7) or more days.
- (2) <u>L-2</u> 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 ensure protection of the environment and watershed. A prework conference between the Purchaser's authorized representative and the Authorized Officer 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) <u>L-4</u> All trees designated for cutting shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.
- (4) <u>L-5</u> All conifer trees eight (8) inches or larger D.B.H.O.B., which are not reserved shall be felled in all Harvest Areas shown on Exhibit A.
- (5) <u>L-5</u> All Pacific Madrone and Tanoak trees between eight (8) inches and fourteen (14) inches D.B.H.O.B., to a six (6) inch top which are not marked above and below stump height with orange paint shall be felled in YUM Yarding Areas shown on Exhibit A. All trees described above which are required to be felled shall be yarded concurrently with yarding of all other species and decked separately.
- (6) <u>L-5</u> Thirty (30) Douglas-fir trees marked with yellow paint above and below stump height in Harvest Unit 23-4 shown on Exhibit A. Trees described above which are required to be felled shall be yarded concurrently with yarding of all other species and decked separately.
- (7) <u>L-8</u> In cable yard and hand felled ground based harvest units shown on Exhibit A, all trees designated for cutting shall be felled and whole tree yarded or yarded with tops attached except when excessive stand damage occurs or the resulting continuous slash depth is expected to exceed eighteen (18) inches as determined by the Authorized Officer. If excessive stand damage occurs or continuous slash

depth is expected to exceed eighteen (18) inches, all trees shall be bucked into log lengths not to exceed forty one (41) feet prior to being yarded.

- (8) <u>L-10</u> In the Harvest Area shown on Exhibit A, all trees designated for cutting shall be directionally felled away from streams, unit boundaries and resource buffers. Use of jacks, wedges, and/or tree pulling with cables or lines shall be employed when necessary to meet this requirement.
- (9) <u>L-12</u> In the Harvest Area shown on Exhibit A, Yarding shall be done in accordance with the yarding requirements or limitations for the designated area listed below.

Designated Area	Yarding Requirements or Limitations
Ground Based Harvest Units	Specialized/ Mechanized harvesting operations are optional. All ground-based harvest units may be manually felled.
3-10, 9-5, 13-3, 13-4, 17-2, 21-8, 21-12, 23-3, 23-4, 31-11	Specialized mechanized felling operations shall be limited to slopes of fifty (50) percent or less except on preexisting skids and short steeper pitches.
	Non specialized mechanized ground based equipment must operate on slopes generally less than thirty-five (35) percent slope except on preexisting skids and short steeper pitches.
	Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(A)(11) of this contract.
	The harvester, feller-processor, or feller-buncher shall be approved by the Authorized Officer prior to the start of mechanized felling operations. Only purpose built carriers with boom-mounted felling heads may be approved. The boom must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible. The purpose-built carrier may be of the articulated, rubber-tired design, or the zero-clearance tail swing leveling track-mounted design.
	The harvest equipment shall walk on existing or created slash as directed by the Authorized Officer. If Purchaser is required to create slash to walk on, then Purchaser shall

Designated Area	Yarding Requirements or Limitations
Ground Based Harvest Units Cont.	not be required to whole-tree-yard.
3-10, 9-5, 13-3, 13- 4, 17-2, 21-8, 21-12, 23-3, 23-4, 31-11	Yarding tractor width shall not be greater than nine (9) feet track width and shall be equipped with an integral arch to suspend one end of the log.
	Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required. Prior to October 15 th , block, rehabilitate and apply erosion control measures to skid trails and landings that are hydrologically connected to perennial steams in units 9-5, 17-2 and 23-4.
	Avoid disturbance to course woody debris. If avoidance is not possible, cut out sections of course woody debris that intersect skid trails.
	Existing skid roads shall be used when possible. Skid roads shall not exceed a width of twelve (12) feet on average per unit and new skid roads shall be placed at least one hundred fifty (150) feet apart where topography will allow, unless the Purchaser proposes an alternate logging plan that limits soil compaction to less than twelve (12) percent, limits soil productivity loss to less than five (5) percent of the harvest unit, and is approved by the Authorized Officer.
	Landing size shall not exceed one-half (1/2) acre, shall be located along existing roads and/or cable-tractor swing routes within unit boundaries, and shall be approved by the Authorized Officer. Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.
	The use of blades while ground based yarding will be limited, equipment shall walk over as much ground litter as possible.
	If trenches, depressions, or excessive disturbance occurs, the Authorized Officer will suspend operations until a remedy is determined.

Designated Area	Yarding Requirements or Limitations		
Cable Yard Units	Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during		
3-9, 3-10, 3-11, 9-5, 13-3, 13-4, 17-2, 21- 8, 21-12, 22-5, 23-3, 23-4, 31-11	inhaul on the yarding corridor. The cable yarding system shall be capable of yarding sixteen hundred sixty six (1,666) feet slope distance.		
	A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy five (75) feet.		
	Yarding corridors will be perpendicular to the contours and located outside of all buffers shown on Exhibit A.		
	Prior to falling any timber in the unit, all tail/lift trees and/or intermediate support trees shall be pre-designated by the Purchaser and approved by the Authorized Officer.		
	Yarding corridor widths shall be approximately 12 feet in width not exceed 15 feet in width.		
	Existing cable corridors shall be used whenever possible.		
	Yarding corridors shall be approximately one hundred fifty (150) feet apart, measured at the tailholds.		
	Landing size shall not exceed one-quarter (1/4) acre, shall be located along existing roads and/or cable-tractor swing routes within unit boundaries where possible, and shall be approved by the Authorized Officer. Short purchaser spurs into units may be necessary to achieve one-end log suspension.		
	Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.		
	Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required.		
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Cable Yard Units Cont.	Cull material yarded to the landing may be required to be redistributed back into the unit.					
3-9, 3-10, 3-11, 9-5, 13-3, 13-4, 17-2, 21- 8, 21-12, 22-5, 23-3, 23-4, 31-11	Cable corridors that are hydrologically connected; or are perpendicular to and within one hundred eighty-five (185) feet of streams shown on Exhibit A in units 3-9, 9-5, 17-2, and 23-4 shall be water-barred and shall have slash placed over them prior to winter rain events					
	Skyline equipment shall be capable of yarding in a multispan configuration.					

- (10) <u>L-14</u> No falling, yarding or loading is permitted in or through the Reserve Area, unless otherwise approved by the Authorized Officer.
- (11) <u>L-14</u> No falling, yarding or loading is permitted in or through the streams, seeps, wetlands, or resource buffers shown on Exhibit A.
- (12) <u>L-19</u> No mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, machine piling or non-emergency road maintenance shall be conducted in the sale area units between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (13) <u>L-19</u> No haul shall be conducted in the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (14) <u>L-20</u> No logging activities that cause noise above ambient levels that may disturb northern spotted owls within units 3-9, 3-10, 3-11, 13-3, 13-4, 21-8, 21-12, 22-5, 23-3, and 23-4 as shown on Exhibit A shall be conducted between approximately March 1 and July 15 (exact dates depend on specific owl activity) of the same

calendar year, both days inclusive. This restriction will not apply if it can be shown from spotted owl protocol surveys conducted in accordance with accepted standards, as approved by the Contracting Officer, that spotted owl nesting and/or fledging activities are not occurring during the time of harvest.

- (15) <u>L-20</u> No logging activities that cause noise above ambient levels that may disturb bald eagles within units 13-3, 13-4, and 17-2 as shown on Exhibit A shall be conducted between February 1 and August 15 of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from bald eagle protocol surveys conducted in accordance with accepted standards, as approved by the Contracting Officer, that bald eagle nesting and/or fledging activities are not occurring during the time of harvest.
- (16) <u>L-24</u> Before cutting and removing any trees necessary to facilitate logging in the Harvest Area shown on Exhibit A, the Purchaser shall identify the location of the 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 with cutting the following conditions must be met:
 - (a) All skid roads and/or cable yarding roads 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 Contracting Officer, the width of each skid road, and/or cable yarding road shall be limited to twelve (12) feet.
 - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads and cable yarding roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear 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 Section 3(b) of the contract or sufficient bonding has been provided in accordance with Section 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 Section 9 of the contract; or, the Authorized Officer determines that the species of trees are not listed in Exhibit B of this contract shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 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 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 Section 8 or Section 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 blacking out blue paint, and/or applying orange 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 prescriptions. This may include the replacement of trees damaged by storm events, or insects or disease. 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.

(17) <u>L-25M</u> Except for logs sold and removed from the contract area, and except for logs reserved in Section 40, all logs from areas specified below and shown on Exhibit A which meet the length and diameter specifications shown below, shall be yarded and decked at the log destination areas described below and shown on Exhibit A. 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 to the following described log destination areas.

Specified Areas	Log Destination Areas	Log Specifications
Harvest Unit 3-9 (7 acre portion)	39-7-3.4 road	Pacific madrone and tanoak trees, which are between eight (8) inches and ten (10) inches D.B.H.O.B., to a six (6) inch top.
Harvest Unit 3-10 (5 acre portion)	39-7-3.6 and 39-7-9.1 roads	Pacific madrone and tanoak trees, which are between eight (8) inches and ten (10) inches D.B.H.O.B., to a six (6) inch top.
Harvest Unit 22-5 (all)	38-7-21.3 road	Pacific madrone and tanoak trees, which are between eight (8) inches and fourteen (14) inches D.B.H.O.B., to a six (6) inch top.
Harvest Unit 31-11 (8 acre portion)	38-7-31.4 road	Pacific madrone and tanoak trees, which are between eight (8) inches and twelve (12) inches D.B.H.O.B., to a six (6) inch top, and greater than forty-five (45) feet tall.
Harvest Unit 23-4 (riparian reserve)	38-8-27.0 road	Thirty (30) Douglas-fir trees, marked with yellow paint, which are between sixteen (16) and twenty six (26) inches

D.B.H.O.B, to a six (6) inch top. Trees shall be decked as thirty two (32) foot logs minimum where feasible, not to exceed forty one (41) feet in length.

(18) <u>L-33</u> Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties in the Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

In the event that the Authorized Officer identifies a conflict between the requirements of this contract or agreed upon methods of proceeding hereunder and State or Federal safety requirements, the contract may be modified. If the cost of such contract modification is of a substantial nature (\$2,000.00 or more), the Purchaser may request, in writing, an adjustment in the Total Purchase Price specified in Section 2 of the timber sale contract, as amended, to compensate for the changed conditions.

Unless otherwise specified in writing, when operations are in progress adjacent to or on roads and/or trails in the Contract Area, Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with adequate warning of and protection from hazardous or potentially hazardous conditions associated with its operations. Purchaser shall prepare a Traffic Control Plan, which the Purchaser has determined is compliant with state and local OSHA and Transportation standards no later than the pre-work meeting and prior to commencing operations. Traffic control devices shall be appropriate to current operating and/or weather conditions and shall be covered or removed when not needed., Flagmen and devices shall be as specified in state OSHA and Transportation standards for logging roads or the "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD) published by the U.S. Department of Transportation - Federal Highway Administration. Included in the Traffic Control Plan, Purchaser shall note traffic control device locations on a Purchaser produced copy of the contract Exhibit "A" Map.

(B) ROAD CONSTRUCTION, MAINTENANCE, AND USE

- (1) <u>R-1</u>: The Purchaser shall construct, improve, renovate, and/or decommission all roads, structures, and temporary routes listed for use under this contract in accordance with the plans and specifications shown on Exhibits C and D, which is attached hereto and made a part hereof.
- (2) <u>R-1a</u>: Any required renovation of roads and structures 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) <u>R-1b</u>: The Purchaser shall construct, reconstruct, use, and decommission temporary routes by October 15th of the same respective operating season.
- (4) <u>R-1c</u>: The Purchaser shall not commence work on road renovation and reconstruction until receipt of written notice to do so from the Authorized Officer. Work shall commence no later than 5 days after such notice, and shall be completed within 1 year after such notice.
- (5) R-2: The Purchaser is authorized to use the roads listed below and shown on Exhibits C and D for the removal of Government timber sold under the terms of this contract, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(B)(6), Section 42(B)(9), and Section 42(B)(10). Any road listed on Exhibit C and 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 and rockwear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length in Miles	Road Control	Surface Type	Maintenance Responsibility
38-8-13.0	0.48	BLM	ASC	Purchaser
38-8-13.4	0.38	BLM	ASC	Purchaser
38-8-13.1	1.06	BLM	NAT	Purchaser
38-8-27.0	3.52	BLM	ASC	Purchaser
38-8-23.0	0.67	BLM	GRR	Purchaser
38-8-23.5	0.33	BLM	GRR	Purchaser
38-7-19.0(A-C)	1.65	BLM	BST	BLM
38-7-19.0(D-E)	0.25	BLM	ABC	Purchaser
39-8-3.0(E)	1.13	BLM	ABC	Purchaser

Road No. and Segment	Length in Miles	Road Control	Surface Type	Maintenance Responsibility
38-7-31.4	0.98	BLM	NAT	Purchaser
38-7-17.0(A)	0.98	BLM	ASC	Purchaser
38-7-17.1	0.48	BLM	NAT	Purchaser
38-7-21.2(A)	1.13	BLM	ASC	Purchaser
38-7-21.5	1.27	BLM	ASC	Purchaser
38-7-21.3	0.60	BLM	ASC	Purchaser
38-7-27.0(A-C)	3.03	BLM	BST	BLM
39-7-9.2	2.47	BLM	ASC	Purchaser
39-7-9.6	0.53	BLM	ASC	Purchaser
39-7-9.1(A)	1.50	BLM	ASC	Purchaser
39-7-3.6(A)	0.95	JHLIC	PRR	Purchaser
39-7-2.1	0.36	COUNTY	NAT	Purchaser
39-7-3.4	0.94	BLM	NAT	Purchaser
Total	24.69			

- (6) R-2b: The Purchaser shall pay the Government a road rockwear fee of **two thousand nine hundred sixty and 83/100 dollars (\$2,960.83)** and a maintenance fee of **two thousand three hundred seventy five and 48/100 dollars (\$2,375.48)** for the transportation of timber included in this contract price over said roads. The above rockwear and maintenance fee amount is for the use of 24.69 miles of road or less. The total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), therefore the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.
- 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 Section 42(B)(5). 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.
- (8) R-2f: 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.

(9) R-3: In the use of Road No. 39-7-3.6(A), the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-1166, between the United States of America and **John Hancock Life Insurance Company** (**JHLIC**). This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road rockwear obligation of **one hundred thirty one and 10/100 dollars** (\$131.10) to John Hancock Life Insurance Company, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.
- (10) R-3: In the use of Road No. 39-7-2.1, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-1538, between the United States of America and **Josephine County Forestry Department**. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (b) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.
- (11) R-3c: The Purchaser agrees that if they elect to use any other private roads, which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and

for allowances for amortization of the Government's share of the capital investment of any such road.

(12) 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.
- 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.

(13) 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 the 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.

(C) ENVIRONMENTAL PROTECTION

- (1) <u>E-1</u> In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:
 - (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging, construction, chipping, grinding, shredding, rock crushing, and transportation equipment prior to entry on BLM lands.
 - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.
 - (c) Only equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of equipment as described above shall be treated the same as the initial move-in.
 - (d) Prior to initial move-in of any equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.
 - (e) Equipment would be visually inspected by the Authorized Officer to verify that the equipment has been reasonably cleaned.
- (2) <u>E-1</u> In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:

Upon decommissioning and prior to fall rains, the Purchaser shall scarify and contour landings and temporary spurs to provide for adequate drainage, then stabilize and revegetate all bare soil with certified weed free straw mulch and a native seed mixture approved by the Authorized Officer. Landings on roads and rocky areas that lack soil for seed germination need not be scarified, seeded or mulched, as determined by the Authorized Officer. The BLM may provide the seed mixture and straw mulch if the purchaser is unable to locate and buy the approved materials from a commercial source. The Purchaser shall reimburse the government for the cost of seed and straw, if provided by the government. 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 roemeri, Koeleria macrantha, Poa secunda, Vulpia microstachys Forbs: Achillea millefolium, Clarkia purpurea, Clarkia homboidea, 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 August 1 and October 15. 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>	Grasses (%)	Forbs (%)
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 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.

- (3) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser would be required to be in compliance with OAR 629-605-0130 of the Forest Practices Act. Notification, removal, transport, and disposal of oil, hazardous substances, and hazardous wastes would be accomplished in accordance with OAR 340-142 (OARD, 2018), and the operator will have a Spill Prevention, Control and Countermeasure Plan (SPCC) in place. The Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (4) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not refuel equipment, store, or cause to have stored, any fuel or other petroleum products within one hundred fifty (150) feet of all riparian management or wet areas. All Petroleum products shall be stored in durable containers and located so that any accidental releases will be contained and not drain into any stream system. Hydraulic fluid and fuel lines on heavy mechanized equipment would be in proper working condition in order to minimize potential for leakage into streams. Absorbent materials shall be onsite to allow for immediate containment of any accidental spills. Spilled fuel and oil shall be cleaned up and disposed of at an approved disposal site.
- (5) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall stay on the surface of the 38-8-27 road in section 27 at all times to avoid impact to a listed plant species.
- (6) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not locate new landings in areas that contribute eroded fines to streams, wet areas, dry draws and swales. If these landing locations cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.
- (7) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall ensure that silt fencing or other sediment control measures are properly placed and maintained during use and periods of non-use when utilizing

landings, skid tails, cable-tractor swing routes or temp routes that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines. Any project-related activity would be suspended if conditions develop that cause a potential for sediment laden runoff to enter a wetland, floodplain or waters of the state. Operations can resume when sediment control devices are in place and conditions allow turbidity standards to be met.

- (8) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, prior to October 15 of the same operating season, winterize temporary routes, landings, hydrologically connected corridors, skid trails and other areas of exposed soils by properly installing and/or using water bars, berms, sediment basins, gravel pads, hay bales, small dense woody debris, seeding and/or mulching, to reduce sediment runoff and divert runoff water away from stream channels, headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer.
- (9) <u>E-1</u> In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall as directed by the Authorized Officer rehabilitate all ground based skid trails utilized within one hundred eighty five (185) feet of streams, all temporary routes, cable-tractor swing routes, and all landings outside of the road prism by one of the following methods:
 - (a) If the Authorized Officer deems ripping will not cause unacceptable damage to the root systems of residual trees the Purchaser shall discontinuously subsoil with winged ripper teeth, simultaneously water bar, seed, mulch, and barricade.
 - 1. Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which, is attached hereto and made a part hereof.
 - 2. Rip to a depth of twelve (12) inches, and no further than thirty six (36) inches apart.
 - 3. Ripping will occur prior to the end of the operating season.
 - 4. Any step landings shall be re-contoured following use, prior to the end of the operating season.
 - (b) If the Authorized Officer deems ripping will cause an unacceptable amount of damage to the root systems of residual trees the Purchaser shall scarify to a depth of up to six (6) inches and simultaneously water bar, seed, mulch, and barricade.

Rehabilitation of temporary routes less than 0.25 miles in length shall occur prior to October 15 of the same operating year.

Rehabilitation of temporary routes greater than 0.25 miles in length shall not occur until after pile burning is complete, prior to October 15.

- (10) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall place material removed during excavation in locations where it cannot enter streams or other water bodies.
- (11) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, upon completion of skidding, pull vegetation over and block skid trails if unauthorized off-highway vehicles (OHV) are identified utilizing the skid trails.
- (12) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall create snags via girdling or other approved methods in riparian reserves as shown on Exhibit A within Harvest Units: 3-9 (4 snags), 3-10 (4 snags), 9-5 (8 snags), 13-3 (28 snags), 13-4 (8 snags), 17-2 (30 snags), 21-12 (4 snags), 21-8 (4 snags), 23-3 (20 snags), 23-4 (28 snags), 31-11 (2 snags). A total of one hundred forty (140) snags shall be created. Of this, seventy (70) snags shall be greater than ten (10) inches Diameter at Breast Height (DBH) and seventy (70) snags shall be greater than twenty (20) inches Diameter at Breast Height (DBH). Snag creation requirements shall be met at the Harvest Unit level as stated above. Any species of tree available could be used to meet this requirement. All snags created shall come from reserve marked trees as described in Section 41 (B) IR-1 above.
- (13) <u>E-2</u> The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C6-1 which is attached hereto and made a part hereof.
- (14) <u>E-3</u> The Purchaser shall immediately discontinue specified construction or harvesting operations upon written notice from the Contracting Officer that:
 - (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;

- (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 Special Status Species Management have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
- (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
- (e) when, in order to comply with a court order, which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
- (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - 1. species have been discovered which were identified for protection through protection buffer standards and guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
 - 2. when, in order to protect species which were identified for protection through protection buffer standards and guidelines established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

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

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

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension extending beyond 30 days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, et seq.). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section (3)(b) of the contract within 15 days after the bill for collection is issued, subject to Section (3)(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, or court-ordered injunctions, the Purchaser agrees that an extension of time, without reappraisal, will constitute a full and complete remedy for any claim that delays due to the suspension hindered performance of the contract or resulted in damages of any kind to the Purchaser.

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

protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

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

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims based on effects on the operation of the contract that arise from litigation against 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.

(15) <u>E-5</u> 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 northern spotted owls may not be allowed during this time period.

Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government will conduct surveys to determine whether owls are nesting within 0.25 miles of the harvest units. If it is determined owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations (in writing). Without this approval, such operations are prohibited from March 1 through August 31 of each year.

(D) MISCELLANEOUS PROVISIONS

(1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling

purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by two thousand five hundred twenty nine and 75/100 dollars (\$2,529.75). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of two thousand five hundred twenty nine and 75/100 dollars (\$2,529.75) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

(E) <u>FIRE PREVENTION</u>

- (1) <u>F-1</u> <u>Fire Prevention and Control.</u> Primarily for purposes of fire prevention and control, the Purchaser shall, 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 Authorized Officer.
- (2) <u>F-1a Fire Prevention and Control</u>. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 - (a) At least three (3) days prior to the operation of power-driven equipment during any 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 Authorized Officer and the State of Oregon Department of Forestry.
 - (b) Provide and maintain on the contract area in good working order, and immediately available, the following equipment for use during closed fire season or periods of fire danger:

- 1. F-2a Firefighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever employees are working on the contract area. All firefighting 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 be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.
- 2. F-2b At each landing or such other place as the Authorized Officer shall designate during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with a minimum of five hundred (500) feet of 1½ inch hose (must be adequate length to reach 200 feet beyond active work sites), six (6) 1½ inch wyes, six (6) 1½ inch to 1 inch reducers, three (3) 1½ inch nozzles and three (3) 1 inch nozzles. One (1) three hundred (300) gallon fire engine may be substituted for each required 300 gallon tank truck, provided that the total capability to pump and deliver water Each fire engine / tank truck shall be remains unchanged. equipped with a pump capable of delivering a minimum of forty (40) gallons per minute (gpm) water flow at one hundred fifty (150) pounds per square inch (psi) engine pressure through fifty (50) feet of 1½ inch fire hose. The pump may be either power take off driven or truck-mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters. At the close of each working day, all bulldozers and fire/tank trucks shall be filled with fuel and made ready for immediate use. All fire/tank trucks shall be filled with water and made available for immediate use.
- 3. <u>F-2c</u> Serviceable cell phone or radio equipment able to provide prompt and reliable communication between the contract area, Medford BLM District Office, and Oregon Department of

Forestry. Such communication shall be available during periods of operation including the time watchman service is required.

- 4. <u>F-2d</u> 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 firefighting and construction of fire lines at night.
- 5. <u>F-2f</u> A headlamp for each employee in the woods crew adequate to provide sufficient illumination for night firefighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. At least one extra set of batteries shall be provided for each such headlight.
- 6. <u>F-2f</u> 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.
- 7. F-2g A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Authorized Officer and a size 0 or larger shovel shall be carried during the closed fire season or periods of fire danger by each falling crew and each bucker 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. 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 Authorized Officer.
- (c) <u>F-5</u> 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.
- (3) <u>F-9</u> During Oregon Department of Forestry regulated use closure, no smoking shall be permitted outside of closed vehicles.

(F) <u>SLASH DISPOSAL</u>

- (1) <u>SD-1 Fire Hazard Reduction.</u> In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measures required by this contract:
 - (a) <u>SD-1c</u> MACHINE PILE AND BURN all slash in machine pile/burn areas shown on Exhibit S in unit 13-3. Slash shall be piled by machine. Piling shall be completed in accordance with Exhibit S as directed by the Authorized Officer. Finished piles shall be tight and free of earth.
 - 1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
 - 2. Slash includes woody material (brush, limbs, tops, unmerchantable stems, or chunks severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
 - 3. All equipment shall be approved by the Authorized Officer. Piling shall be accomplished using a track mounted hydraulic excavator or equivalent with at least a five (5) tooth brush rake. The excavator shall have a minimum reach of twenty (20) feet. The excavator shall be equipped with a hydraulic thumb or rotating controllable grapple head. Finished piles shall be tight and free of dirt and other non woody debris.
 - 4. Machine piling operations are limited to existing skid trails in ground based units; to slopes less than thirty five (35) percent slope for unspecialized equipment and 50% slope for specialized equipment; and to seasonal restrictions described in Sec. 42(A)(11)(L-19).
 - 5. Do not create machine piles within 100 feet of plant sites as shown on Exhibit A.
 - 6. Machine piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.

- 7. Machine piles shall be adequately covered with a cap of ten (10) feet by ten (10) feet of four (4) millimeter black polyethylene plastic. The plastic shall be held in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer.
- 8. All areas that are identified in Exhibit A for ground base yarding that cannot be machine piled would be hand piled.
- 9. Machine piles shall not be placed within fifteen (15) feet of snags, stumps, reserve trees or large woody debris.
- 10. Machine piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
- 11. The Purchaser is required to furnish the fuel and equipment for machine pile burning.
- (b) <u>SD-1c</u> HAND PILE, COVER AND BURN all slash in units 3-10, 9-5, 13-3, 17-2, and 23-4 as shown on Exhibit S. Slash shall be piled by hand. Finished piles shall be tight and free of earth.
 - 1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
 - 2. Hand piles shall be covered with a large enough piece of 4 millimeter thick black plastic to ensure a dry ignition spot (generally 5 feet x 5 feet or large enough to cover 80% of the pile.
 - 3. Hand piles shall not be placed adjacent to or within 10 feet of leave trees or large woody debris.
 - 4. Do not create hand piles within 100 feet of plant sites as shown on Exhibit A.
 - 5. Hand piles shall not be located on roadways, turnouts, shoulders, or cut banks, unless authorized by the Authorized Officer.
 - 6. Burning of hand piles would occur after a sufficient period of curing (generally over a year) and adequate seasonal moisture.

(c) <u>SD-1f</u> Within twenty (20) feet of the edge of each landing pile, all tops, broken pieces, limbs and debris more than one (1) inch in diameter at the large end and longer than two (2) feet in length shall be piled within fourteen (14) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located off of the driving surface of roads and at least fifteen feet (15) from any Reserve Tree and/or as directed by the Authorized Officer.

Upon completion of landing piling, the Purchaser shall prepare the landing piles for burning by constructing a fireline by hand or machine approximately eighteen (18) inches wide and down to mineral soil around each pile to prevent escaped fire. Landing piles shall be less than sixteen (16) feet in height and width. Cover piles with large enough piece of four (4) millimeter thick black plastic to ensure a dry ignition spot, generally ten (10) foot by ten (10) foot. The Purchaser is required to furnish the covering materials. The timing of this covering work shall be in accordance with instructions from the Authorized Officer. If the structure of the landing piles will not permit adequate consumption of piled debris by burning, the Purchaser shall re-pile them at the direction of the Authorized Officer.

- 1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance prior to ignition.
- 2. Landing piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
- 3. Do not create landing piles within 100 feet of plant sites as shown on Exhibit A.
- 4. Landing piles will be burned within twenty four (24) months of harvest completion.
- 5. If purchaser elects to set aside pole/firewood decks and not put the material in landing piles, the purchaser will be required to remove decks before the expiration of cutting rights. Material will be hauled off site for processing. The Authorized Officer will determine location of pole/hardwood decks.
- (2) <u>SD-2</u> Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop up assistance as required herein, and measures required in Sections 42(F)(1)(SD-1) and 42(F)(3)(SD-4). In accordance with written instruction to be issued by the

Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or his designated representative, assist in preparing units for burning, mop-up, and patrol by furnishing, at his own expense, the services of personnel and equipment on each unit as shown below.

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

(a) For Igniting and Burning Machine Pile Unit 13-3

- 1. One (1) person to supervise crew and equipment operators, and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.
- 5. Six (6) drip torches, Forester Sealtite, or equivalent.

(b) Mop-up of Machine Pile Unit 13-3

- 1. One (1) person to supervise crew and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.

- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzles acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

(c) For Igniting and Burning Hand Pile Units 3-10, 9-5, 13-3, 17-2, and 23-4

- 1. One (1) person to supervise crew and equipment operators, and to serve as Purchaser's representative.
- 2. One (1) crew with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.
- 5. Ten (10) drip torches, Forester Sealtite, or equivalent.
- 6. Hand ignition with drip torches is required in pile burn units.
- 7. All ignition personnel will be directly supervised by a BLM representative.

(d) For Mop-up of Hand Pile Units 3-10, 9-5, 13-3, 17-2, and 23-4

- 1. One (1) person to supervise crew and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or other scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

(e) For Igniting and Burning Landing Piles

- 1. One (1) person to supervise crew and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

(f) For Mop-up Landing Piles in Units

- 1. One (1) person to supervise crew and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

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

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project area(s) with the following personal safety equipment: long sleeve natural fabric shirt, full length natural fabric trousers, minimum eight (8)-inch top leather boots, hardhat, and leather gloves. All personnel shall wear long pants and long sleeve shirts, lugsoled leather boots with minimum eight (8)-inch tall uppers that provide ankle support, approved hardhat, and leather gloves. On the day of ignition, clothing shall be of approved aramid fabric, NomexTM or equivalent, and all personnel shall carry an approved fire shelter. Clothing shall be free of diesel fuel oil.

All listed tools and equipment shall be in good usable condition. All power driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power- driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop up on each hand/machine piled unit and landing decks, four hundred fifty (450) hours as directed by the Authorized Officer within a 10 days beginning 8:00 a.m. the day following completion of ignition in that unit or until released from such services by the Authorized Officer, whichever occurs first.

In the event of a fire escapement, Purchaser's personnel and equipment shall, under supervision of the Authorized Officer, take action to suppress, including control and mop-up, the escaped fire until released from such service by the Government. If it becomes necessary to suppress a fire which escapes from the prescribed fire area for a period beyond midnight of ignition day, then the Government shall, at its option:

- (a) reimburse Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for Western Area and at equipment rates shown in current Oregon-Washington Interagency Fire Fighting Equipment Rental Rates schedule, until the Purchaser is released from such service by the Government, or+
- (b) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

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

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

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

equipment to accomplish planned burning, the Purchaser also shall be responsible for such additional costs.

- (3) <u>SD-4 Logging Residue Reduction</u>. In addition to the requirements of Secs. 15 and 25 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 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 measures required by this contract:
 - (a) Perform <u>UNDERBURNING</u> in units 3-9, 3-10, 3-11, 9-5, 13-3, 13-4, 17-2, 21-8, 21-12, 22-5, 23-3, 23-4 and 31-11 as shown on Exhibit S.

Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop up assistance as required herein, and measures required in Sections 42(F)(1)(SD-1) and 42(F)(3)(SD-4). In accordance with written instruction to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or his designated representative, assist in preparing units for burning, mop-up, and patrol by furnishing, at his own expense, the services of personnel and equipment on each unit as shown below.

- 1. All crews shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crew members.
- 2. Underburn units shall follow the Resource, Prescribed Fire Objectives and Constraints (Element 5 Objectives) for each underburn unit as outlined in Prescribed Fire Burn Plan and as directed by the Authorized Officer or BLM representative.
- 3. Smoke clearance will be obtained the day prior to planned ignition for all burn units.
- 4. Prescribed burning shall be conducted in a manner that will minimize damage to reserve trees, duff, soil, and to avoid loss of large/coarse woody debris and will be consistent with ecosystem management objectives out-lined in the burn plan.

- 5. Firelines will be constructed by hand to mineral soil to a minimum of eighteen (18) inches wide and a maximum of three (3) feet wide.
- 6. Create a minimum fuel break of ten (10) feet on the underburn side of the fire line and six (6) feet on the unburned side of the fire line by removing logging slash or live vegetation under eight (8) inches diameter at the large end or at eight (8) inch diameter at breast height.
- 7. Slash shall be dispersed in a discontinuous pattern a minimum of fifteen (15) feet away from the fire line within or outside the unit boundary as directed by the Authorized Officer or BLM representative.
- 8. Limit fire lines inside Riparian Reserves. On very steep ground where runoff could enter waterways incorporate water bars as directed by the authorized officer.
- 9. Fire lines shall be constructed within thirty (30) days of notification by the Authorized Officer. Water bars shall be constructed and maintained on the fire lines to the satisfaction of the Authorized Officer.
- 10. The Purchaser is required to furnish the fuel and equipment for underburning.

(b) For Igniting and Holding Underburn Units

- 1. One (1) person to supervise crews and equipment operators, and to serve as Purchaser's representative.
- 2. Two (2) crews with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tractor/dozer operator.
- 4. Three (3) tank truck drivers.
- 5. One (1) tractor (Caterpillar D6 or equivalent) equipped with straight solid blade.

- 6. Three (3) tank trucks. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck(s) and tank(s) shall be in good working order and shall be filled with water.
- 7. Sixteen (16) drip torches, Forester Sealtite, or equivalent.
- 8. Hand ignition with drip torches is required in underburn units.
- 9. All ignition personnel will be directly supervised by a BLM representative.
- 10. For Mop-up of Underburn Units
- 11. One (1) person to supervise crew and equipment operators, and to serve as Purchaser's representative.
- 12. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis or other scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 13. One (1) tank truck driver.
- 14. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

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

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project area(s) with the following personal safety equipment: long sleeve natural fabric shirt, full length natural fabric trousers, minimum eight (8)-inch top leather boots, hardhat, and leather gloves. All personnel shall wear long pants and long sleeve shirts, lugsoled leather boots with minimum eight (8)-inch tall uppers that provide ankle support, approved hardhat, and leather gloves. On the day of ignition, clothing shall be of approved aramid fabric, NomexTM or equivalent, and all personnel shall carry an approved fire shelter. Clothing shall be free of diesel fuel oil.

All listed tools and equipment shall be in good usable condition. All power driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power- driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop up on each underburn unit shown on Exhibit S for six hundred forty (640) hours as directed by the Authorized Officer within a 10 days beginning 8:00 a.m. the day following completion of ignition in that unit or until released from such services by the Authorized Officer, whichever occurs first.

In the event of a fire escapement, Purchaser's personnel and equipment shall, under supervision of the Authorized Officer, take action to suppress, including control and mop-up, the escaped fire until released from such service by the Government. If it becomes necessary to suppress a fire which escapes from the prescribed fire area for a period beyond midnight of ignition day, then the Government shall, at its option:

- (a) reimburse Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for Western Area and at equipment rates shown in current Oregon-Washington Interagency Fire Fighting Equipment Rental Rates schedule, until the Purchaser is released from such service by the Government, or+
- (b) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

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

up work on all escaped fire areas concurrently with mop up work on the prescribed fire area.

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

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

- (4) <u>SD-5</u> The Purchaser shall perform logging residue reduction and site preparation work on approximately one hundred six (106) acres of harvest area located in Harvest Units as shown on Exhibit A.
 - (a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treatment	Cost/Acre
Hand Pile and Cover	\$325.00
Hand Pile Burn and Mop-up	\$42.00
Machine Pile and Cover	\$375.00
Machine Pile Burn and Mop-up	\$28.00
Cover and Burn Landing Decks	\$56.00

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

			Total Cost
Appraised Treatment	Acres	Cost/Acre	Per Treatment
Handpile and Cover	78.5	\$325.00	\$25,512.50
Hand Pile Burn and Mop-up	78.5	\$42.00	\$3,297.00
Machine Pile and Cover	9.0	\$375.00	\$3,375.00
Machine Pile Burn and Mop-up	9.0	\$28.00	\$252.00
Cover and Burn Landing Decks	18.5	\$56.00	\$1,036.00
Total Appraised Cost	106.0		\$33,472.50

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to Section 42(F)(4)(SD-5)(a) differs from thirty three thousand four hundred seventy two and 50/100 dollars (\$33,472.50), as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(F)(4)(SD-5)(a).
- (d) Machine pile and machine pile burning shall be done in accordance with Sections 42(F)(1)(a)(SD-1c) and 42(F)(2)(SD-2)(a&b), handpile and burn handpiles shall be done in accordance with Section 42(F)(1)(b)(SD-1c) and 42(F)(2)(SD-2)(c&d), and pile and burn landing decks shall be done in accordance with Sections 42(F)(1)(c)(SD-1f) and 42(F)(2)(SD-2)(e&f).

(G) CONTRIBUTIONS

C-1 The Purchaser shall perform UNDERBURNING in accordance with 42(F)(2)(SD-2)(g&h) and 42(F)(3)(SD-4)(a). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of fifty nine thousand five hundred twelve and 50/100 (\$59,512.50), 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.

C-1 The Purchaser shall perform FIRELINE CONSTRUCTION in accordance with 42(F)(2)(SD-2)(g&h) and 42(F)(3)(SD-4)(a). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of thirty five thousand eight hundred forty three and 55/100 (\$35,843.55), 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.

(H) <u>LOG EXPORTS</u>

(1) LE-1 All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export from the United States in the form of unprocessed timber, and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters (834) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timber, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three quarters (83/4) inches in thickness or less; (6) shakes and shingles.

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

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

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

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

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

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

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

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

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

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

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

Clean Slate T.S. Seasonal Restriction Matrix ORM07-TS-18-08

Unrestricted Period	Restricted To Dry Condition	Restricted To Dry Condition Waiver Required	Bald Eagle Restricted Period, No Operations	NSO Restricted Period (May be waived if NSO protocol surveys determine owls are not nesting)	NSO Restricted Period (May be shortened or extended if owls are nesting)	NSO and Bald Eagle Restricted Period
			3	M/O	a/o	0/E

^{*} Operations will be suspended if unacceptable damage to residual trees occur.

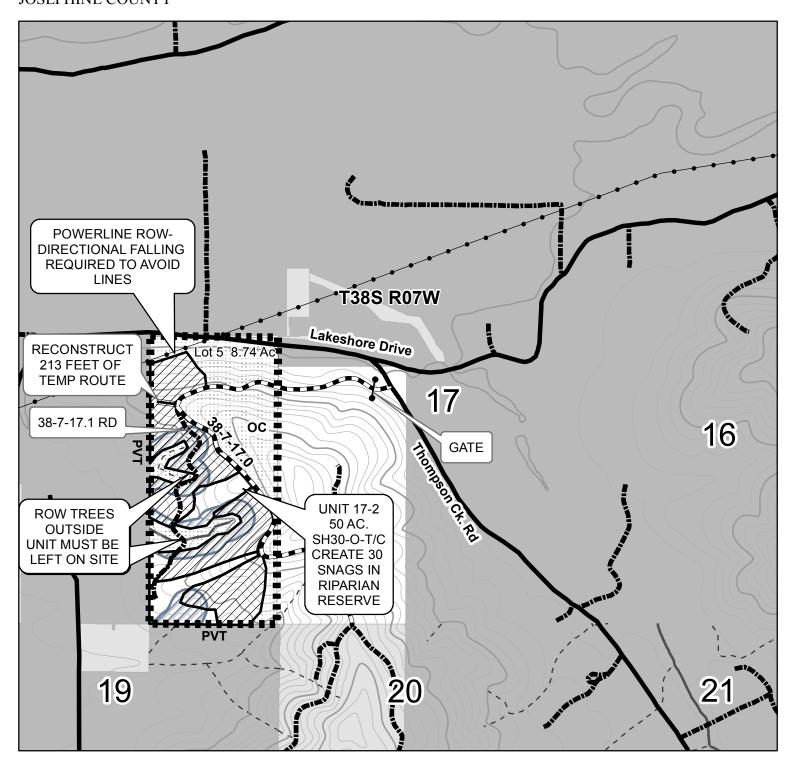
DDY Condition Haul = Loading, hauling, and certain non-emergency road maintenance activities (including blading of aggregate roads, rocking, and cross drain installation) would not occur on hydrologicallyconnected rocked or natural surface roads when water is flowing in the ditchlines or during any conditions that would result in any of the following: surface displacement such as rutting or ribbons; continuous mud splash or tire slide; fines being pumped through road surfacing from the subgrade and resulting in a layer of surface sludge; road drainage causing a visible increase in stream turbidities; or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events. Hauling on natural surface or hydrologically-connected rocked roads would not resume for a minimum of 48 hours following any storm event that results in 1/2 inch or more precipitation within a 24 hour period, and until road surface is sufficiently dry to prevent any of the above conditions from reoccurring. Dry Condition Ground-based harvesting and Temporary Route work = Ground-based harvesting & yarding, temporary route work, and rehabilitation activities would not occur when soil moisture at a depth of 4-6 inches is wet enough to maintain form when compressed, or when soil moisture at the surface would readily displace, causing ribbons and ruts along equipment tracks. These conditions are generally found when soil moisture at a depth of 4-10 inches is between 15-25% depending on soil type.

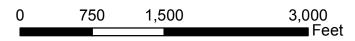
		Jan	Feb	_	Mar		Apr		Мау	,	Jun		Jul		Aug	S	Sep	Oct	Nov	>	Dec	
Sale Area	Activity	1 15	1	15	1 15	-	1	15	1	15	1 15 1 15	15	1		1 15 1 15	5 1	15	1 15	1 15	15	1 15	2
	Manual Falling and Bucking*)	o m/o	o/w c	0/w) w/o	M/O	M/O	M/O) M/O) M/O	o/p	a/o a/o	Q						
Cable Vard Ilnit	Cable Yarding*)	o w/o	o/w c	0/w	0/w	w/o w/o		M/O	o/w	a/o M/o	ם/כ	a/o a/o	D						
w/ NSO	Loading and Hauling			0	o/w o	o/w c	0/w (0/w (0/w (o/w	o/w	0/w (o/w c	o/p c	0/D 0/D	Q						
Restrictions:	Temp. route/ landing const., All																					
3-9, 3-11, 22-5	rehabilitation activities, Rd			0	0/w/o	0/w	0/w	W/0	w/o	»/o	w/o	M/0	M/C	2/0/0	a/o a/o a/o m/o m/o	۵					_	
	Maintenance**																					
Cable/ Ground	Manual Falling and Bucking*				o w/o	o/w	0/w	0/w	M/O	w/o	w/o	w/o w/o) W/C	0/p	a/o a/o						-	
Based Yard Unit	Cable Yarding*)	o w/o	o/w c	0/w	o/w	M/O	M/O	M/O	M/O	o/w	o/p c	a/o a/o	D						
w/ NSO	Yarding			0	o w/o	o/w c	0/w (0/w (0/w	o/w	M/O	W/0	0/w 0/w 0/D)/p	a/o a/o	Q						
Restrictions:	Loading and Hauling			0	o w/o	0/w c	0/w	w/o w/o w/o	M/C		m/o	M/0	a/o m/o m/o)/D	a/o a/o	٥						
3-10, 21-8, 21-12,	3-10, 21-8, 21-12, Temp. Route Construction, All													- 1	-,							
23-3, 23-4	Rehabilitation Activities & Road			0	o/w o	0/w C	0/w (o/w o/w o/w	M/C		0/w	w/o) W/C) d/c	0/w 0/w 0/D 0/D 0/D	Ω						

^{**} In-stream work periods for culvert cleaning are June 15th- September 15th

		Jan		Feb	Σ	Mar	Apr		May	٨١	Jun		Jul		Aug		Sep	Oct		Nov	Dec	
Sale Area	Activity	1	15 1	15	1	15	1	15	1	15	1	15	1	15	1 1	15 1	15	1 15	5 1	15	1 1	15
	Manual Falling and Bucking*		ш	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	E	E	E						
Cable/ Ground	Cable Yarding*		Е	Е	Е	Е	В	3	Е	Е	Е	В	Е	E	E	Е						
Based Yard Unit	Yarding		E	E	Е	Е	E	3	Е	Е	Е	Е	Е	E	E	E						
w/ Bald Eagle	Loading and Hauling		ш	ш	Е	ш	ш	3	ш	ш	Е	Е	ш	_	Ш	ш						
Restrictions:	Temp. Route Construction, All																					
17-2	Rehabilitation Activities & Road		ш	Ш	Ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш						
	Maintenance**																					
	Manual Falling and Bucking*		Е	Е	O/E	O/E	O/E	Э/O	O/E	O/E	O/E	O/E	O/E (O/E O	O/E O	O/E						
Cable/ Ground	Cable Yarding*		ш	Ш	O/E	O/E	O/E	Э/О	O/E	O/E	9/E	O/E	O/E (O/E O	O/E O	O/E						
	Ground-based Harvesting &		ш	ш	O/E	O/E (O/E O	O/E O/E	ш													
Eagle Restrictions:	Loading and Hauling		ш	ш	O/E	O/E	O/E	O/E	0/E	O/E	O/E	O/E	O/E	0/E 0	0/E 0,	O/E			+		t	
13-4	Rehabilitation Activities & Road		П	В	O/E	O/E (O/E O	O/E 0,	O/E													
	Manual Falling and Bucking*		Е	Е	O/E	O/E	O/E	J/O	0/E	O/E	0/E	M/0) w/o	o/p o	a/o a/o	Q,						
מ ליינים	Cable Yarding*		ш	ш	O/E	O/E	O/E	Э/О	0/E	O/E	0/E	M/o) M/O	'0 д/о	a/o a/o	Q						
	Ground-based Harvesting & Yarding		Е	ш	O/E	m/o	0/w	o d/o	a/o a/o	٥												
Eagle restrictions:	Loading and Hauling		Ш	П	O/E	O/E	O/E	Э/О	O/E	O/E	0/E	M/o) M/o	'0 д/о	a/o a/o	Q,						
	Temp. Route Construction, All																					
	Rehabilitation Activities & Road		ш	ш	O/E	O/E	0/E	O/E	O/E	O/E	O/E	<u></u> ∧/o	0/w 0/D	0/0	0/p 0/p	٥						
	Maintenance**																					

U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 7 W., SEC.17 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 1 OF 8

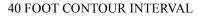




1 inch = 1,000 feet



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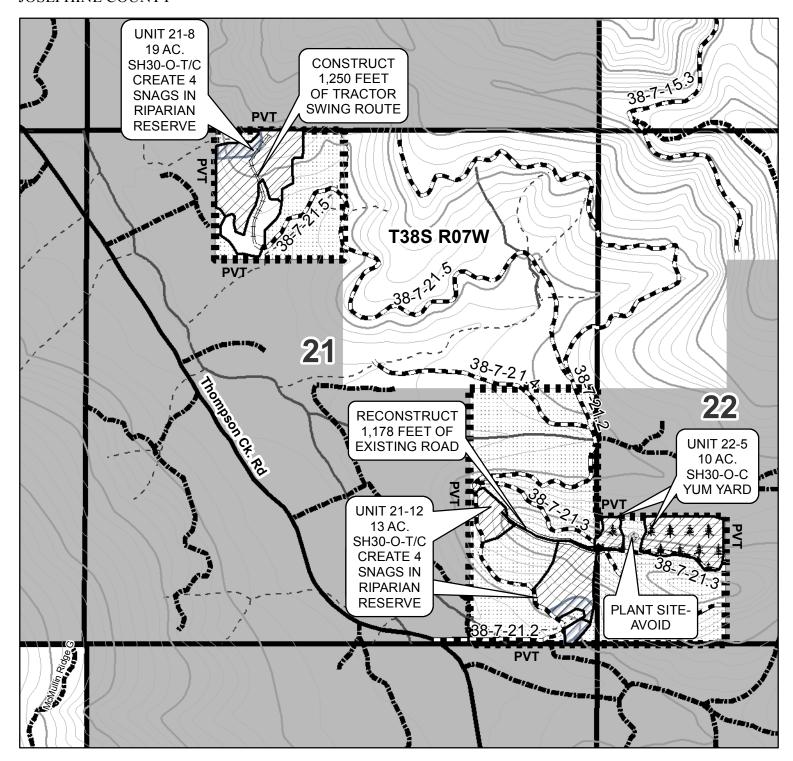


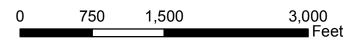
Map created by DES 5/7/18



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 7 W., SEC.21 and 22 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 2 OF 8





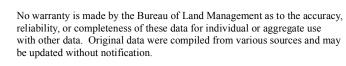
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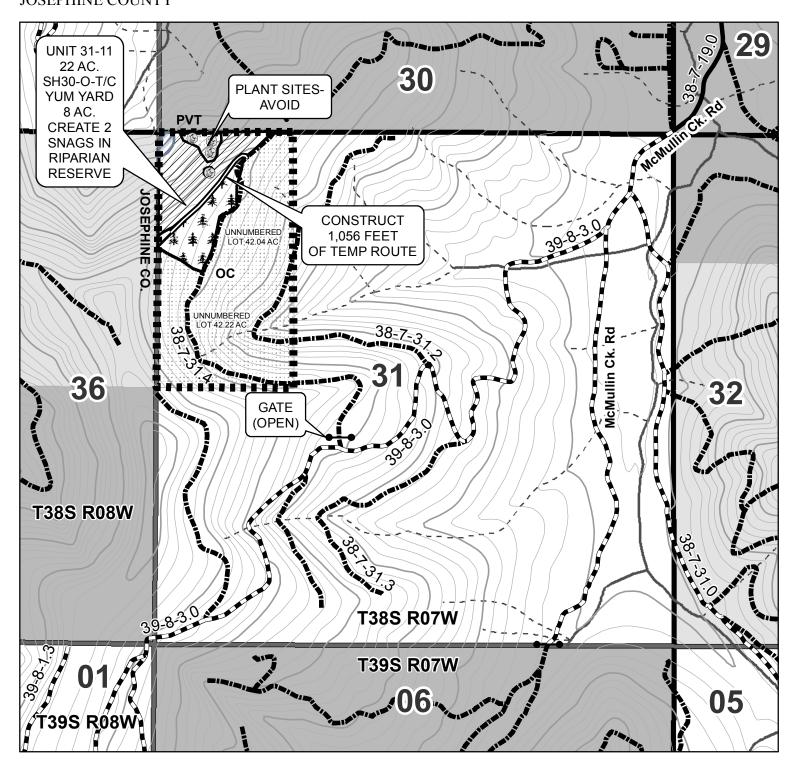


Map created by DES 5/7/18





U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 7 W., SEC.31 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 3 OF 8





1 inch = 1,000 feet

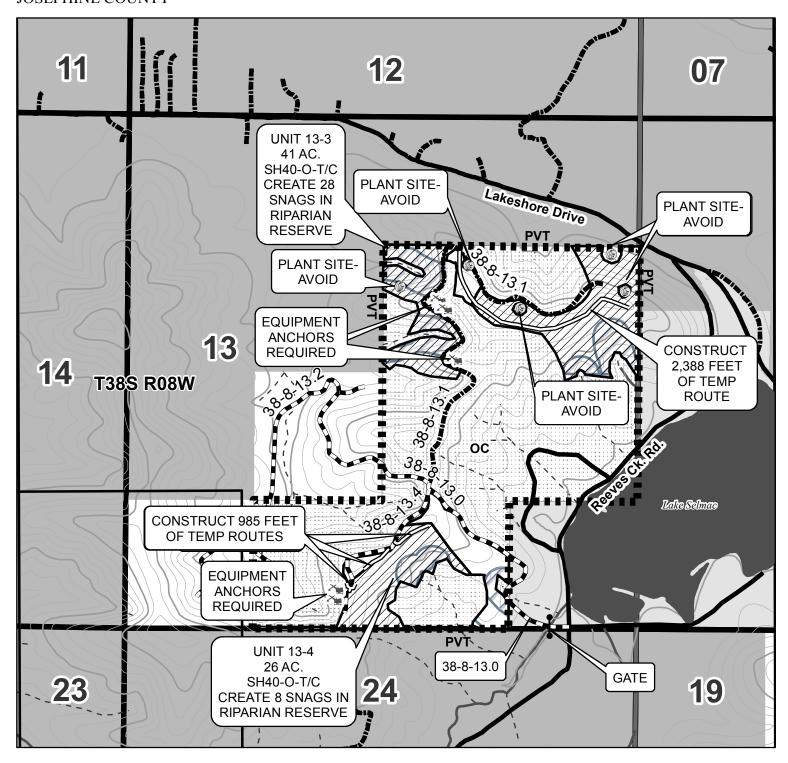
40 FOOT CONTOUR INTERVAL

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1 inch = 1,000 feet



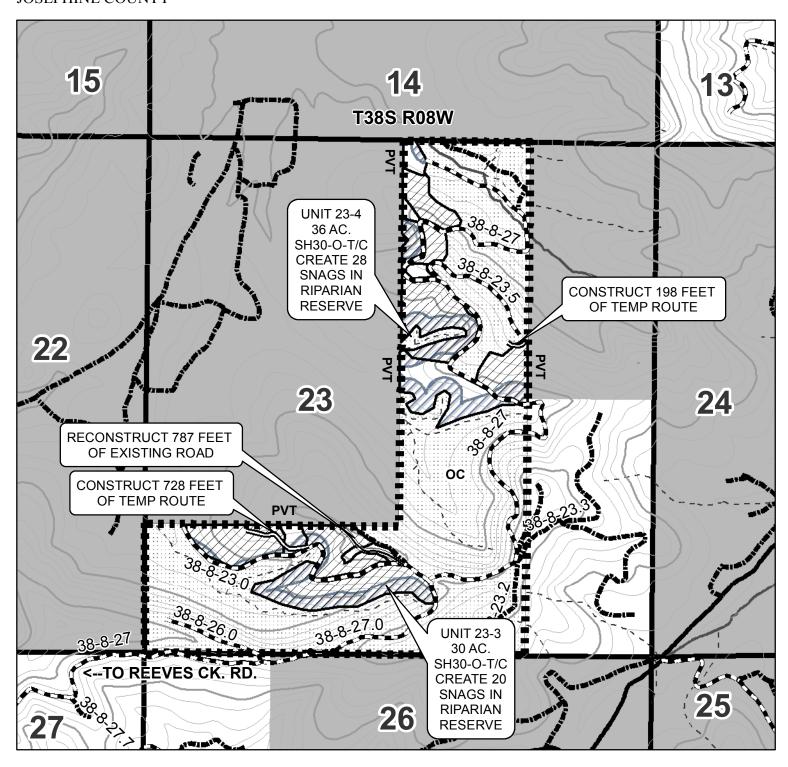
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U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 8 W., SEC.23 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 5 OF 8

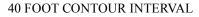




1 inch = 1,000 feet



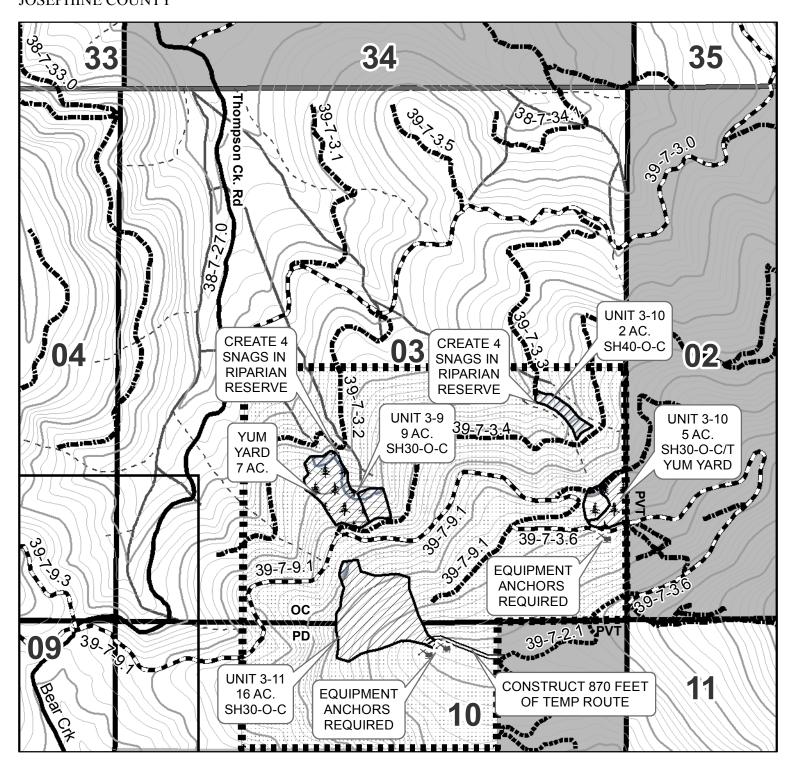
United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200

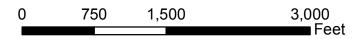


Map created by DES 5/7/18



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 39 S., R. 7 W., SEC.3 &10 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 6 OF 8





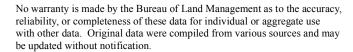
1 inch = 1,000 feet

40 FOOT CONTOUR INTERVAL

Map created by DES 7/3/18

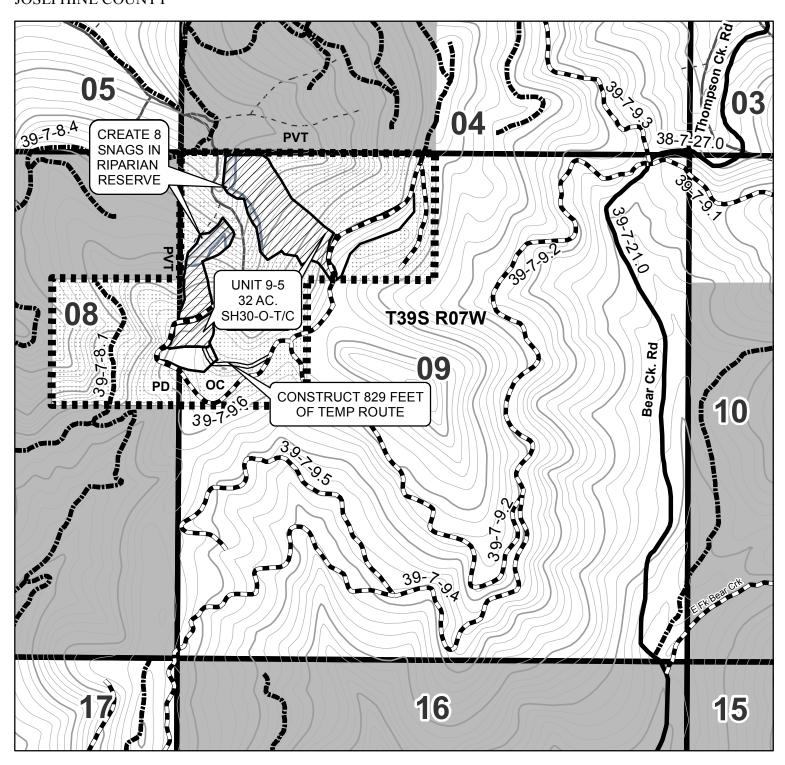
United States Department of the Interior
Bureau of Land Management
Medford District Office
3040 Biddle Road
Medford, OR 97504
(541) 618-2200

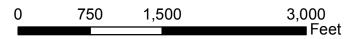




U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 39 S., R. 7 W., SEC.8 & 9 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 7 OF 8

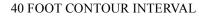




1 inch = 1,000 feet



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U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08

T. 38 S., R. 7 W., SEC.17, 21, 22, 31 WILL. MER.

T. 38 S., R. 8 W., SEC.13, 23 WILL. MER.

T. 39 S., R. 7 W., SEC. 3, 8, 9, 10 WILL. MER.

CLEAN SLATE TIMBER SALE

JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 8 OF 8

Langua	
Legend	
Plant Sites- Avoid	Proposed Temp Routes
Powerlines-Avoid	New construction
Equipment Anchors Required	Reconstruction
● —● Gate	── Tractor Swing
200 Foot Index Contours	Roads By Surface Type
——— 40 foot Intermediate Contours	Rocked Road
Contract Area Boundary	Paved Road
Reserve Area	■■■■ Natural Surface Road
Clean Slate Streams	Ownership
– – Intermittent	Bureau of Land Management
Perennial	Local Government
Riparian Reserves	Private Individual or Company
Clean Slate Logging Systems	Township and Range
Cable	Sections
Tractor	
☀☀ YUM Yarding Required	

UNIT	Unit Acres	Unit Acres by Logging System	Prescription- Paint Color- Logging System
3-9	9	C (9)	SH30-O-C
3-10	7	C (5) T (2)	SH30-O-C/T
3-11	16	C (16)	SH30-O-C
9-5	32	C (24) T (8)	SH30-O-C/T
13-3	41	C (39) T (2)	SH40-O-C/T
13-4	26	C (15) T (11)	SH40-O-C/T
17-2	50	C (38) T (12)	SH30-O-C/T
21-8	19	C (14) T (5)	SH30-O-C/T
21-12	13	C (12) T (1)	SH30-O-C/T
22-5	10	C (10)	SH30-O-C
23-3	30	C (27) T (3)	SH30-O-C/T
23-4	36	C (23) T (13)	SH30-O-C/T
31-11	22	C (13) T (9)	SH30-O-C/T
SALE TOTAL	311	C (245) T (66)	

ALL ACRES COMPUTED BY GPS TRAVERSE.

BOUNDARIES OF HARVEST UNITS ARE POSTED WITH "BOUNDARY OF TIMBER RESERVE" TAGS AND PAINTED IN ORANGE. SH30= SELECTION HARVEST TO 30% CANOPY COVER SH40= SELECTION HARVEST TO 40% CANOPY COVER C= CABLE YARD

T=TRACTOR YARD

0=ORANGE MARK RESERVE TREES

	Summary	Acres
SH40-O-C/T	Selection Harvest to 40% Canopy Cover-Orange Mark-Cable/Tractor Yard (Units 13-3, 13-4)	67
SH40-O-C	Selection Harvest to 40% Canopy Cover-Orange Mark-Cable Yard (Unit 3-10, RR portion)	2
SH30-O-C	Selection Harvest to 30% Canopy Cover- Orange Mark-Cable Yard (Units 3-9, 3-11, 22-5)	35
SH30-O-C/T	Selection Harvest to 30% Canopy Cover- Orange Mark-Cable/ Tractor Yard (Units 3-10, 9-5, 17-2, 21-8, 21-12, 23-3, 23-4, 31-11)	207
	Total Timber Sale Unit Area	311
	Reserve Area	982.04
	Total Contract area	1,293.04





United States Department of the Interior Bureau of Land Management

Timber Appraisal

Sale Name: Clean Slate Re-offer Sale Date: Thursday, November 29, 2018

BLM District: Medford DOUnit of Measure:16' MBFContract #:ORM07-TS-2019.0008Contract Term:36 months

Sale Type: Advertised Contract Mechanism: 5450-3

Sale of Timber - Lump Sum

Content

Timber Appraisal Summary Stumpage Summary Unit Summary Stump to Truck Transportation

Engineering Allowances

Other Allowances

Prepared By: Caulfield, David J **Approved By:** Caulfield, David J

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Josephine	385	7W	17	Lot 5, W1/2SW1/4	Willamette
O&C	Josephine	385	7W	21	NE1/4NW1/4, E1/2SE1/4	Willamette
PD	Josephine	38S	7W	22	SW1/4SW1/4	Willamette
O&C	Josephine	38S	7W	31	Unnumbered lots W1/2NW1/4	Willamette
O&C	Josephine	38S	8W	13	S1/2NE1/4, SE1/4SW1/4, N1/2SE1/4, SW1/4SE1/4	Willamette
O&C	Josephine	385	8W	23	W1/2NE1/4, S1/2SW1/4, W1/2SE1/4	Willamette
O&C	Josephine	395	7W	3	SE1/4, E1/2SW1/4	Willamette
O&C	Josephine	395	7W	8	SE1/4NE1/4	Willamette
O&C	Josephine	395	7W	9	N1/2NW1/4, SW1/4NW1/4	Willamette
PD	Josephine	39S	7W	10	NW1/4NE1/4, NE1/4NW1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	3,240.0	3,666.0	3,765.0	59,019	2,221	18,070
Sugar Pine	116.0	122.0	125.0	2,150	121	780
Ponderosa Pine	15.0	15.0	16.0	269	24	96
White Fir	1.0	1.0	1.0	16	0	5
Incense-cedar	1.0	1.0	1.0	17	0	8
Totals	3,373.0	3,805.0	3,908.0	61,471	2,366	18,959

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre	
0.0	311.0	0.0	311.0	10.8	

Logging Costs	
Stump to Truck	\$786,216.42
Transportation	\$250,330.95
Road Construction	\$120,664.20
Maintenance/Rockwear	\$39,798.51
Road Use	\$0.00
Other Allowances	\$157,812.11
Total:	\$1,354,822.19
Total Logging Cost per MBF:	\$401.67

Utilization Centers

Location	Distance	% of Net Volume				
Glendale, OR	56.0 miles	100 %				
	Profit & Ris	k				
Basic Profit & Ri	Basic Profit & Risk					
Additional Risk		3 %				
Total Profit & R	isk	12 %				

Tract Features

Quadratic Mean DBH	14.9 in
Average GM Log	62 bf
Average Volume per Acre	10.8 mbf
Recovery	86 %
Net MBF volume:	
Green	3,373.0 mbf
Salvage	0 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	21 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft
Cable Logging:	
Percent of Sale Volume	79 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft
Aerial Logging:	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

Cruise

Cruise Completed June 2018
Cruised By Caulfield, Cannon
Cruise Method

Douglas fir was cruised using the 3P cruise method. All other species were cruised using the BLM100% cruise method.

Incense-cedar

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF		Appraised Value
Douglas Fir	18,070	3,240.0	\$560.69	\$67.28	\$401.67	\$4.25	\$96.00		\$311,040.00
Sugar Pine	780	116.0	\$419.29	\$50.31	\$401.67	\$0.00	\$42.00	*	\$4,872.00
Ponderosa Pine	96	15.0	\$383.52	\$46.02	\$401.67	\$0.00	\$38.40	*	\$576.00
White Fir	5	1.0	\$371.41	\$44.57	\$401.67	\$0.00	\$37.20	*	\$37.20
Incense- cedar	8	1.0	\$534.40	\$64.13	\$401.67	\$0.00	\$68.60		\$68.60
Totals	18,959	3,373.0							\$316,593.80

^{*} Minimum Stumpage values were used to compute the Appraised Price/MBF (10% of Pond Value)

		Per	cent of Volume	By Log Grad	le		
Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir			3.0 %	50.0 %	41.0 %	6.0 %	
Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Sugar Pine			1.0 %	52.0 %	39.0 %	8.0 %	
Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Rur
Ponderosa Pine				45.0 %	48.0 %	7.0 %	
Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
White Fir				42.0 %	50.0 %	8.0 %	
Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run

35.0 %

52.0 %

13.0 %

Marginal Log Volume By Grade

Species	Utility Cull	Peeler Cull	
Douglas Fir	0	98	

Clean Slate Re-offer

Unit Summary

ORM07-TS-2019.0008

Unit: 3-9

Species		Net	Gross Merch	Gross	# of Trees
Douglas Fir		103.0	117.0	120.0	367
Sugar Pine		1.0	1.0	1.0	1
	Totals:	104.0	118.0	121.0	368

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

Unit: 3-10

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	78.0	88.0	91.0	217
Totals:	78.0	88.0	91.0	217

Net Volume/Acre: 11.1 MBF

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

Unit: 3-11

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	223.0	252.0	259.0	753
Sugar Pine	5.0	5.0	6.0	14
White Fir	1.0	1.0	1.0	5
Incense-cedar	1.0	1.0	1.0	8
Totals:	230.0	259.0	267.0	780

Net Volume/Acre: 14.4 MBF

Regeneration Harvest	0.0
Partial Cut	16.0
Right of Way	0.0
Total Acres:	16.0

Unit: 9-5

Species	Ne	et	Gross Merch	Gross	# of Trees
Douglas Fir		311.0	351.0	361.0	1,112
Sugar Pine		5.0	5.0	6.0	10
To	tals:	316.0	356.0	367.0	1,122

Net Volume/Acre: 9.9 MBF

Total Acres:	32.0
Right of Way	0.0
Partial Cut	32.0
Regeneration Harvest	0.0

Unit: 13-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	434.0	491.0	504.0	3,042
Sugar Pine	27.0	29.0	29.0	196
Ponderosa Pine	1.0	1.0	2.0	14
Totals:	462.0	521.0	535.0	3,252

Net Volume/Acre: 11.3 MBF

Regeneration Harvest	0.0
Partial Cut	41.0
Right of Way	0.0
Total Acres:	41.0

Unit: 13-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	237.0	268.0	275.0	1,845
Sugar Pine	8.0	8.0	9.0	75
Ponderosa Pine	1.0	1.0	1.0	11
Totals:	246.0	277.0	285.0	1,931

Net Volume/Acre: 9.5 MBF

Regeneration Harvest	0.0
Partial Cut	26.0
Right of Way	0.0
Total Acres:	26.0

Unit: 17-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	660.0	749.0	769.0	3,748
Sugar Pine	38.0	40.0	39.0	180
Ponderosa Pine	2.0	2.0	2.0	14
Totals:	700.0	791.0	810.0	3,942

Net Volume/Acre: 14.0 MBF

Regeneration Harvest	0.0
Partial Cut	50.0
Right of Way	0.0
Total Acres:	50.0

Unit: 21-8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	256.0	290.0	298.0	1,296
Sugar Pine	7.0	8.0	8.0	30
Ponderosa Pine	1.0	1.0	1.0	4
Totals:	264.0	299.0	307.0	1,330

Net Volume/Acre: 13.9 MBF

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

Unit: 21-12

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	152.0	172.0	177.0	777
Sugar Pine	5.0	5.0	5.0	37
Ponderosa Pine	1.0	1.0	1.0	6
Totals:	158.0	178.0	183.0	820

Net Volume/Acre: 12.2 MBF

Regeneration Harvest	0.0
Partial Cut	13.0
Right of Way	0.0
Total Acres:	13.0

Unit: 22-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	60.0	68.0	69.0	198
Totals:	60.0	68.0	69.0	198

Net Volume/Acre: 6.0 MBF

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

Unit: 23-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	165.0	186.0	191.0	1,094
Sugar Pine	8.0	9.0	9.0	108
Ponderosa Pine	6.0	6.0	6.0	19
Totals:	179.0	201.0	206.0	1,221

Net Volume/Acre: 6.0 MBF

Regeneration Harvest	0.0
Partial Cut	30.0
Right of Way	0.0
Total Acres:	30.0

Unit: 23-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	338.0	382.0	392.0	2,371
Sugar Pine	7.0	7.0	7.0	90
Ponderosa Pine	3.0	3.0	3.0	28
Totals:	348.0	392.0	402.0	2,489

Net Volume/Acre: 9.7 MBF

Total Acres:	36.0
Right of Way	0.0
Partial Cut	36.0
Regeneration Harvest	0.0

Unit: 31-11

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	223.0	252.0	259.0	1,250
Sugar Pine	5.0	5.0	6.0	39
Tota	ls: 228.0	257.0	265.0	1,289

Net Volume/Acre: 10.4 MBF

Regeneration Harvest	0.0
Partial Cut	22.0
Right of Way	0.0
Total Acres:	22.0

Clean Slate Re-offer

Stump to Truck Costs

ORM07-TS-2019.0008

Total Stump To Truck	Net Volume	\$/MBF
\$786,216.42	3,373.0	\$233.09

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	GM MBF	2,999.0	\$200.98	\$602,739.02	
Track Skidder	GM MBF	806.0	\$150.29	\$121,133.74	
Subtotal				\$723,872.76	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Yum Yarding	Total	1.0	\$25,524.50	\$25,524.50	Units 3-9, 3-10, 31-11, 22-5
Additional Cat Time	Total	1.0	\$6,463.87	\$6,463.87	Addition skidder for tractor swing unit 21-8
Directional Falling	Total	1.0	\$2,597.49	\$2,597.49	300 mbf to directional fall in cable units
Fish Trees	Total	1.0	\$2,507.80	\$2,507.80	Fish Tree Yarding and Decking Units 23-4A, 23-4B
Deadman Anchor	Each	21.0	\$450.00	\$9,450.00	Units 3-10, 3-11, 13-3, 13-4
Intermediate Support	Each	14.0	\$250.00	\$3,500.00	5 corridors need double intermediate supports
Subtotal				\$50,043.66	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Ground Based Side	Total	1.0	\$6,360.00	\$6,360.00	Move loader, skidder, delimber, harvester 5 times
Cable Side	Total	1.0	\$5,940.00	\$5,940.00	Move yarder, loader, delimber, tractor 5 times
Subtotal				\$12,300.00	

Comments:

See logging plan for yarding details ie average yarding distance, % slope, etc.

5 short moves for both cable and ground based sides. 3 hours to move each piece of equipment on lowboy across pavement to next unit.

See logging plan for yarding details.

Total	Net Volume	\$/MBF
\$250,330.95	3,373.0	\$74.22

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Glendale, OR	56.0	All Species	GM MBF	3,805.0	\$65.79	\$250,330.95	100 %

Engineering Allowances

Total	Net Volume	\$/MBF
\$160,462.71	3,373.0	\$47.57

Cost Item	Total Cost
Road Construction:	\$120,664.20
Road Maintenance/Rockwear:	\$39,798.51
Road Use Fees:	\$0.00

Total	Net Volume	\$/MBF
\$157,812.11	3,373.0	\$46.79

Environmental Protection

Cost item	Total Cost
Equipment Washing	\$729.20
Seeding and Mulching	\$5,836.80
Ripping	\$4,980.00
Subtotal	\$11,546.00

Logging

Cost item	Total Cost
Waterbar Corridors	\$583.36
Skid location	\$437.52
Barricades	\$1,050.00
Waterbar Skids	\$375.00
Skid Construction	\$600.00
landing Construction	\$7,050.00
Subtotal	\$10,095.88

Road Construction, Maintenance, Use, & Decommissioning

Cost item	Total Cost
Stream And Culvert Cleaning	\$291.68
Subtotal	\$291.68

Slash Disposal & Site Prep

Cost item	Total Cost
Fire Line Construction	\$35,843.55
Machine Pile Burn and Mop-up	\$252.00
Handpile Burn and Mop-up	\$3,297.00
Cover and Burn Landing Decks	\$1,036.00
Landing Clean up	\$7,050.00

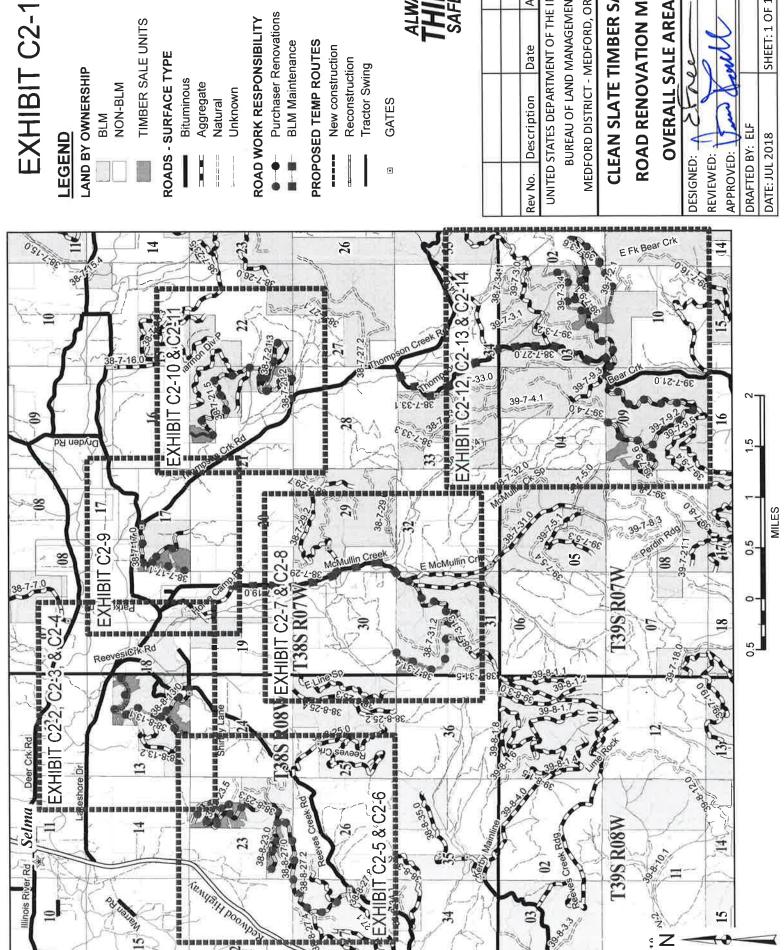
Underburning	\$59,512.50
Handpile and Cover	\$25,512.50
Machine Pile and Cover	\$3,375.00
Subtotal	\$135,878.55

Comments:

Skid Construction unit 21-8 tractor swing road.

UNITED STATES DEPARTMENT OF THE INTERIOR DECOMPACTION & CULVERT REMOVAL DETAILS ESTIMATE OF QUANTITIES SHEETS (C's & D's) BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON DRAINAGE & EROSION CONTROL DETAILS **CLEAN SLATE TIMBER SALE** TRACT NO. ORM07-TS-18-08 SCALE: 1" = 12 MI ROAD MAINTENANCE SPECIFICATIONS SHEET: 1 OF 1 BARRICADE & WATER BAR DETAILS DATE **CLEAN SLATE** TIMBER SALE TITLE SHEET ROADSIDE BRUSHING DETAILS DECOMMISSIONING WORK LIST TYPICAL ROAD DATA SHEET ROAD MAINTENANCE MAPS ROAD RENOVATION MAPS DECOMMISSIONING MAPS ROAD SPECIFICATIONS SPECIAL PROVISIONS EXHIBIT C1 DRAWING NO.: 0R-11-9113.4-1 ROADS WORK LIST REV. NO. DESCRIPTION DESCRIPTION TITLE SHEET DATE: JUN 2018 DRAFTED BY: APPROVED: REVIEWED: DESIGNED: EXHIBIT Ŏ. 60 2 2 83 6 05 338 345 37S 388 395 40S 415 315 325 358 **36S** ALWAYS THINK 4 SAFETY2E UNITED STATES DEPARTMENT OF THE INTERIOR COUNTY BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT JACKSON 3₹ 訓 SCALE IN MILES COUNTY DOUGLAS COUNTY ₹ 8 JOSEPHINE COUNTY 86 LOCATION **PROJECT** CURRY COL 10 *

APPROV



LAND BY OWNERSHIP



TIMBER SALE UNITS



Bituminous Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations **BLM Maintenance**

PROPOSED TEMP ROUTES

New construction Reconstruction

Tractor Swing

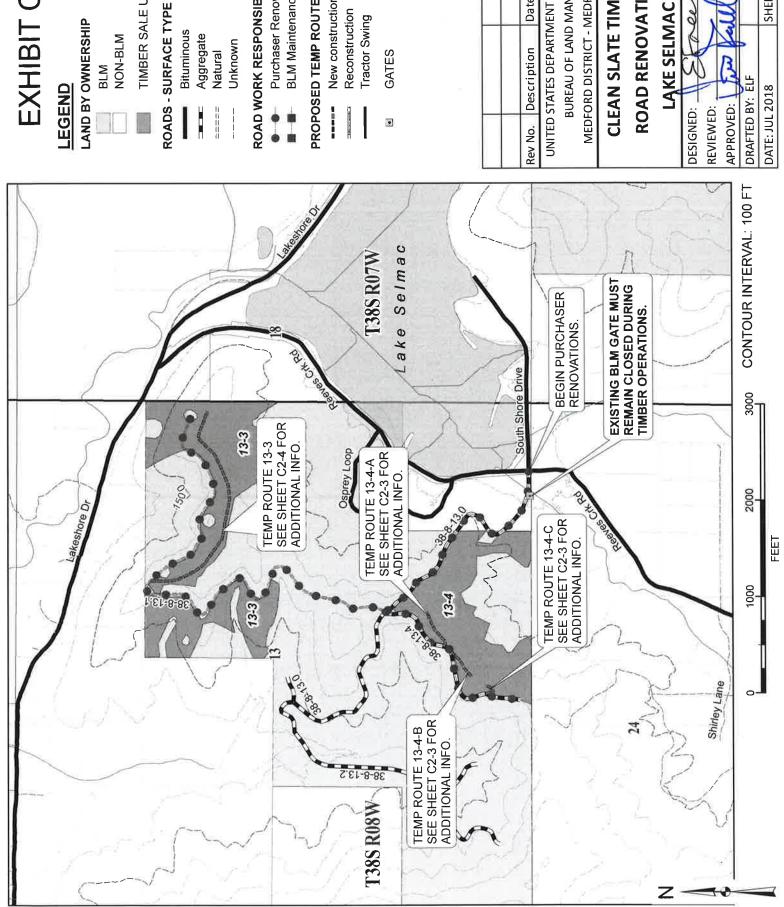
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	Rev No.	UNITED		MEDF

CLEAN SLATE TIMBER SALE ROAD RENOVATION MAP

SHEET: 1 OF 14 DRAFTED BY: ELF APPROVED: DESIGNED: REVIEWED:



LAND BY OWNERSHIP



NON-BLM



Bituminous Aggregate

Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations **BLM Maintenance**

PROPOSED TEMP ROUTES

New construction Reconstruction

Fractor Swing

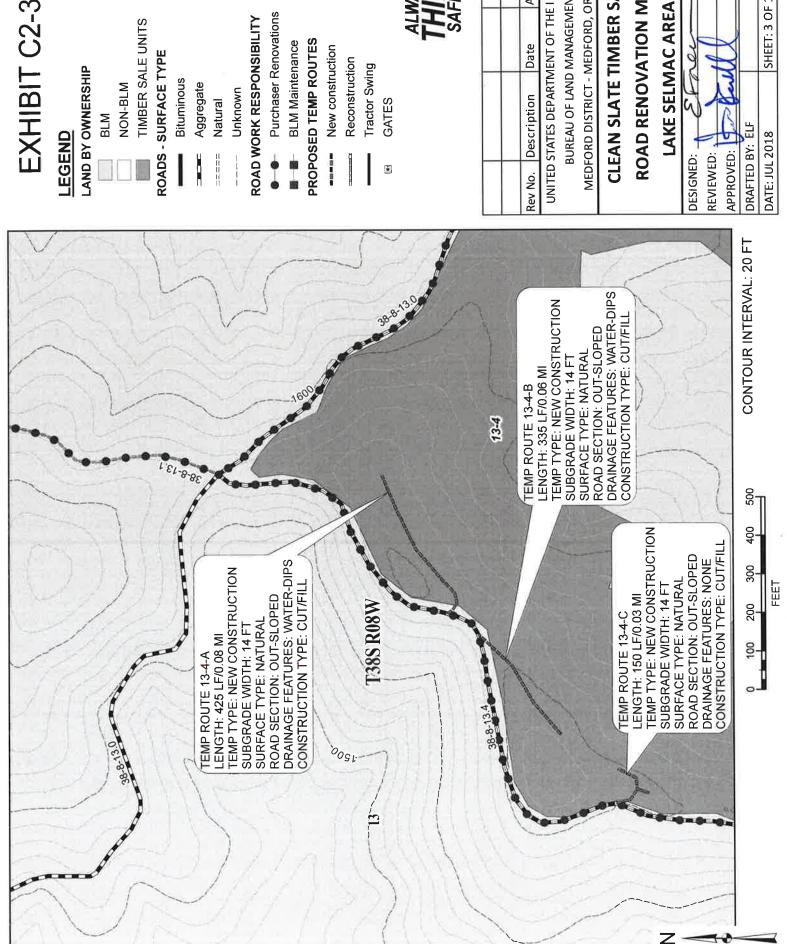
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	Rev No.	UNITED		MEDF







NON-BLM BLM

SURFACE TYPE Bituminous

Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations

BLM Maintenance

PROPOSED TEMP ROUTES

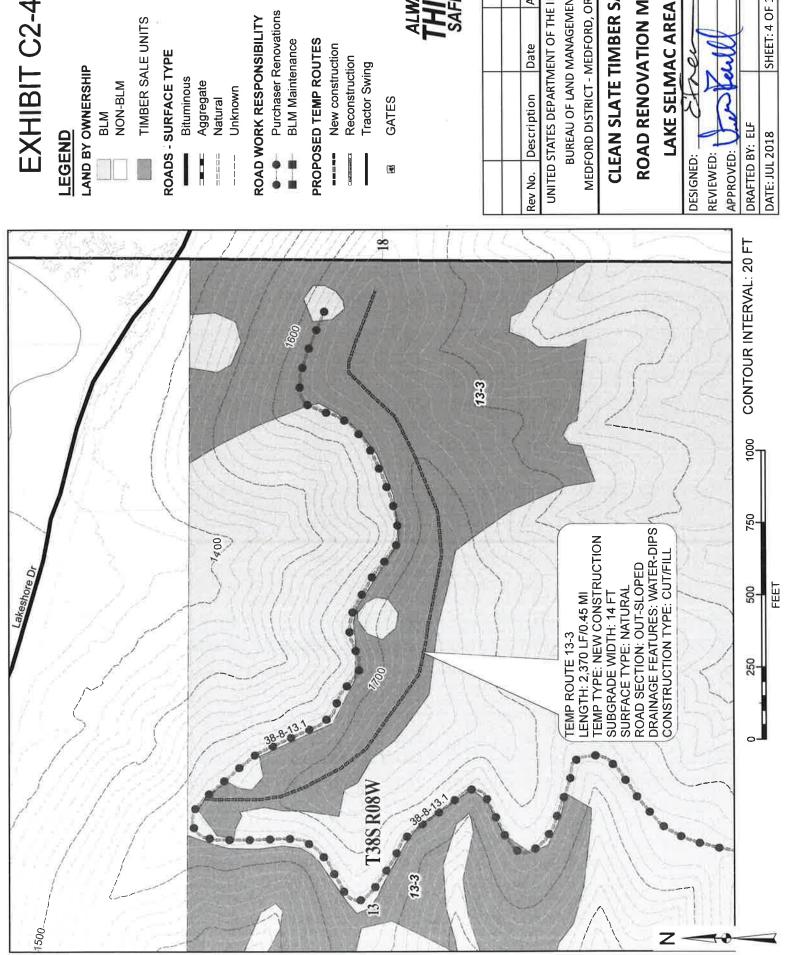
New construction Reconstruction

ractor Swing

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LEGEND

LAND BY OWNERSHIP



NON-BLM

TIMBER SALE UNITS

ROADS - SURFACE TYPE

Bituminous Aggregate

Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations

BLM Maintenance

PROPOSED TEMP ROUTES

New construction Reconstruction

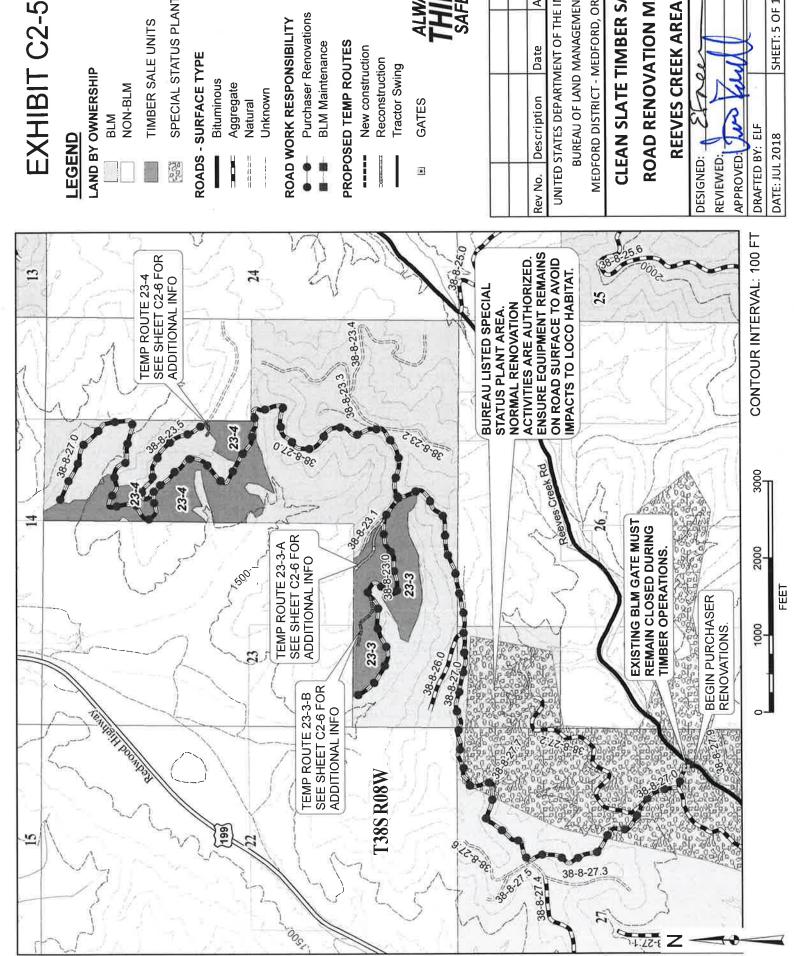
Tractor Swing

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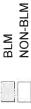


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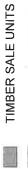


LAND BY OWNERSHIP









SPECIAL STATUS PLANT AREA

Bituminous Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations **BLM Maintenance**

PROPOSED TEMP ROUTES

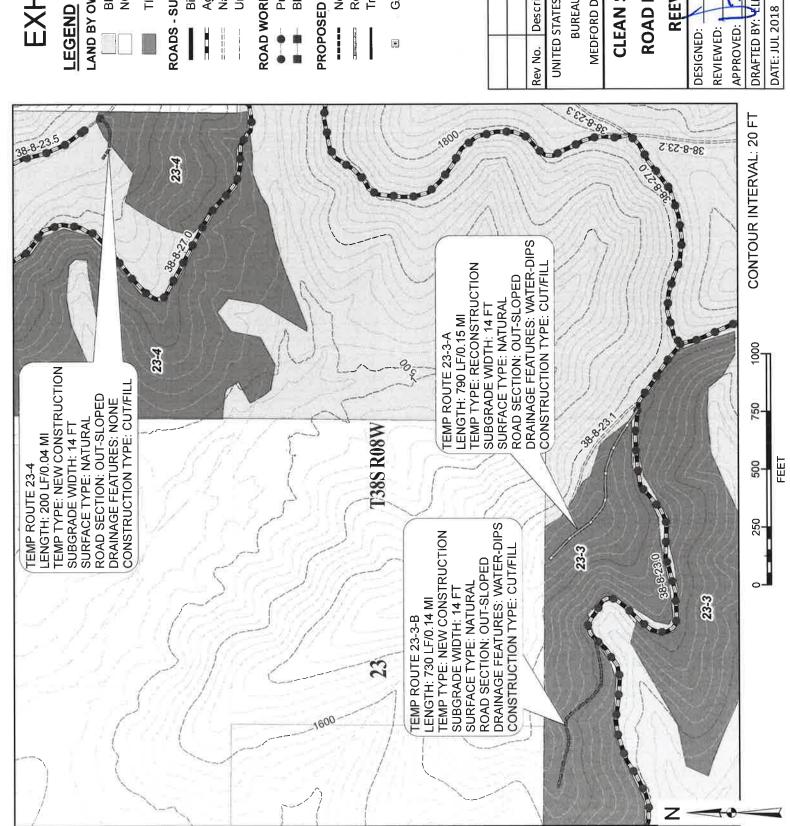
New construction

Reconstruction ractor Swing

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LAND BY OWNERSHIP



NON-BLM

TIMBER SALE UNITS

ROADS - SURFACE TYPE

Bituminous Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations **BLM Maintenance**

PROPOSED TEMP ROUTES

New construction Reconstruction

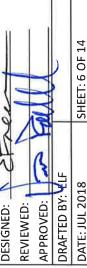
Fractor Swing

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ROADS - SURFACE TYPE **DATE: JUL 2018** APPROVED: DESIGNED: REVIEWED: CONTOUR INTERVAL: 100 FT 38-7-29.3 END BLM MAINTENANCE; BEGIN PURCHASER RENOVATIONS. 0.61-7-85 MOUNTED RO T38S R07W 3000 END COUNTY MAINTENANCE; BEGIN BLM MAINTENANCE. 2000 FEET 1000 31.5 EXISTING BLM GATE. 2500 TEMP ROUTE 31-11 SEE SHEET C2-8 FOR ADDITIONAL INFO 23 26

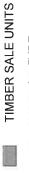
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LEGEND

LAND BY OWNERSHIP







Bituminous Aggregate

Unknown Natural

ROAD WORK RESPONSIBILITY

Purchaser Renovations BLM Maintenance

PROPOSED TEMP ROUTES

New construction Reconstruction

Tractor Swing

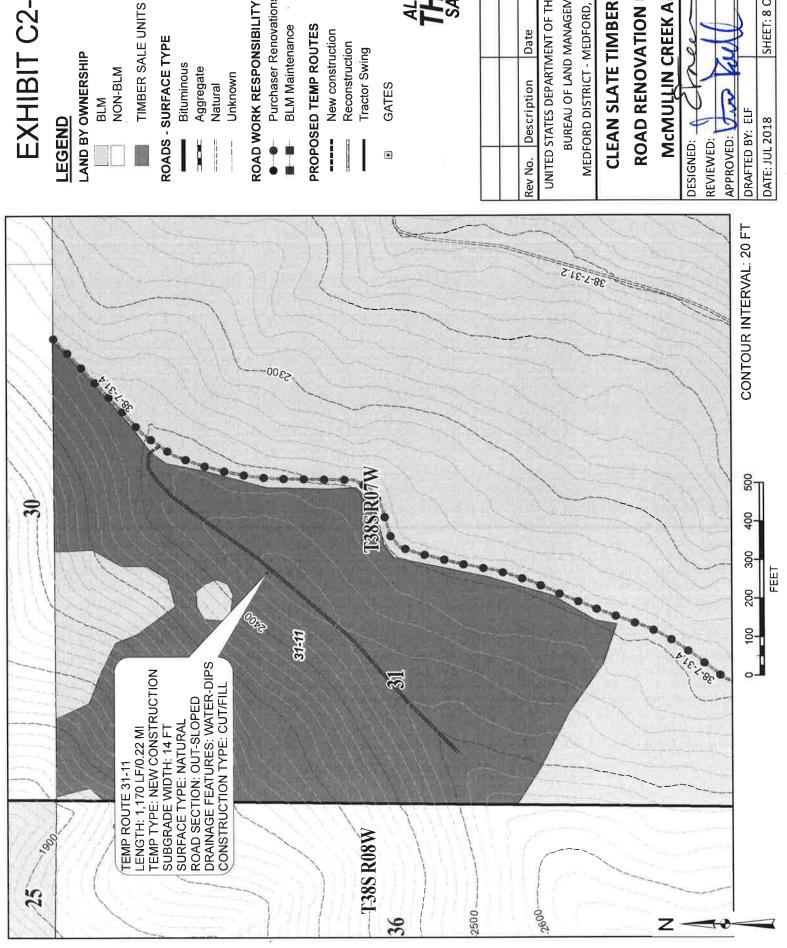
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CLEAN SLATE TIMBER SALE ROAD RENOVATION MAP **McMULLIN CREEK AREA**





Bituminous

Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations BLM Maintenance

PROPOSED TEMP ROUTES

New construction

Reconstruction **Fractor Swing**

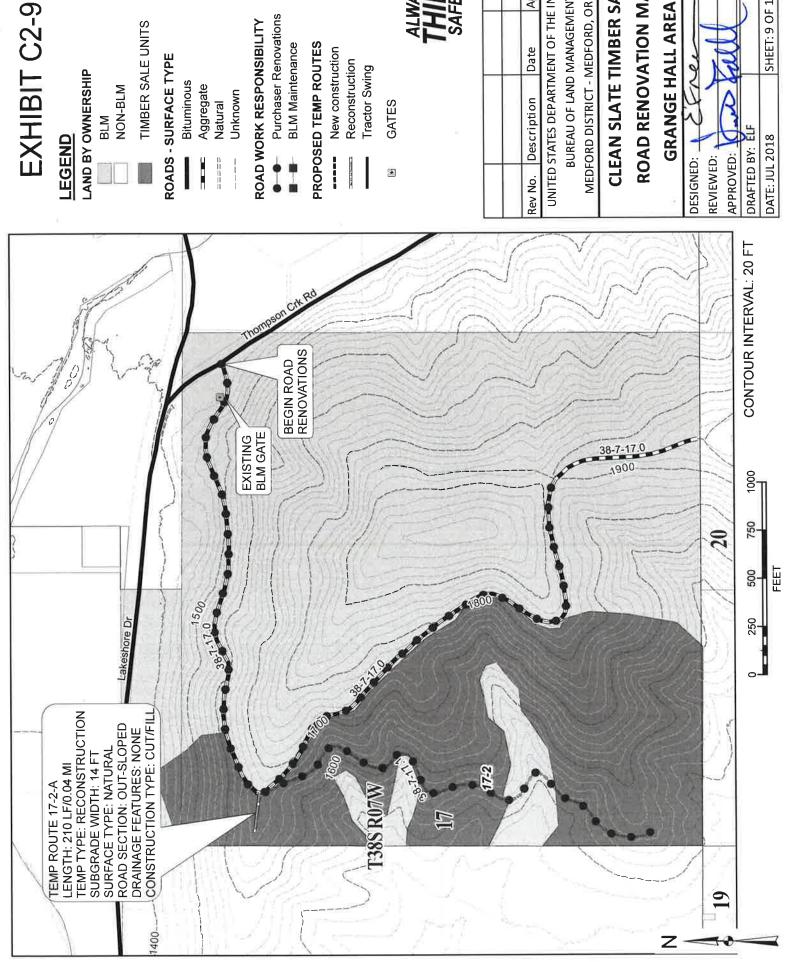
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CLEAN SLATE TIMBER SALE ROAD RENOVATION MAP McMULLIN CREEK AREA





LAND BY OWNERSHIP

ROADS - SURFACE TYPE

Bituminous Aggregate

ROAD WORK RESPONSIBILITY

Purchaser Renovations

BLM Maintenance

PROPOSED TEMP ROUTES

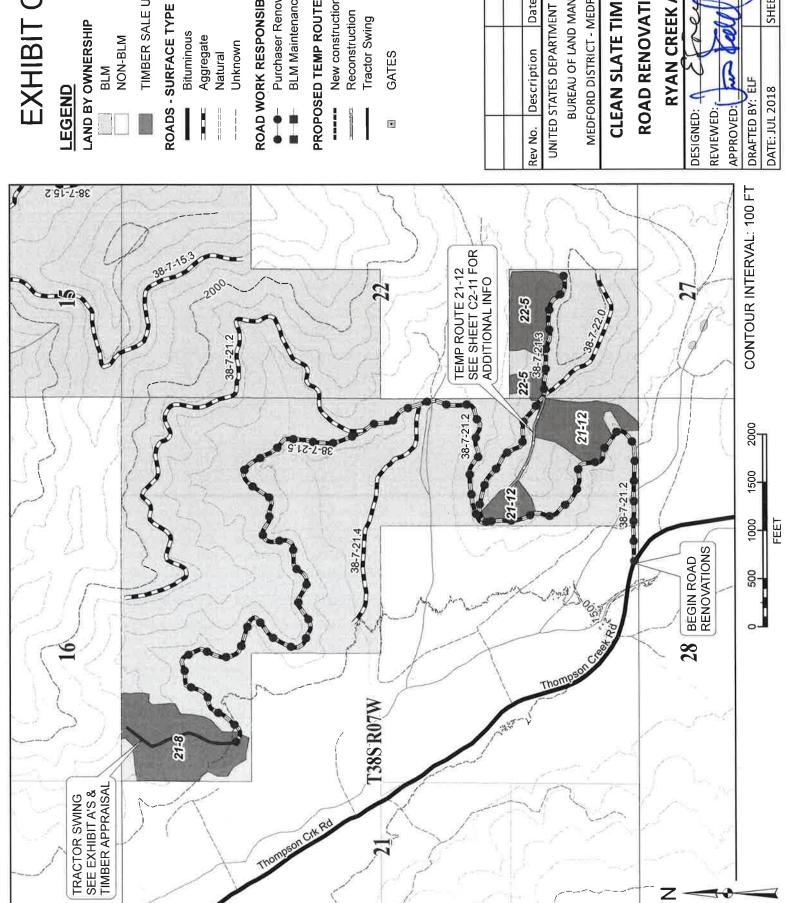
New construction Reconstruction

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LEGEND

LAND BY OWNERSHIP



TIMBER SALE UNITS NON-BLM

Bituminous Aggregate

Unknown Natural

ROAD WORK RESPONSIBILITY

Purchaser Renovations **BLM Maintenance**

PROPOSED TEMP ROUTES

New construction

Reconstruction **Tractor Swing**

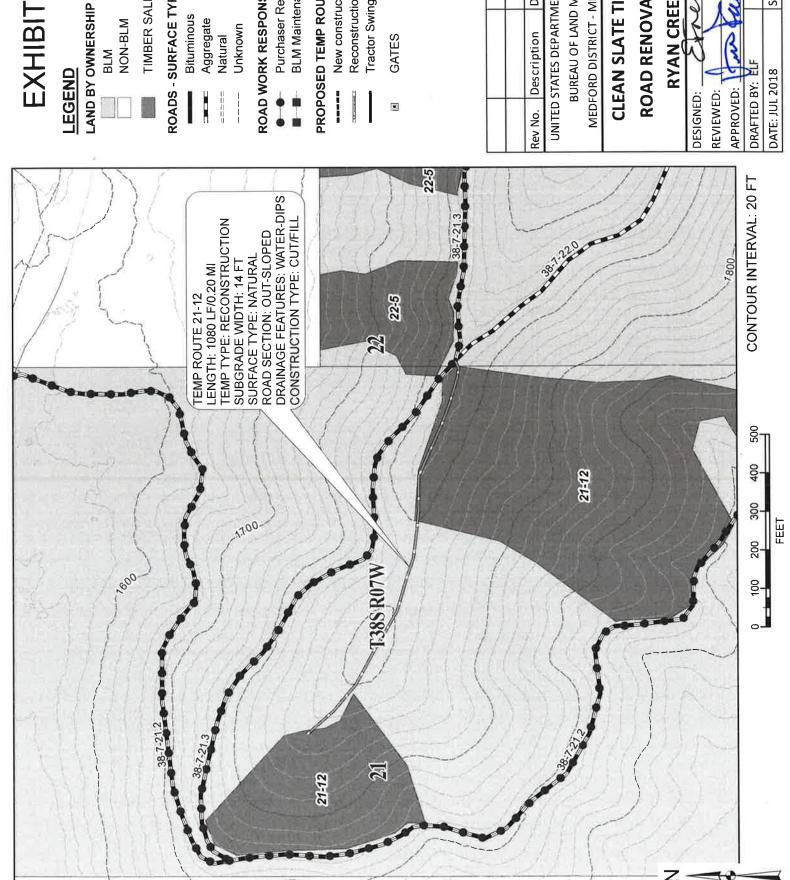
GATES



	Approval	INTERIOR	ENT	DREGON
	Date	MENT OF THE	MANAGEMI	MEDFORD, C
	Rev No. Description	UNITED STATES DEPARTMENT OF THE INTERIOR	BUREAU OF LAND MANAGEMENT	MEDFORD DISTRICT - MEDFORD, OREGON
	Rev No.	UNITED	ш	MEDF

CLEAN SLATE TIMBER SALE ROAD RENOVATION MAP RYAN CREEK AREA





LEGEND

NON-BLM

TIMBER SALE UNITS

ROADS - SURFACE TYPE Bituminous

Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations

BLM Maintenance

PROPOSED TEMP ROUTES

New construction Reconstruction

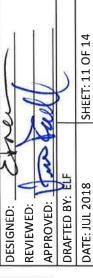
Tractor Swing

GATES



Rev No.	Rev No. Description	Date	Approval
UNITED	UNITED STATES DEPARTMENT OF THE INTERIOR	1ENT OF THE	INTERIOR
	BUREAU OF LAND MANAGEMENT	MANAGEME	INT
MEDF	MEDFORD DISTRICT - MEDFORD, OREGON	MEDFORD, C	REGON





ROADS - SURFACE TYPE CONTOUR INTERVAL: 100 FT 4500 SEE SHEET C2-14 FOR ADDITIONAL INFO 39-7 **TEMP ROUTE 3-11** 4000 39-7-3.2 3000 2 38-7-27.0 2000 FEET -2500 03 END BLM MAINTENANCE; BEGIN PURCHASER RENOVATIONS. 38-7-33.0 39-7-21-0 1000 SEE SHEET C2-13 FOR ADDITIONAL INFO **TEMP ROUTE 9-5** 0.4-7-68 26-7-95 9-5 T38S R07W 387320

EXHIBIT C2-12

LEGEND

LAND BY OWNERSHIP



NON-BLM

TIMBER SALE UNITS

Bituminous Aggregate

Unknown Natural

ROAD WORK RESPONSIBILITY

Purchaser Renovations

BLM Maintenance

PROPOSED TEMP ROUTES

New construction Reconstruction

Tractor Swing

GATES



Rev No. Description Date Approval UNITED STATES DEPARTMENT OF THE INTERIOR		Date	
Rev No. Descrip		Date	
UNITED STATES [-	Approval
	DEPARTM	ENT OF THE	INTERIOR
BUREAU	OF LAND	BUREAU OF LAND MANAGEMENT	N
MEDFORD DISTRICT - MEDFORD, OREGON	STRICT - N	ЛЕDFORD, О	REGON

CLEAN SLATE TIMBER SALE ROAD RENOVATION MAP THOMPSON CREEK AREA



ROADS - SURFACE TYPE DATE: JUL 2018 • CONTOUR INTERVAL: 20 FT ROAD SECTION: OUT-SLOPED DRAINAGE FEATURES: WATER-DIPS CONSTRUCTION TYPE: CUT/FILL LENGTH: 830 LF/0.16 MI TEMP TYPE: NEW CONSTRUCTION SURFACE TYPE: NATURAL SUBGRADE WIDTH: 14 FT **TEMP ROUTE 9-5** 300 FEET 500 9 9-5 8 9:5

EXHIBIT C2-13

LEGEND

LAND BY OWNERSHIP



NON-BLM

TIMBER SALE UNITS

Bituminous

Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

- Purchaser Renovations

 - BLM Maintenance

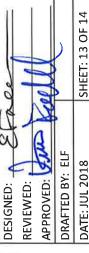
PROPOSED TEMP ROUTES

- New construction Reconstruction
 - **Fractor Swing**
- GATES



Rev No.	Rev No. Description	Date	Approval
UNITED	UNITED STATES DEPARTMENT OF THE INTERIOR	IENT OF THE	INTERIOR
	BUREAU OF LAND MANAGEMENT	MANAGEME	IN
MEDF	MEDFORD DISTRICT - MEDFORD, OREGON	MEDFORD, C	REGON

CLEAN SLATE TIMBER SALE ROAD RENOVATION MAP **THOMPSON CREEK AREA**



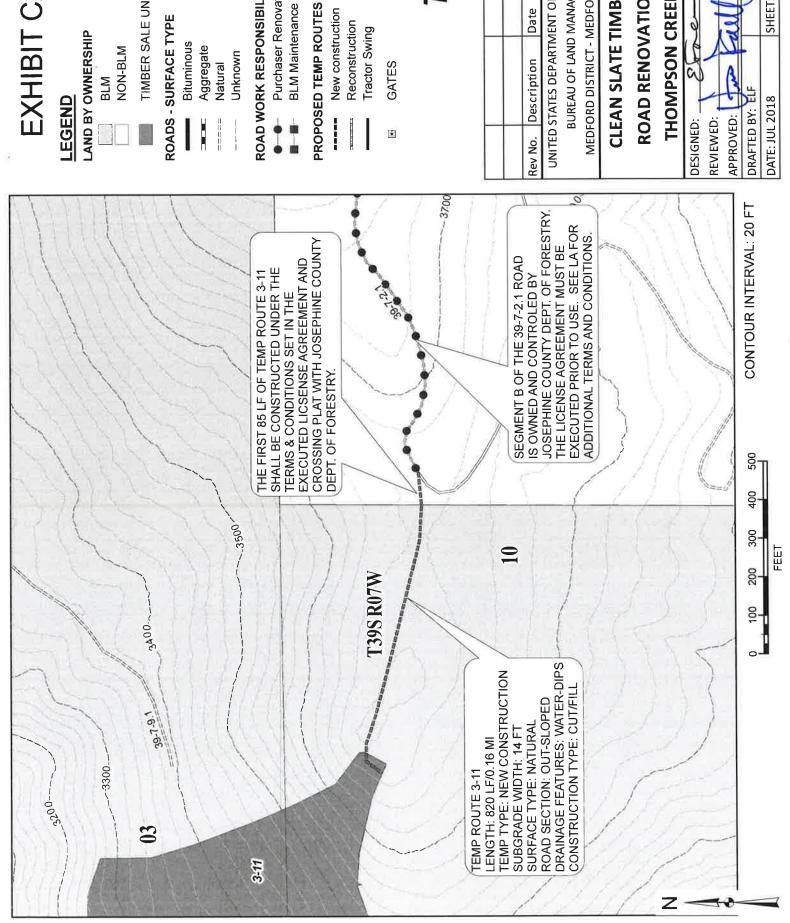


EXHIBIT C2-14

LEGEND

LAND BY OWNERSHIP



NON-BLM

TIMBER SALE UNITS

ROADS - SURFACE TYPE

Bituminous

Aggregate Natural

Unknown

ROAD WORK RESPONSIBILITY

Purchaser Renovations

BLM Maintenance

New construction

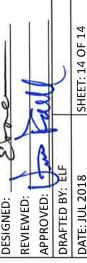
Reconstruction **Fractor Swing**

GATES



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	Approval	INTERIOR	IN	REGON
	Date	IENT OF THE	MANAGEME	MEDFORD, O
	Rev No. Description	UNITED STATES DEPARTMENT OF THE INTERIOR	BUREAU OF LAND MANAGEMENT	MEDFORD DISTRICT - MEDFORD, OREGON
	Rev No.	UNITED !	80	MEDF





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					ND			CORF	RRUGATI	CORRUGATED MET	┪	PIPE 16 GA	4	ЯС	NOI		оćк	оск				@ sd	TOL	TOU	ا ا	J	Γ¥CΕ			
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KENOVALION NOTES

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

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

AGGILGAIL

GRADATION A,C,F B,D,G,H **ITEM 1000** 3 inch 2 inch SIZE GRADATION \triangle ITEM 900 4 inch 3 inch 2 inch 1 1/2 inch SIZE

ESTIMATE OF QUANTITIES CLEAN SLATE TIMBER SALE

DATE APPROVAL

REV NO DESCRIPTION

UNITED STATES DEPARTMENT OF THE INTERIOR

GRADATION C,C-1 E,E-1

SIZE

1 1/2 inch 1 inch 3/4 inch

ITEM 1200

MEDFORD DISTRICT - MEDFORD, OREGON

BUREAU OF LAND MANAGEMENT

SHEET: 1 OF 3 SCALE: NONE DRAWING NO.: 0R-11-9113.4-1 DATE: JUL 2018 DRAFTED BY: APPROVED: REVIEWED: DESIGNED:

> THINIALWAYS SAFETY

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

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					EXCAVATION	ATION		DR	DRAINAGE	ښ			RENOV	ENOVATION		AG	GGREGAT	Ш					MISCE	SCELLANEOU	EOUS	1	
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ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING	воск	соммои	181	24" 36"	ELBOWS	T8" 18"	24"	BLADING, WATERIN & ROLLIN	DITCH AN CULVERT CLEANING	SCARIFIC AND/ORA BUIDAJB	SCIDE	CRUSHEI	CRUSHE	SLOPE PROTECT	SOIL STABILIZ	ROADSID BRUSHIN AND CHIF	INSTALL I HYDRO P OF CONC	RECONS WATER D	MATER B	CONSTRI WATER D	NATER B	EX BARRI	TURNARR BY DATE
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RYAN CREEK AREA																								\dashv	+	\dashv	-
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39-7-9,6	00.0	0.53	0.53									0.53	0.53							0.53				\dashv	+	7	
39-7-9,1 (A)	00.00	1.50	1.50									1.50	1,50							1.50			1		+	+	-
39-7-3.6 (A)	00.00	0.95	0.95						$ \parallel $			0.95	0.30					33	1	0.95		1			+	+	+
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KENUVALION NOTES

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1 1/2 inch 1 inch 3/4 inch SIZE GRADATION A,C,F B,D,G,H 3 inch 2 inch SIZE GRADATION A B O D

3 inch 2 inch 1 1/2 inch 4 inch SIZE

DATE APPROVAL

REV NO DESCRIPTION

UNITED STATES DEPARTMENT OF THE INTERIOR

GRADATION C,C-1 E,E-1 E,E-1

ITEM 1200

ITEM 1000

ITEM 900

BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON

ESTIMATE OF QUANTITIES CLEAN SLATE TIMBER SALE DRAFTED BY: ELF DATE: JUL 2018 APPROVED: REVIEWED DESIGNED

THINFALWAYS SAFETY

SHEET: 2 OF 3

DRAWING NO.: OR-11-9113.4-1

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

																Ш	X	EXHIBIT C3-3		3-3		Ш́	X	EXHIBIT I	Ω.
						EXCAVATION	ATION				DRAINAGE	\GE			RENOVATION	ATION						D	ECOMMI	DECOMMISSIONING	9
ROAD	FROM (STA)	TO (STA)	LENGTH (MILES)	скиввіме СГЕФКІМО ФИD	ИРРВЕЕ ВОСК	соммои	SUBGRADE	вгуріме	[0]	SIZE	30. LY PPE	POLY PIPE (HDPE) IE DOW SO'' EL BO	DOWNSPOUT HALF ROUND 18" 24"	LIGHT BLADING (POZER)	HEAVY BLADING (POZER)	SLIDE	SLOPE PROTECTION (AAЯЧІЯ)	SOIL	CONSTRUCT MID RETAW	СОИЗТВИСТ ТИВИАВОИИР		RIPPING SUBGRADE	CONSTRUCT SAAB ABTAW	WOLCH SEED AND	ВРКИІСАDES
SPECIFICATION NO.			A	200) % 			1		400	1			200		1400	1800		8000			m m	3500	
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Temp Route 13-4-C	0+0	1+50	0.03	0.0		160	1.50	1.50			-		_							-		1.50	2	0.09	-
Temp Route 13-3	0+0	23+70	0.45	1.57		2.663	23.70	23.70			-								4	-		23.70	20	1.57	
Temp Route 23-3-A	0+00	2+90	0.15	0.45		388	7.90	7.90		\dashv	\dashv								-	-		7.90	9	0.45	-
Temp Route 23-3-B	00+0	7+30	0.14	0.67		1,796	7.30	7.30			\dashv								2	-		7.30	2	0.67	-
Temp Route 23-4	0+0	2+00	0.04	0.12		86	2.00	2.00			\dashv									-		2.00	7	0,12	-
Temp Route 31-11	0+0	11+70	0.22	0.67		784	11.70	11.70		+	+	-							2	-		11.70	9	0.67	-
Temp Route 21-12	0+0	10+80	0.20	0.62		724	10.80	10.80		7	-								е	-		10.80	ω	0.62	-
Temp Route 9-5	00+0	8+30	0.16	0.48		938	8.30	8.30		1	-						_		7	-		8.30	ဖ	0.48	-
Temp Route 3-11	00+0	8+20	0.16	0.47		549	8.20	8.20	ç.		3	-	_						7	-		8 20	ဖ	0.47	-
TEMP ROUTE TOTALS	FALS		1.69	5.63		8,766	89.00	89.00				ent est							19	1		89.00	70	5.63	10
SELON NOITSHADS	ON NO	SHL							DEC	NO.	MISS	NOIS	NG	COMMISSIONING NOTES											

CONSTRUCTION NOTES

- 1. ALL TEMP ROUTE SUBGRADE OR RUNNING SURFACE WIDTHS SHALL NOT EXCEED 14 FEET.
- 2. TURNOUTS ARE AUTHORIZED BUT SHALL BE CONSTRUCTED AT THE AUTHORIZED OFFICERS DISCRETION AND KEPT TO A MINIMUM QUANTITY TO AVOID UNNECESSARY DISTURBANCE.
- 3. STA's = 100 LINEAR FEET.
- 4. TURNAROUND AREAS SHALL NOT EXCEED 0.25 ACRES OR 60 FOOT RADIUS.

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

JECOMINISSIONING NOTES

1. ALL TEMP ROUTE ARE TO BE DECOMMISSIONED PER EXHIBIT D SPECIFICATIONS AND DETAILS.

APPROVAL

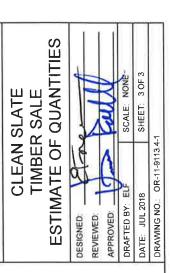
UNITED STATES DEPARTMENT OF THE INTERIOR

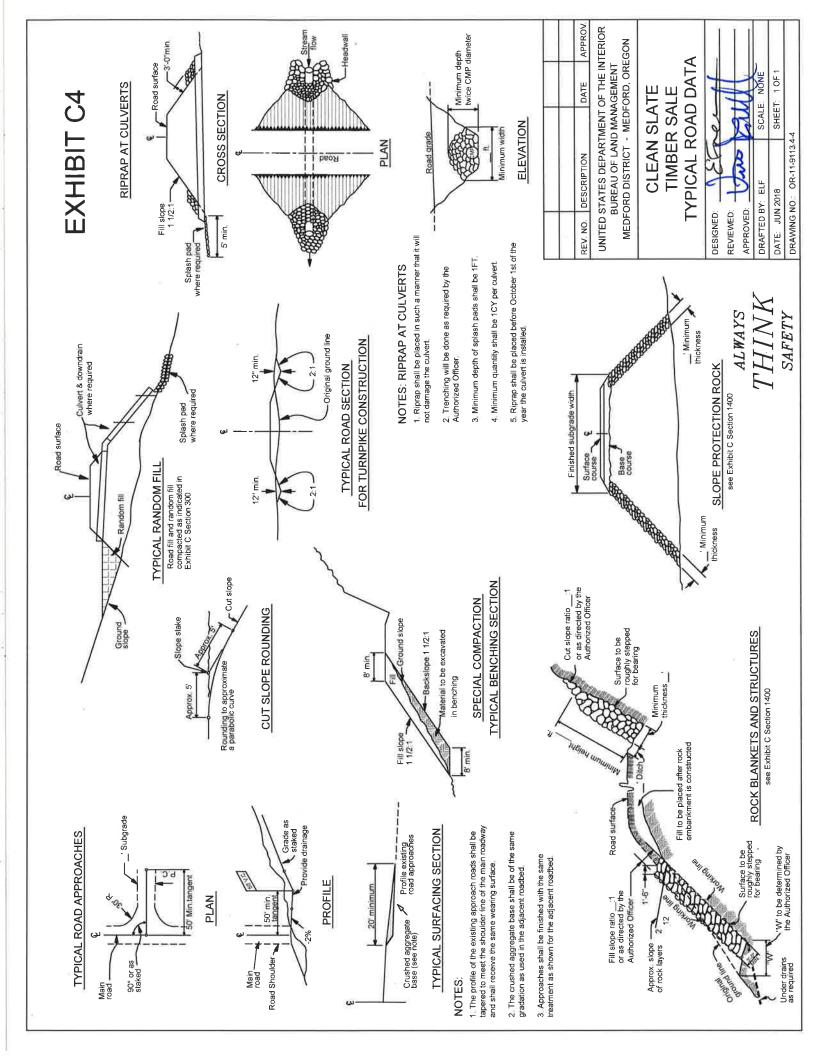
REV. NO. DESCRIPTION

BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON

- 2. DECOMMISSIONING (LONG-TERM) SHALL INCLUDE RIPPING, WATER BARRING, SEEDING & MULCHING, AND BARRICADING.
- 3. DECOMMISSIONING (PARTIAL) SHALL INCLUDE PARTIAL RIPPING, WATER BARRING, AND SEEDING & MULCHING.







Road Prism



- Cut all vegetation to maximum height of 1" flush with the running surface, B = Road Bed Subgrade (includes turnouts)
- C = 6 ft Distance to be brushed on cut slope beyond centerline of ditch. Cut all vegetation to maximum height of 4".

4

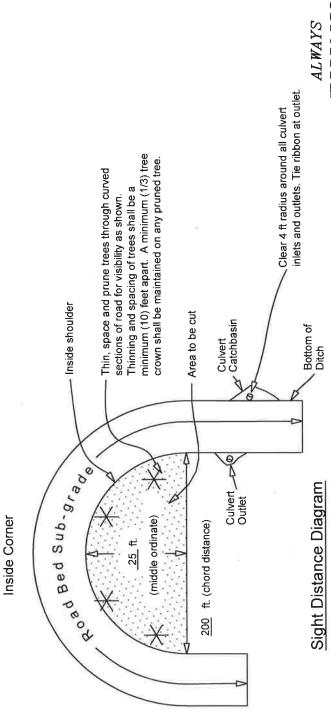
Cutting Limit

- D = Centerline of ditch to inside shoulder. Cut all vegetation to maximum height of 1".
- F = $\overline{6}$ ft Distance to be brushed on fill slope beyond outside shoulder Cut all vegetation to maximum height of 4".

V = 14 ft - Height of vertical cutting limit

Brushing Diagram

4

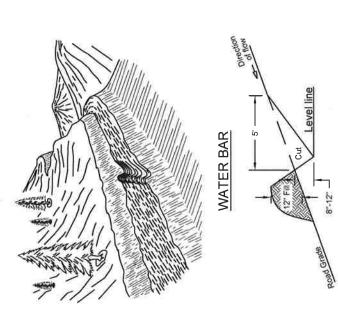


APPROV UNITED STATES DEPARTMENT OF THE INTERIOR ROADSIDE BRUSHING DETAIL BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON SHEET: 1 OF 1 SCALE: NONE DATE **CLEAN SLATE TIMBER SALE** REV NO DESCRIPTION DRAFTED BY: EL DATE: JUN 2018 APPROVED: REVIEWED: DESIGNED:

DRAWING NO.: 0R-11-9113.4-4

All distances shown are horizontal except for V

revised 08/2010



- 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.

WATER BAR SPACING* BY EROSION CLASS^

ROAD	HIGH	MODERATE	LOW
%	FEET	FEET	FEET
2-5	200	300	400
6-10	150	200	300
11-15	100	150	200
16-20	75	100	150
21-35	50	75	100
35+	20	90	20

- Spacing is determined by slope distance and is the maximum allowed for the grade.
- High: Granite, sandstone, andesite porphyry, glacial or alluvial deposits, soft matrix conglomerate, volcanic ash, and The erosion classes include the following rock types:

Moderate: Basalt, andesite, quartzite, hard matrix

conglomerate, and rhyolite.

Low: Metasediments, metavolcanics, and hard shale

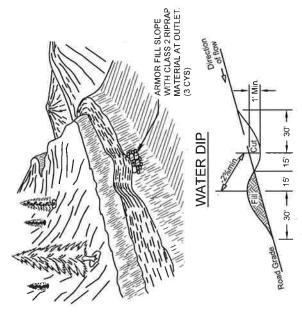


EXHIBIT C6-1

- Water dips shall be constructed as shown above.
 - Exact location is listed in Roads Work List. All water dips shall be skewed 30 degrees.
- The length shall be sufficient to extend from the cut bank to the fill slope.
- will be securely placed at outlet a minimum of 10 LF wide 5. Armor outlet of water dip on fill slope. Riprap material by 8 LF down fill slope by 1 FT in depth. Key-in toe of
 - Riprap apron for stability.

 6. Seed and mulch fill slope upon completion to stabilize side-cast material. See Slope Protection specifications.

Down Grade

SKEW DIAGRAM

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

SANDY LOAM DECOMPOSED CLAY & LOAM GRANITE/SAND SILTY SOILS

ROAD GRADE

WATER DIP SPACING'

1200-600 600-300 300-200 200-100

2000-1000 950-450

2-3 4-7

1200-600

FEET

FEET

FEET

%

DRAINAGE & EROSION CONTROL DETAILS **CLEAN SLATE TIMBER SALE**



SAFETY

Spacing is determined by slope distance and is the maximum allowed for the grade.

9

300-250

16+

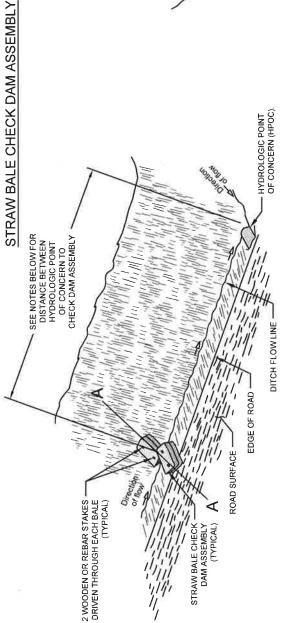
350-200 200-150

11-15 8-10

450-350

550-450 450-300

EXHIBIT C6-2



EX. ROAD SURFACE

DITCH LINE EXTENTS

STAKES DRIVEN THROUGH EACH BALE 2 WOODEN O'R REBAR

EX CUT BANK

(TYPICAL)

PLAN

1. All straw bales will be from a weed free certified source.

2. Hydrologic Points of Concern (HPOC) are natural drainage features (ie. streams, creeks, draws) that intersect with existing or proposed roads,

SECTION A-A

NO GAPS BELOW CHECK DAM ASSEMBLY, ENSURING PROPER SEDIMENT FILTRATION

- (Coho) waterway, install check dam assembly, or other approved BMP, in road ditch If the HPOC is a bridge spanning across a noted or listed critical fish habitat line 150 LF up-grade from top of creek bank or edge of bridge.
- If the HPOC is a draw culvert, install check dam assembly, or other approved BMP, in road ditch line 100 LF up-grade from inlet of culvert.

INSTALLATION NOTES:

- Do not construct the check dam assembly more than one bale high.
- 2. Bales shall be placed tightly together and snug to the ground to ensure no gaps between bales or underneath the assembly.
- wooden or rebar stakes driven through the bales. 3. Securely anchor the bales in place with two Drive the stakes in the second bale toward the together. Ensure stakes are driven 12 inches previously laid bale to force the bales tightly minimum into the ground.
- The assemblies do not need to be anchored if the terrain is relatively flat, less than 2% ditch line

INSPECTION/MAINTENANCE NOTES:

- Inspect each assembly before, during, and after each rain event.
- decomposed bales promptly. Replacement bales Repair and/or replace damaged assemblies or shall be in good condition to ensure sediment
- 3. Trapped sediment shall be removed when it reaches 6-8 inches in depth.
- stable area outside of wetlands, riparian reserves, 4. Sediment shall be removed and placed in a floodplains, and waters of the State.

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

CONTROL INSTALLATION **DRAINAGE & EROSION CLEAN SLATE TIMBER SALE**

1	S KARK C	SCALE: NONE	SHEET: 2 OF 2	14
DESIGNED:	APPROVED:	DRAFTED BY: EL	DATE: JUN 2018	DRAWING NO.: 0R-11-9113.4-4

THINK

SAFETY

ROAD MAINTENANCE SPECIFICATIONS

TABLE OF CONTENTS

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

Sale Name: Clean Slate T.S.

Page 2 of 8

GENERAL - 3000

- 3001 The Purchaser shall be required to maintain all roads listed and/or as shown in Exhibit D maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, 3400, and 3500 of this exhibit.
- The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one 1 mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader.

 Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 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.
- 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.
- The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

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

Sale Name: Clean Slate T.S.

Page 3 of 8

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

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

- The Purchaser shall avoid fouling gravel or bituminous surfaces. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.
- 3108a The Purchaser shall perform logging operations on gravel roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish gravel for necessary repairs at designated locations. Repair of the road 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.
- The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 1st of 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.
- The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

3301 - The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within thirty 30 calendar days following the completion of hauling and in accordance with Section 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 Section 16(b), Special Provisions, and 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.

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.
- 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.

The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one- half gallon per yd² of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds³ of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd² when a specified lesser rate is approved by the Authorized Officer.

The following roads shall be watered:

Road Number	From M.P.	То М.Р.
38-8-13.0	0.00	0.26
38-8-27.0	0.00	0.25
38-7-19.0	1.65	1.90

Sale Name: Clean Slate T.S.

Page 5 of 8

Road Number	From M.P.	То М.Р.
38-7-17.0	0.00	0.20
38-7-21.2(A)	0.00	0.30
	TOTAL MILES	1.26

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

- The Purchaser may at his option and expense substitute lignin sulfonate or magnesium chloride for water on any or all road segments listed in the contract provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.
- 3405a Additional lignin sulfonate or magnesium chloride dust palliative may be required at the option of the Authorized Officer when the functional qualities of the dust palliative have been reduced or become ineffective due to third party damage, rain, or other events not under the control of the purchaser.

If additional dust palliative is required due to events controlled by the Purchaser, such as split hauling season, the Purchaser shall furnish and place such material at his own expense.

- 3405b The Purchaser shall notify affected residents along the roads to be treated of the planned application of lignin sulfonate or magnesium chloride dust palliatives at least 3 days prior to the work by posting warning signs at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within thirty days of treatment.
- 3406 Prior to the application of lignin sulfonate or magnesium chloride dust palliative, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must be visibly moist and drying.
- 3406b A light application of water to promote penetration shall be made in advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.
- 3406c The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.
- The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the lignin sulfonate or magnesium chloride dust palliative material requirements specified under Subsection 3412b and 3412c. Commercial certification includes the date, identification number of truck or trailer, net mass, and brand name with each shipment. Also provide the net volume and specific gravity at 60°F, percent solids by mass, and PH.
- Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.

Exhibit D1

Sale Name: Clean Slate T.S.

Page **6** of **8**

- 3409 The Purchaser shall notify the Authorized Officer a minimum of 3 days in advance of application of required dust palliative.
- The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.
- 3411 Required lignin sulfonate or magnesium chloride dust palliative shall only be applied when the atmospheric temperature is 45°F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.
- The Purchaser shall apply to the prepared roadbed, a lignin sulfonate or magnesium chloride dust palliative conforming to the material requirements of Subsection 3412b and 3412c. The rate of application shall be 0.5 gallons per yd² surface. A second application at the rate of 0.3 gallons per yd² shall be applied at a time designated by the Authorized Officer.

Applied materials not penetrating the road surface shall be blade mixed with additional water into the top 1 to $1\frac{1}{2}$ inches of the surfacing at the Contractor's expense.

3412a - If required, the lignin sulfonate or magnesium chloride shall be field diluted within the application vehicle and be circulated at least 5 minutes to assure mixing. An air gap shall be provided between any water source and the materials being diluted. Accidental spills shall be contained to prevent entry in water courses or ponded water. The surface of adjacent structures and trees shall be protected from spattering or marring.

A wetting agent may be used in addition to the certified compound or mixed with the road surface preparation watering. A mix of less than 1:6000 is recommended.

Water used to dilute lignin sulfonate or magnesium chloride concentrate shall be clean and free of oil, salt, acid, alkali, vegetable matter, or any other substance that contaminates the finished product.

3412b - Specifications for Lignin Sulfonate:

Lignin sulfonate shall be the chemical residue produced as a byproduct of the acid sulfite pulping process and supplied as a water solution. The base cation shall be ammonia, calcium, or sodium. The product shall be water soluble to allow field dilution. Dilute with water until the mixture contains a minimum 48 percent concentration with the following properties:

Solids 50% Specific gravity 1.25 PH. AASHTO T289 4.5 min.

Ensure that the material does not exceed the following chemical constituents:

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm

Sale Name: Clean Slate T.S.

Page **7** of **8**

chromium	0.50 ppm
cadium	0.20 ppm
barium	10.00 ppm
selenium	5.00 ppm
zinc	10.00 ppm

Apply when the ambient air temperature is 45° F or above.

3412c - Specifications for Magnesium Chloride:

The material shall consist of a brine containing 29 to 35 percent magnesium chloride by weight and 62 to 72 percent water by weight. Ensure that the material does not exceed the following chemical constituents:

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm
chromium	0.50 ppm
cadmium	0.20 ppm
barium	10.00 ppm
selenium	5.00 ppm
zinc	10.00 ppm
sulfate	4.3 percent r

sulfate 4.3 percent maximum nitrate 5.0 percent maximum.

Concentration specifications for Magnesium chloride:

Magnesium chloride by mass 28% minimum Water by mass 72% maximum Specific gravity, AASHTO T 227 1.290 to 1.330

Apply when the ambient air temperature is 45° F or above.

DECOMMISSIONING – 3500

- 3501 Decommissioning shall consist of removing draw crossings by excavating fill material and placing in locations to form partially recontoured roadway sections. Work includes ripping, installing water bars, seeding with native seed, placement of slash and placement of soil stabilization material, and blocking road from access by vehicles. This work is required for road acceptance under Section 18 of this contract.
- Decommissioning shall be performed on all temporary routes in accordance with these specifications.
- 3504 Decommissioning work shall be completed after timber extraction, logging activities, and after road use.

Exhibit D1

Sale Name: Clean Slate T.S.

Page **8** of **8**

- Where draw crossing fill material is to be excavated and removed, the finished bottom of draw profile shall be re-established to its original channel grade and resulting adjacent banks shall be re-established to their original backslope ratios.
- 3506 Stockpiled slash shall be used to protect exposed areas created by the Purchaser's decommissioning operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. All slash stockpiles created by the purchaser shall be utilized for decommissioning operations. Where slash is not available or no longer remaining, exposed soil areas shall be stabilized in accordance with section 1800 Soil Stabilization.
- 3508 Protect areas mulched and treated with slash placement from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.
- 3511 Ripping and water barring shall be done on all temporary routes, disturbed areas outside of the roadway, and landings.
- Water bars shall be installed across full width of temporary routes. Water bars shall be constructed as shown on Exhibit D6.
- 3514 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with section 1800 and placement of slash described in section 2606 on temporary routes, disturbed areas, landings, cut banks, fill slopes and other areas disturbed by the purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.

ROADS - SURFACE TYPE DATE: JUL 2018 LEGEND DRAFTED BY: ake Selmac T38S R07W 18 BEGIN PURCHASER MAINTENANCE. South Shore Drive 13-3 Lakeshore Dr 1500 1000 EXISTING BLM GATE MUST REMAIN CLOSED DURING TIMBER OPERATIONS. FEET 200 13-4 13-3 74 Z

EXHIBIT D2-1

LAND BY OWNERSHIP



BLM NON-BLM

TIMBER SALE UNITS

Bituminous

Aggregate Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance BLM Maintenance

TEMP ROUTES

New construction Reconstruction

GATES

Fractor Swing



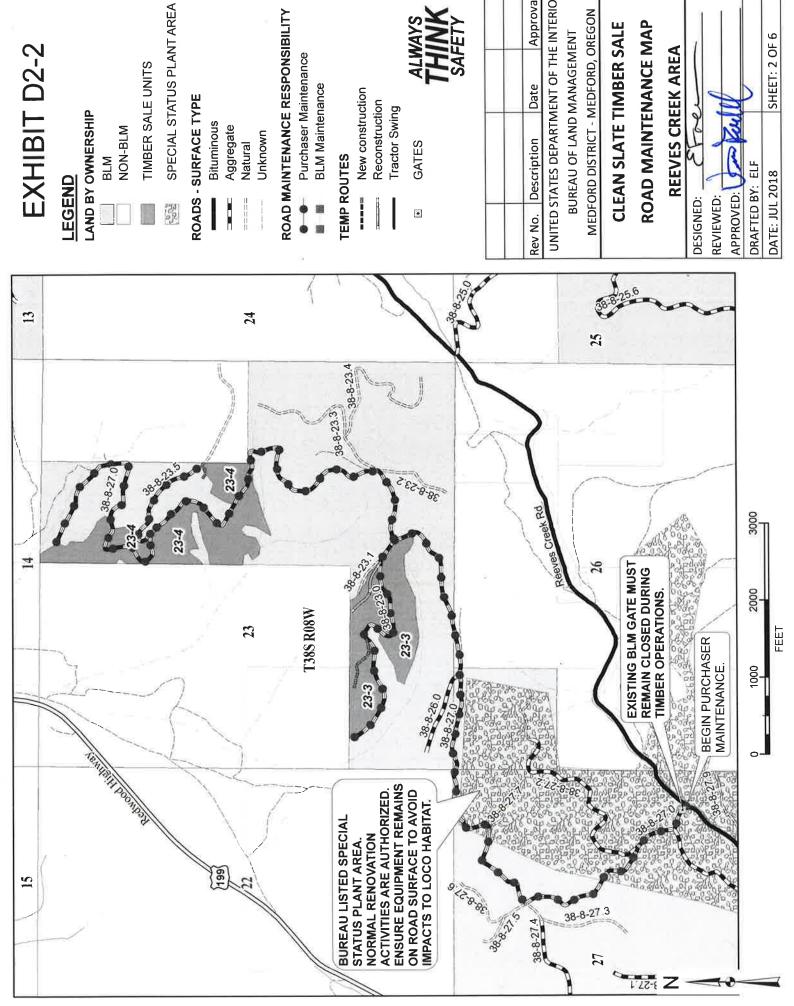
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MEDF	MEDFORD DISTRICT - MEDFORD, OREGON	MEDFORD, C	REGON

CLEAN SLATE TIMBER SALE ROAD MAINTENANCE MAP

LAKE SELMAC AREA

APPROVED: DESIGNED: REVIEWED:

SHEET: 1 OF 6







Bituminous Aggregate

Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance **BLM Maintenance**

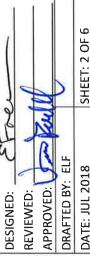
New construction Reconstruction

Fractor Swing

GATES

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ROAD MAINTENANCE MAP **CLEAN SLATE TIMBER SALE**



McMULLIN CREEK AREA LAND BY OWNERSHIP BLM NON-BLM **TEMP ROUTES** DATE: JUL 2018 LEGEND DESIGNED: APPROVED: REVIEWED: 32 END BLM MAINTENANCE; BEGIN PURCHASER MAINTENANCE. T38S R07W 2500 2000 1500 Three Mountain Rd 1000 30 20 38-7-31.2 EXISTING BLM GATE. T38S R08W 36

EXHIBIT D2-3

ROADS - SURFACE TYPE

TIMBER SALE UNITS

Bituminous Aggregate Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance BLM Maintenance

New construction

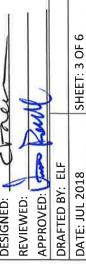
Reconstruction **Fractor Swing**

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ROAD MAINTENANCE MAP **CLEAN SLATE TIMBER SALE**



ROADS - SURFACE TYPE DATE: JUL 2018 LEGEND DESIGNED: BEGIN PURCHASER MAINTENANCE EXISTING BLM GATE 750 20 200 FEET Lakeshore Dr 250 117 Z

EXHIBIT D2-4

LAND BY OWNERSHIP



BLM NON-BLM



Bituminous Aggregate Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY Purchaser Maintenance BLM Maintenance

TEMP ROUTES

New construction

Reconstruction Tractor Swing

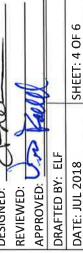
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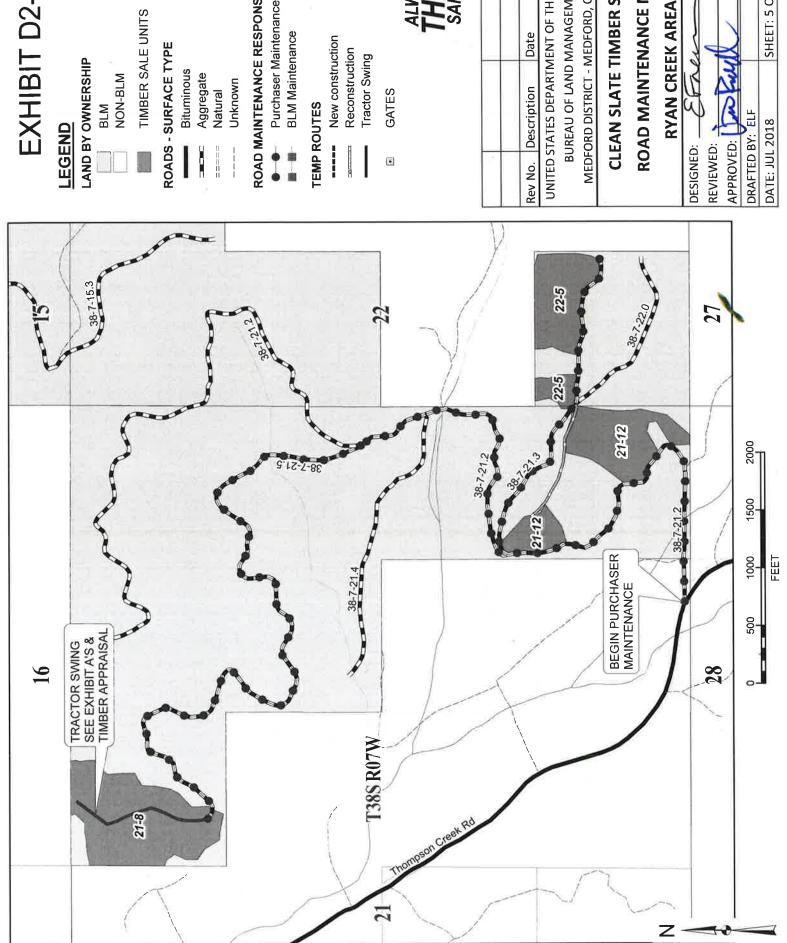


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ROAD MAINTENANCE MAP **CLEAN SLATE TIMBER SALE**

GRANGE HALL AREA





LAND BY OWNERSHIP



NON-BLM

ROADS - SURFACE TYPE

TIMBER SALE UNITS

Bituminous Aggregate

Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance BLM Maintenance

TEMP ROUTES

New construction Reconstruction

Tractor Swing

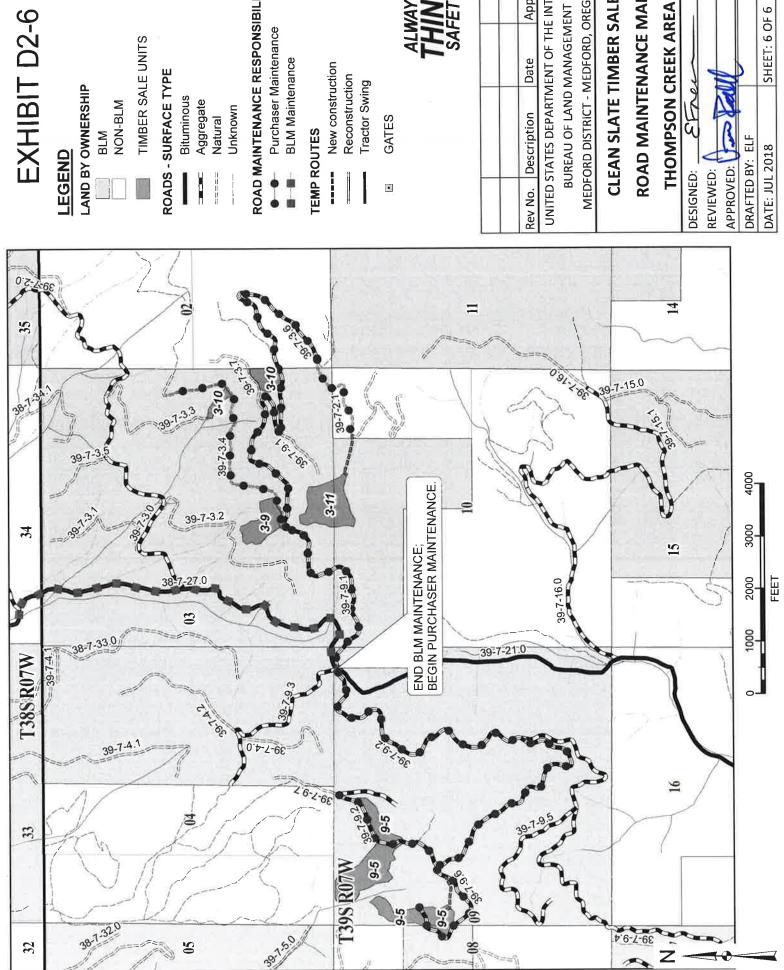
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ROAD MAINTENANCE MAP **CLEAN SLATE TIMBER SALE**

SHEET: 5 OF 6 DRAFTED BY: ELF APPROVED:



AND BY OWNERSHIP



BLM NON-BLM

TIMBER SALE UNITS

Bituminous Aggregate Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance **BLM Maintenance**

TEMP ROUTES

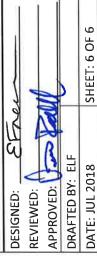
New construction Reconstruction

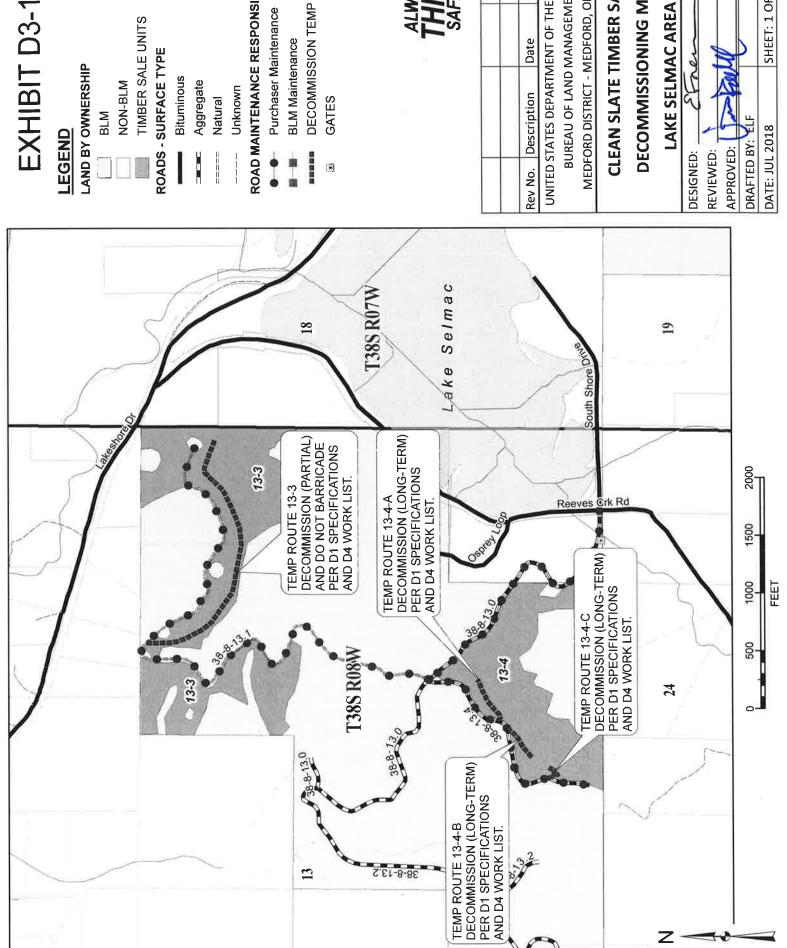
Tractor Swing

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ROAD MAINTENANCE MAP **CLEAN SLATE TIMBER SALE**









NON-BLM

TIMBER SALE UNITS



Aggregate

Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

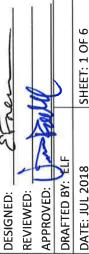
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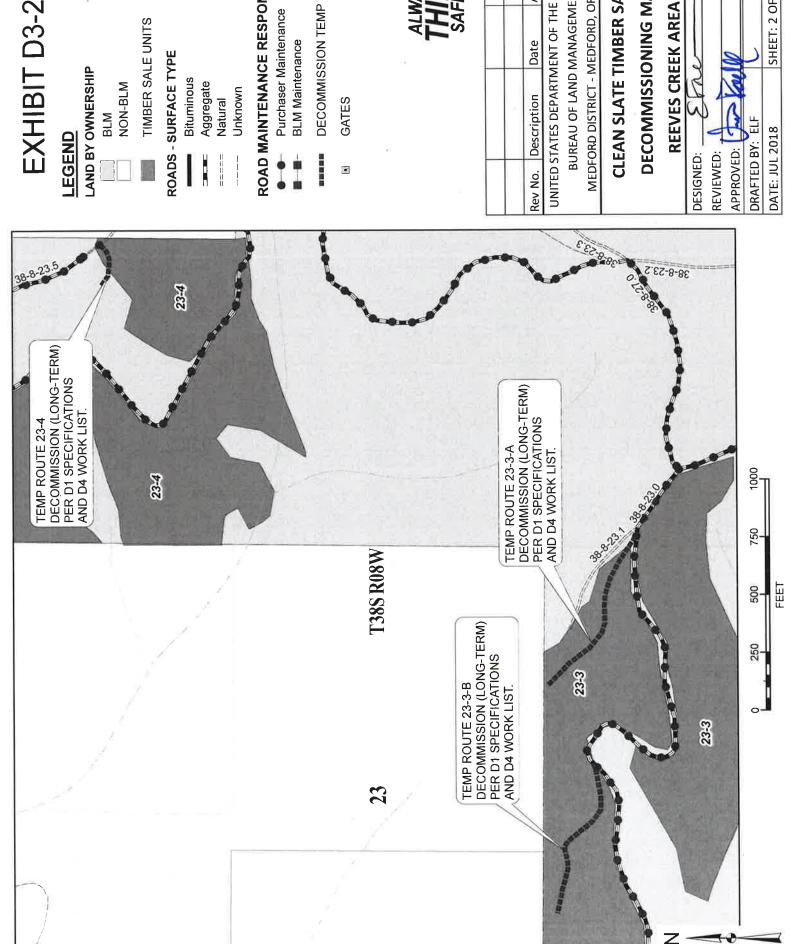
BLM Maintenance

DECOMMISSION TEMP ROUTES



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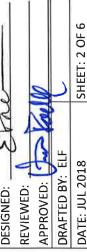
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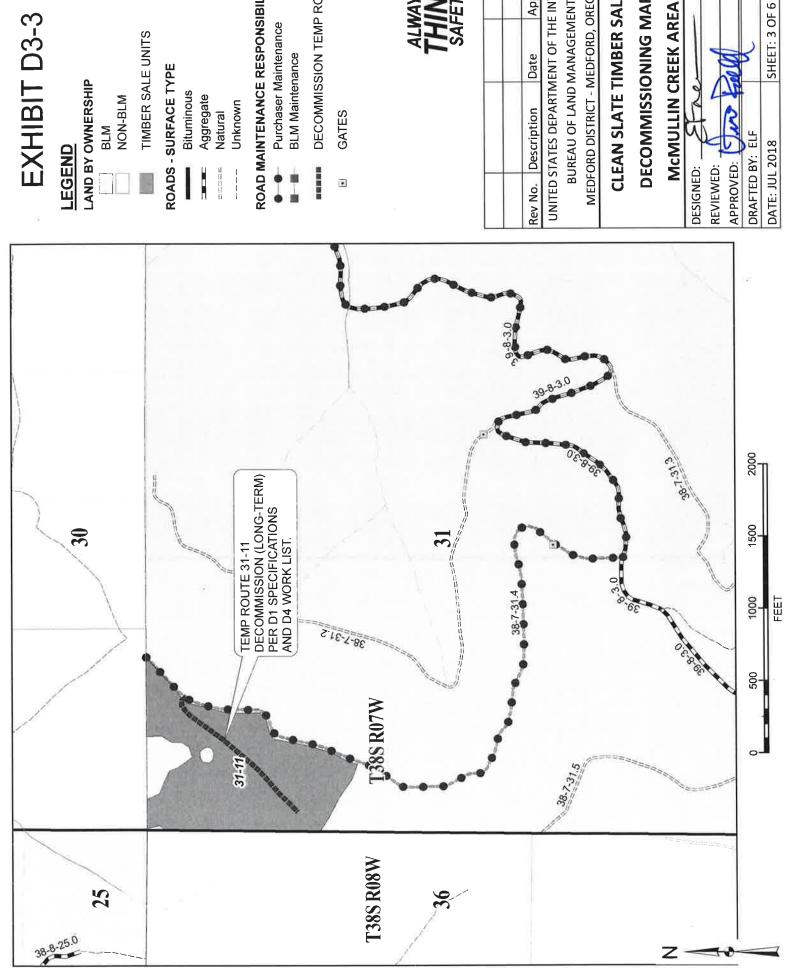
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Purchaser Maintenance

DECOMMISSION TEMP ROUTES

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LAND BY OWNERSHIP

BLM NON-BLM

Bituminous Aggregate Natural

Unknown

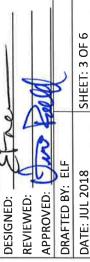
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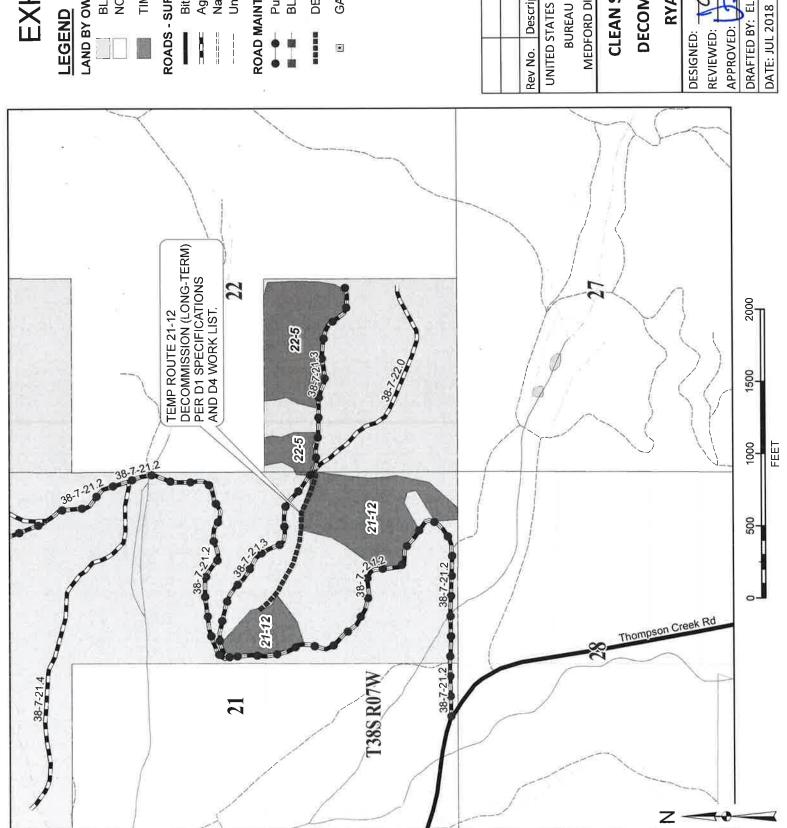
Purchaser Maintenance BLM Maintenance

DECOMMISSION TEMP ROUTES

GATES

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LAND BY OWNERSHIP



NON-BLM

TIMBER SALE UNITS



Bituminous Aggregate Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance BLM Maintenance **DECOMMISSION TEMP ROUTES**

GATES

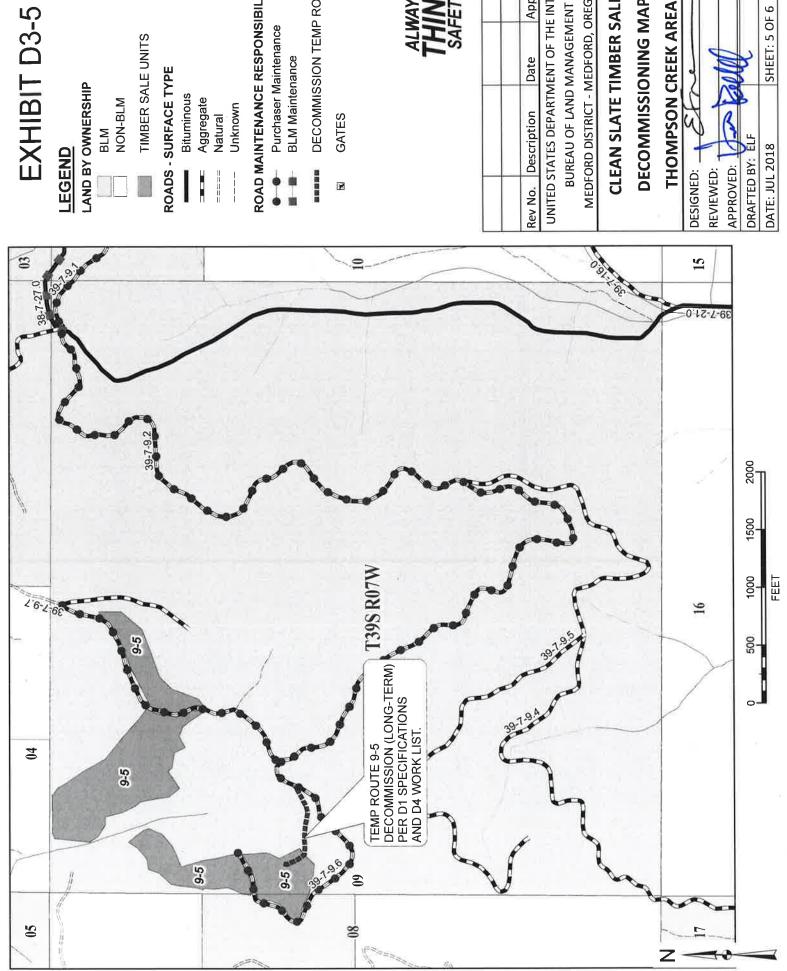


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CLEAN SLATE TIMBER SALE DECOMMISSIONING MAP

RYAN CREEK AREA





LAND BY OWNERSHIP



TIMBER SALE UNITS NON-BLM

ROADS - SURFACE TYPE

Bituminous Aggregate Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance

BLM Maintenance

DECOMMISSION TEMP ROUTES

GATES



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THOMPSON CREEK AREA ROADS - SURFACE TYPE LEGEND = 2000 3-10 1500 1000 T39S R07W TEMP ROUTE 3-11 DECOMMISSION (LONG-TERM) PER D1 SPECIFICATIONS AND D4 WORK LIST. 2 3-11 3-9 39-7-3.2 Z

EXHIBIT D3-6

LAND BY OWNERSHIP



BLM NON-BLM

TIMBER SALE UNITS

Bituminous

Aggregate Natural

Unknown

ROAD MAINTENANCE RESPONSIBILITY

Purchaser Maintenance BLM Maintenance **DECOMMISSION TEMP ROUTES**

GATES

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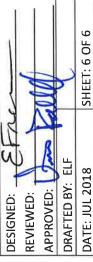


Exhibit D4

Sale Name: Clean Slate T.S. Page 1 of 3

Temp Route Decommissioning Work List

Upon completion of timber operations, all Temp Routes are to be decommissioned. See Exhibit D1, Section 3500 for specifications.

General Definitions:

<u>Decommission (Long-Term)</u>: Decommissioning shall include removing temporary culverts (if any), decompacting the surface to a depth of 8 to 12 inches (ripping or pitting), installing water bars per the Water Bar Spacing by Erosion Class Table shown on Exhibit D6, and barricading. All disturbed soils shall be seeded with approved native seed species and mulched with weed-free straw or approved native slash materials.

<u>Decommission (Partial)</u>: Decommissioning shall include removing temporary culverts (if any), decompacting half of the subgrade surface (centerline of temp to fill slope) to a depth of 8 to 12 inches (ripping or pitting), and installing water bars per the Water Bar Spacing by Erosion Class Table shown on Exhibit D6. No barricade is to be constructed. All disturbed soils shall be seeded with approved native seed species and mulched with weed-free straw.

Lake Selmac Area – See Exhibit D3-1 for Maps:

Temp Rout	<u>se 13-4-A</u>
STA	Description
0+00	Jct w/ 38-8-13.4 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
1+25	Ensure constructed water dip is functional.
2+20	Existing high point in p-line.
3+40	Ensure constructed water dip is functional.
4+25	End temp route decommissioning. Decommission constructed turnaround.
Temp Rout	<u>te 13-4-B</u>
STA	Description
0+00	Jct w/ 38-8-13.4 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
1+70	Decommission constructed turnaround.
2+50	Ensure constructed water dip is functional.
3+35	End temp route decommissioning.
Temp Rout	<u>te 13-4-C</u>
STA	Description
0+00	Jct w/ 38-8-13.4 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
0+70	Decommission constructed turnaround.
1+50	End temp route construction.
Temp Rout	re 13-3
STA	Description
0+00	Jct w/ 38-8-13.1 Road. Begin temp route decommissioning (partial).
3+00	Ensure constructed water dip is functional.
7+50	Existing high point/crest in p-line.

Exhibit D4

Sale Name: Clean Slate T.S.

Page 2 of 3

	-
14+50	Ensure constructed water dip is functional.
20+00	Ensure constructed water dip is functional. Ensure constructed water dip is functional.
23+70	End temp route decommissioning. Decommission constructed turnaround.
25+70	End temp route decommissioning. Decommission constructed turnaround.
D	
	<u>Creek Area – See Exhibit D3-2 for Map:</u> ute 23-3-A
STA	Description Description
0+00	Jct w/ 38-8-23.0 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
3+50	Ensure constructed water dip is functional.
6+50	Ensure constructed water dip is functional.
7+90	End temp route decommissioning. Decommission constructed turnaround.
Temp Ro	ute 23-3- <u>B</u>
STA	Description Description
0+00	Jct w/ 38-8-23.0 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
2+00	Ensure constructed water dip is functional.
4+50	Ensure constructed water dip is functional.
7+30	End temp route decommissioning. Decommission constructed turnaround.
Temp Ro	ute 23-4
STA	Description
0+00	Jct w/ 38-8-23.5 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
2+00	End temp route decommissioning. Decommission constructed turnaround.
McMull	in Creek Area – See Exhibit D3-3 for Map:
Temp Ro	ute 31-11
STA	Description
0+00	Jct w/ 38-7-31.4 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
2+50	Ensure constructed water dip is functional.
5+60	Existing high point/crest in p-line.
7+25	Existing low point/sag in p-line. Ensure constructed water dip is functional.
11+70	End temp route decommissioning. Decommission constructed turnaround.
	reek Area – See Exhibit D3-4 for Map:
_	<u>ute 21-12</u>
STA	Description
0+00	Jct w/ 38-7-21.3 and 38-7-22.0 Roads. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
2+70	Ensure constructed water dip is functional.
5+40	Existing low point/sag in p-line. Ensure constructed water dip is functional.
8+00	Existing high point/crest in p-line.
9+50	Ensure constructed water dip is functional.
10+80	End temp route decommissioning Decommission constructed turnground

End temp route decommissioning. Decommission constructed turnaround.

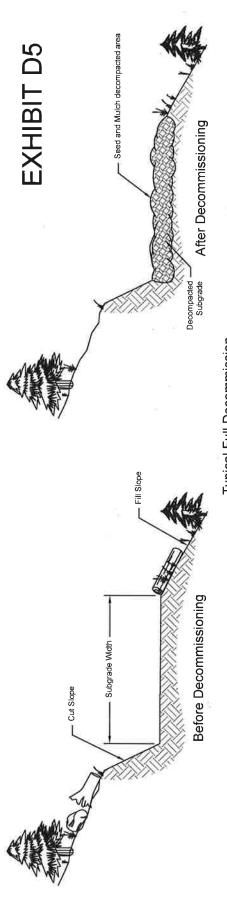
10 + 80

Exhibit D4

Sale Name: Clean Slate T.S. Page 3 of 3

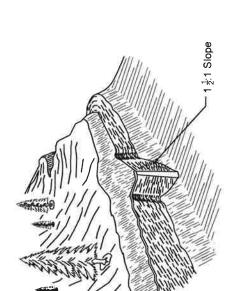
<u>Thompson Creek Area – See Exhibit D3-5 & D3-6 for Maps:</u> <u>Temp Route 9-5</u>

Temp Ro	uic 9-5
STA	Description
0+00	Jct w/ 39-7-9.6 Road. Begin temp route decommissioning (long-term). See Exhibit D3-5 for
	map.
0+40	Construct barricade per Exhibit D6.
2+50	Ensure constructed water dip is functional.
6+50	Ensure constructed water dip is functional.
8+30	End temp route decommissioning. Decommission constructed turnaround.
Temp Ro	<u>ute 3-11</u>
STA	Description
0+00	Jct w/ 39-7-2.1 Road. Begin temp route new construction. The first 85LF of this temp route
	shall be decommissioned under the terms and conditions set in the executed License
	Agreement and signed/approved Crossing Plat with Josephine County Department of
	Forestry. See Exhibit D3-6 for map.
0+85	Boundary line. Start BLM lands. Construct barricade per Exhibit D6.
1+75	Ensure constructed water dip is functional.
5+00	Ensure constructed water dip is functional.
8+20	End temp route decommissioning. Decommission constructed turnaround.

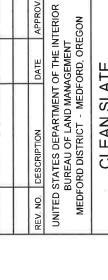


Typical Full Decommission

- 1. The Purchaser shall barricade, and decompact the temp route subgrade. Barricades shall be constructed as shown in Exhibit D6.
- 2. Ditch lines at intersecting existing system roads will be restored.
- depth of 8 to 12 inches. Where it is determined by the Authorized Officer that decompaction may cause unacceptable damage to the root systems of residual trees along a majority of the temp route, decompaction may be intermittent, or 3. Road surface shall be decompacted for its entire length using mechanical equipment. Decompact road surface to a scarification may be used instead. Decopacted areas shall be seed and mulched after completion.
- drain and have slopes of 1½:1. Where draw culverts are removed, the grade of the channel shall be restored to match existing stream. Culverts not designated as salvage for the Government shall become the property of the Contractor. All temporary culverts (if any) shall be removed from temp routes entirely. Excavated culverts shall be left open to The Contractor shall be responsible for legally disposing of material.
 - 5. See Section 1800 for Seeding and Mulching Specifications.



Typical Culvert Removal - After



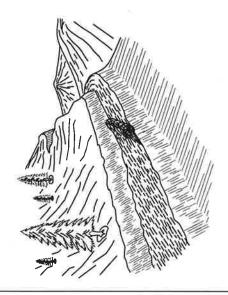
THINKALWAYS

SAFETY

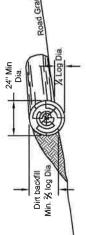




Typical Culvert Removal - Before

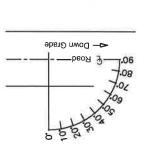


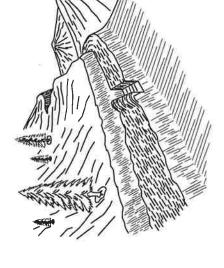
LOG BARRICADE



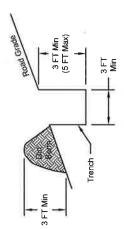
- 1. Log barricade shall be constructed as shown
 - 2. Exact location is listed in Work List. above.
- 3. All barricades shall be skewed 30 degrees.
- The length shall be sufficient to extend from the cut bank to the fill slope.
 - 5. The minimum small end diameter of the log barricade shall be 24".

SKEW DIAGRAM





TRENCH BARRICADE



- Barricade length shall extend across the entire road surface to a point sufficient to prohibit motor vehicle traffic.
 - Exact location is listed in the Work List.
- 3. All barricades shall be skewed as needed to drain or as directed by the Authorized Officer.

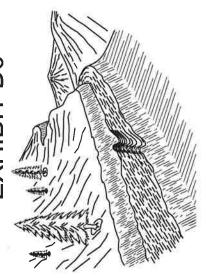
WATER BAR SPACING* BY EROSION CLASS^

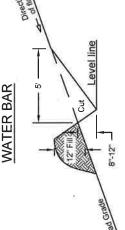
LOW	FEET	400	300	200	150	100	20
MODERATE	FEET	300	200	150	100	75	20
HIGH	FEET	200	150	100	75	50	20
ROAD	%	2-5	6-10	11-15	16-20	21-35	35+

- Spacing is determined by slope distance and is the maximum
- The erosion classes include the following rock types:
 High: Granite, sandstone, andesite porphyry, glacial or alluvial
 deposits, soft matrix conglomerate, volcanic ash, and pyrodastics. Moderate: Basalt, andesite, quartzite, hard matrix conglomerate,

Low: Metasediments, metavolcanics, and hard shale

EXHIBIT D6





- Water bars shall be constructed as shown above.
 - 2. Exact location will be flagged by the Authorized Officer prior to construction.
 - 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.

0	Li ii		
APPROV	DATE	DESCRIPTION	REV. NO.

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

BARRICADE AND **CLEAN SLATE TIMBER SALE**

WATER BAR DETAILS



ALWAYS

DRAWING NO: 0R-11-9113.4-4

UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Version: 5.2.0.99

Version: 5.2.0.99	
Summary of All Roads and Projects T.S. Contract Name: Clean Slate TS Prepared by: EFreeman Construction: 0.00 sta Decom: 0.00 sta Temp: 89.00 sta Updated: 6/14/2 Tract No: TS-18-08 Sale Date: 09/13/2 Print Date: 7/30/2018 3:37:56 Renov: 1056.51 sta	2018
200 Clearing and Grubbing: 5.6 acres	5.52
300 Excavation: 8,766 cy	.60
400 Drainage:	0.00
500 Renovation:	.35
700-1200 Surfacing: \$	30.00
1300 Geotextiles: \$	30.00
1400 Slope Protection: \$1,00 Gradation Class 2: 45 cy	6.77
1800 Soil Stabilization: 1.5 acres	1.21
2100 RoadSide Brushing:\$23,88 Manual Brushing: 19.4 acres	0.96
8000 Miscellaneous:	8.89
Mobilization: Const. \$6,238.89 Surf. \$0.00	8.89
Quarry Development: \$	30.00

Total: 3,373 mbf @ \$35.774/mbf = \$120,664.20

Notes:

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: 38-7-17.0(A) Road Name: Grange Hall Road Road Renovation: 0.98 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: acres \$0.00 \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$896.91 Blading 0.98 mi

1300 Geotextiles: \$0.00

1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.0 acres

Mobilization: Const. \$145.97 Surf. \$0.00..... \$145.97

\$0.00 Quarry Development:

Total: \$2,823.20

\$0.00

\$0.00

\$453.60

Notes:

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

8000 Miscellaneous:

Road Number: 38-7-17.0(A) Road Name: Grange Hall Road

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.98 mi = \$420.33

Compaction: $$325.47/mi \times 0.98 mi = 318.96

Water for Compaction

Water Truck 3000 Gal 2 hr x \$78.81/hr = \$157.62

Subtotal: \$896.91

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 1.00 acres = \$1,326.72

Subtotal: \$1,326.72

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 2.34% of total Costs = \$145.97

surfacing = 0% \$0.00

Subtotal: \$145.97

Quarry Development:

Subtotal: \$0.00

Total: \$2,823.20

400 Drainage:

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Culvert: 0 lf
DownSpout: 0 lf
PolyPipe: 0 lf

Blading 0.48 mi

700-1200 Surfacing: \$0.00

1400 Slope Protection: \$0.00

8000 Miscellaneous: \$453.60

Total: \$1,797.12

\$0.00

\$0.00

\$0.00

Notes:

Road Number: 38-7-17.1 Road Name: Grange Hall Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.48 mi = \$205.88

Water for Compaction

Water Truck 3000 Gal 1 hr x \$78.81/hr = \$78.81

Subtotal: \$587.24

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.50 acres = \$663.36

Subtotal: \$663.36

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 1.49% of total Costs = \$92.92

surfacing = 0% \$0.00

Quarry Development:

Subtotal: \$0.00

Total: \$1,797.12

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 38-7-19.0(D-E) Road Name: McMullin Crk Road Road Renovation: 0.25 mi 17 ft Subgrade 3 ft ditch 200 Clearing and Grubbing: acres \$0.00 \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$385.85 Blading 0.25 mi \$0.00 700-1200 Surfacing: 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.0 acres \$0.00 \$265.34 \$0.00 8000 Miscellaneous: Mobilization: Const. \$35.51 Surf. \$0.00..... \$35.51 \$0.00 Quarry Development:

Notes:

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

\$686.70

Total:

Road Number: 38-7-19.0(D-E) Road Name: McMullin Crk Road

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.25 mi = \$173.63 Compaction: \$325.47/mi x 0.25 mi = \$81.37 Clean Culverts: \$365.82/mi x 0.25 mi = \$91.46

Water for Compaction

Water Truck 3000 Gal 0.5 hr x \$78.81/hr = \$39.41

Subtotal: \$385.85

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.20 acres = \$265.34

Subtotal: \$265.34

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.57% of total Costs = \$35.51

surfacing = 0% \$0.00

Subtotal: \$35.51

Quarry Development:

Subtotal: \$0.00

Total: \$686.70

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 38-7-21.2(A) Road Name: Harmon Divide P Road Renovation: 1.13 mi 14 ft Subgrade 3 ft ditch 200 Clearing and Grubbing: acres \$0.00 \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$1,762.97 Blading 1.13 mi 700-1200 Surfacing: \$0.00 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.0 acres \$0.00 8000 Miscellaneous: \$183.68 Mobilization: Const. \$167.63 Surf. \$0.00..... \$167.63 \$0.00 Quarry Development:

Notes:

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

\$3,241.99

Total:

Road Number: 38-7-21.2(A) Road Name: Harmon Divide P

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 1.13 mi = \$784.79 Compaction: \$325.47/mi x 1.13 mi = \$367.78 Clean Culverts: \$365.82/mi x 1.13 mi = \$413.38

Water for Compaction

Water Truck 3000 Gal 2.5 hr x \$78.81/hr = \$197.03

Subtotal: \$1,762.97

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.50 acres = \$331.68 RoadSide Brushing Heavy: \$1326.72/acre x 0.60 acres = \$796.03

Subtotal: \$1,127.71

Section 8000 Miscellaneous:

Install BMP's at HPOC

Crew Cab or 3/4 Ton Pickup 2 hr x \$57.75/hr = \$115.50

General Laborer 2 hr x \$34.09/hr = \$68.18

Subtotal: \$183.68

Mobilization:

Construction - 2.69% of total Costs = \$167.63

surfacing = 0% \$0.00

Subtotal: \$167.63

Quarry Development:

Subtotal: \$0.00

Total: \$3,241.99

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: 38-7-21.3 Road Name: Harmon Divide A Road Renovation: 0.60 mi 17 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: acres \$0.00 300 Excavation: \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$570.84 Blading 0.60 mi \$0.00 1300 Geotextiles: \$0.00

Notes:

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

1400 Slope Protection:

1800 Soil Stabilization: 0.0 acres

2100 RoadSide Brushing (Manual):0.6 acres

8000 Miscellaneous:

Mobilization: Const. \$99.26 Surf. \$0.00.....

Quarry Development:

\$0.00

\$0.00

\$796.03

\$453.60

\$99.26

\$1,919.73

Total:

\$0.00

Road Number: 38-7-21.3 Road Name: Harmon Divide A

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.60 mi = \$257.35

Compaction: $$325.47/mi \times 0.60 mi = 195.28

Water for Compaction

Water Truck 3000 Gal 1.5 hr x \$78.81/hr = \$118.22

Subtotal: \$570.84

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.60 acres = \$796.03

Subtotal: \$796.03

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 1.59% of total Costs = \$99.26

surfacing = 0% \$0.00

Subtotal: \$99.26

Quarry Development:

Subtotal: \$0.00

Total: \$1,919.73

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 38-7-21.5 Road Name: Harmon Divide D

Road Renovation: 1.27 mi 17 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$1,596.89
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):1.2 acres	\$1,592.06
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$198.61 Surf. \$0.00	\$198.61

Total: \$3,841.16

\$0.00

Notes:

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

Quarry Development:

Road Number: 38-7-21.5 Road Name: Harmon Divide D

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 1.27 mi = \$544.72

Water for Compaction

Water Truck 3000 Gal 3 hr x \$78.81/hr = \$236.43

Subtotal: \$1,596.89

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 1.20 acres = \$1,592.06

Subtotal: \$1,592.06

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 3.18% of total Costs = \$198.61

surfacing = 0% \$0.00

Subtotal: \$198.61

Quarry Development:

Subtotal: \$0.00

Total: \$3,841.16

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: 38-7-31.4 Road Name: Remullin A Sp

Road Renovation: 0.98 mi 16 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$970.08
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):1.0 acres	\$1,326.72
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$149.96 Surf. \$0.00	\$149.96
Quarry Development:	\$0.00

Total: \$2,900.36

Notes:

Road Number: 38-7-31.4 Road Name: Remullin A Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.98 mi = \$420.33

Water for Compaction

Water Truck 3000 Gal 2 hr x \$78.81/hr = \$157.62

Subtotal: \$970.08

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 1.00 acres = \$1,326.72

Subtotal: \$1,326.72

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 2.40% of total Costs = \$149.96

surfacing = 0% \$0.00

Subtotal: \$149.96

Quarry Development:

Subtotal: \$0.00

Total: \$2,900.36

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 38-8-13.0 Road Name: Selmac Fire Rd Road Renovation: 0.48 mi 14 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$915.55
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):0.5 acres	\$663.36
8000 Miscellaneous:	\$91.84
Mobilization: Const. \$91.10 Surf. \$0.00	\$91.10
Quarry Development:	\$0.00

Total:

\$1,761.85

Notes:

Road Number: 38-8-13.0 Road Name: Selmac Fire Rd

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $$694.50/mi \times 0.48 mi = 333.36 Scarification: $$857.82/mi \times 0.20 mi = 171.56 Compaction: $$325.47/mi \times 0.48 mi = 156.23 Clean Culverts: $$365.82/mi \times 0.48 mi = 175.59

Water for Compaction

Water Truck 3000 Gal 1 hr x \$78.81/hr = \$78.81

Subtotal: \$915.55

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.50 acres = \$663.36

Subtotal: \$663.36

Section 8000 Miscellaneous:

Install BMP's at HPOC

Crew Cab or 3/4 Ton Pickup 1 hr x \$57.75/hr = \$57.75

General Laborer 1 hr x \$34.09/hr = \$34.09

Subtotal: \$91.84

Mobilization:

Construction - 1.46% of total Costs = \$91.10

surfacing = 0% \$0.00

Subtotal: \$91.10

Quarry Development:

Subtotal: \$0.00

Total: \$1,761.85

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 38-8-13.1 Road Name: Selmac Fire A Sp Road Renovation: 1.06 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: acres \$0.00 300 Excavation: \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$1,067.01 Blading 1.06 mi \$0.00 700-1200 Surfacing: 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.0 acres \$0.00 8000 Miscellaneous: \$907.20 Mobilization: Const. \$179.98 Surf. \$0.00...... \$179.98 \$0.00 Quarry Development:

Total:

\$3,480.91

Notes:

Road Number: 38-8-13.1 Road Name: Selmac Fire A Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 1.06 mi = \$454.64

Water for Compaction

Water Truck 3000 Gal 2 hr x \$78.81/hr = \$157.62

Subtotal: \$1,067.01

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 1.00 acres = \$1,326.72

Subtotal: \$1,326.72

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 4 hr x \$140.96/hr = \$563.84

Backhoe 4 hr x \$85.84/hr = \$343.36

Subtotal: \$907.20

Mobilization:

Construction - 2.88% of total Costs = \$179.98

surfacing = 0% \$0.00

Subtotal: \$179.98

Quarry Development:

Subtotal: \$0.00

Total: \$3,480.91

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 38-8-13.4 Road Name: Deer Selmac A Sp Road Renovation: 0.38 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$365.47
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$89.89
1800 Soil Stabilization: 0.2 acres	\$202.83
2100 RoadSide Brushing (Manual):0.4 acres	\$530.69
8000 Miscellaneous:	\$812.90
Mobilization: Const. \$109.14 Surf. \$0.00	\$109.14
Quarry Development:	\$0.00
Total:	\$2,110.92

Notes:

Road Number: 38-8-13.4 Road Name: Deer Selmac A Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00 Section 300 Excavation:

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.38 mi = \$162.99

Compaction: $$325.47/mi \times 0.38 mi = 123.68

Water for Compaction

Water Truck 3000 Gal 1 hr x \$78.81/hr = \$78.81

Subtotal: \$365.47

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00 Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Comment: Water Dip Outlet Protection

Rock Source: Commercial Furnish Class 2 type rock

Basic Rock Haul cost: $$1.05/cy \times 6cy = 6.30

Rock Haul -15% grades: $$1.05/\text{cy-mi} \times 6\text{cy} \times 1.50 \text{ mi} = 9.45 Rock Haul St& Co Roads: $$0.47/\text{cy-mi} \times 6\text{cy} \times 20.00 \text{ mi} = 56.40 Placement on Fill slopes: $6\text{cy} \times ($2.87/\text{cy} \times 1.03) = 17.74

Placement on Fill slopes: $6\text{Cy} \times (\$2.87/\text{Cy} \times 1.03) = \17.74 Subtotal: \$89.89

Section 1800 Soil Stabilization:

Comment: 2 water dip stabilization sites @ 0.1 acres/site Dry Method with Mulch: \$562.14/acre x 0.20 acres = \$112.43

Includes Small Quantity Factor of 1.51

+ Seed Cost: $$132.00/acre \times 0.20 acres = 26.40

+ Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00

Subtotal: \$202.83

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.40 acres = \$530.69

Subtotal: \$530.69

Section 8000 Miscellaneous:

Reconstruct Water Dip

Tractor: D5 with winch 2 hr x \$93.81/hr = \$187.62

Backhoe 2 hr x \$85.84/hr = \$171.68

Reconstruct Turnaround

Backhoe 2 hr x \$85.84/hr = \$171.68

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Subtotal: \$812.90

Mobilization:

Construction - 1.75% of total Costs = \$109.14

surfacing = 0% \$0.00

Subtotal: \$109.14

Quarry Development:

Subtotal: \$0.00

Total: \$2,110.92

Subtotal:

\$0.00

CONSTRUCTION SUMMARY

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: 38-8-23.0 Road Name: Sis's Gap Sp

Road Renovation: 0.67 mi 17 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$713.69
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):0.6 acres	\$796.03
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$107.05 Surf. \$0.00	\$107.05
Quarry Development:	\$0.00

Total: \$2,070.37

Notes:

Road Number: 38-8-23.0 Road Name: Sis's Gap Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.67 mi = \$287.37

Water for Compaction

Water Truck 3000 Gal 1.25 hr x \$78.81/hr = \$98.51

Subtotal: \$713.69

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.60 acres = \$796.03

Subtotal: \$796.03

Section 8000 Miscellaneous:

Reconstruct Turnaround

Backhoe 2 hr x \$85.84/hr = \$171.68

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Subtotal: \$453.60

Mobilization:

Construction - 1.72% of total Costs = \$107.05

surfacing = 0% \$0.00

Subtotal: \$107.05

Quarry Development:

Subtotal: \$0.00

Total: \$2,070.37

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: 38-8-23.5 Road Name: Sis's Gap Sp

Road Renovation: 0.33 mi 17 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$327.76
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres	\$398.02
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$64.30 Surf. \$0.00	\$64.30
Quarry Development:	\$0.00

Total: \$1,243.68

Notes:

Road Number: 38-8-23.5 Road Name: Sis's Gap Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.33 mi = \$141.54

Compaction: $$325.47/mi \times 0.33 mi = 107.41

Water for Compaction

Water Truck 3000 Gal 1 hr x \$78.81/hr = \$78.81

Subtotal: \$327.76

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: $$1326.72/acre \times 0.30 acres = 398.02

Subtotal: \$398.02

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 1.03% of total Costs = \$64.30

surfacing = 0% \$0.00

Subtotal: \$64.30

Quarry Development:

Subtotal: \$0.00

Total: \$1,243.68

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 38-8-27.0 Road Name: Sis's Gap Sp 9

Road Renovation: 3.52 mi 14 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$5,652.68
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):3.4 acres	\$3,582.14
8000 Miscellaneous:	\$410.48
Mobilization: Const. \$525.90 Surf. \$0.00	\$525.90
Quarry Development:	\$0.00

Total: \$10,171.21

Notes:

Road Number: 38-8-27.0 Road Name: Sis's Gap Sp 9

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 3.52 mi = \$2,444.64 Scarification: \$857.82/mi x 0.26 mi = \$223.03 Compaction: \$325.47/mi x 3.52 mi = \$1,145.65 Clean Culverts: \$365.82/mi x 3.52 mi = \$1,287.69

Water for Compaction

Water Truck 3000 Gal 7 hr x \$78.81/hr = \$551.67

Subtotal: \$5,652.68

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 1.40 acres = \$928.70 RoadSide Brushing Heavy: \$1326.72/acre x 2.00 acres = \$2,653.44

Subtotal: \$3,582.14

Section 8000 Miscellaneous:

Install BMP's at HPOC

Crew Cab or 3/4 Ton Pickup 2 hr x \$57.75/hr = \$115.50

General Laborer 2 hr x \$34.09/hr = \$68.18

Reconstruct Turnaround

Backhoe 1 hr x \$85.84/hr = \$85.84

Motor Grader 14M 1 hr x \$140.96/hr = \$140.96

Subtotal: \$410.48

Mobilization:

Construction - 8.43% of total Costs = \$525.90

surfacing = 0% \$0.00

Subtotal: \$525.90

Quarry Development:

Subtotal: \$0.00

Total: \$10,171.21

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 39-7-2.1 Road Name: Upper Thompson Divide Road Renovation: 0.36 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$350.39
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$189.04
1800 Soil Stabilization: 0.2 acres	\$202.83
2100 RoadSide Brushing (Manual):0.3 acres	\$398.02
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$86.90 Surf. \$0.00	\$86.90
Quarry Development:	\$0.00

Notes:

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

\$1,680.77

Total:

Road Number: 39-7-2.1 Road Name: Upper Thompson Divide

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $$428.91/mi \times 0.36 mi = 154.41

Compaction: $$325.47/mi \times 0.36 mi = 117.17

Water for Compaction

Water Truck 3000 Gal 1 hr x \$78.81/hr = \$78.81

Subtotal: \$350.39

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00 Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Comment: Water Dip Outlet Protection

Rock Source: Commercial Furnish Class 2 type rock

Basic Rock Haul cost: $$1.05/cy \times 6cy = 6.30

Rock Haul +15% grades: \$2.10/cy-mi x 6cy x 5.00 mi= \$63.00 Rock Haul -15% grades: \$1.05/cy-mi x 6cy x 5.00 mi= \$31.50 Rock Haul St& Co Roads: \$0.47/cy-mi x 6cy x 25.00 mi= \$70.50

Placement on Fill slopes: $6 \text{cy} \times (\$2.87/\text{cy} \times 1.03) = \17.74

Subtotal: \$189.04

Section 1800 Soil Stabilization:

Comment: 2 water dip stabilization sites @ 0.1 acres/site Dry Method with Mulch: \$562.14/acre x 0.20 acres = \$112.43

Includes Small Quantity Factor of 1.51

+ Seed Cost: \$132.00/acre x 0.20 acres = \$26.40

+ Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00

Subtotal: \$202.83

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.30 acres = \$398.02

Subtotal: \$398.02

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 1.39% of total Costs = \$86.90

surfacing = 0% \$0.00

Subtotal: \$86.90

Quarry Development:

Subtotal: \$0.00

Total: \$1,680.77

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: 39-7-3.4 Road Name: Thompson Crk E

Road Renovation: 0.94 mi 14 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.94 mi	\$1,460.26
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):0.9 acres	\$1,194.05
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$169.45 Surf. \$0.00	\$169.45
Quarry Development:	\$0.00

Total: \$3,277.37

Notes:

Road Number: 39-7-3.4 Road Name: Thompson Crk E

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.94 mi = \$652.83 Compaction: \$325.47/mi x 0.94 mi = \$305.94 Clean Culverts: \$365.82/mi x 0.94 mi = \$343.87

Water for Compaction

Water Truck 3000 Gal 2 hr x \$78.81/hr = \$157.62

Subtotal: \$1,460.26

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.90 acres = \$1,194.05

Subtotal: \$1,194.05

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 2.72% of total Costs = \$169.45

surfacing = 0% \$0.00

Subtotal: \$169.45

Quarry Development:

Subtotal: \$0.00

Total: \$3,277.37

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 39-7-3.6(A) Road Name: Champion Sec Two Road Renovation: 0.95 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: acres \$0.00 300 Excavation: \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$984.03 Blading 0.95 mi \$0.00 700-1200 Surfacing: 1300 Geotextiles: \$0.00 1400 Slope Protection: \$727.85 Gradation Class 2: 33 cy 1800 Soil Stabilization: 1.1 acres \$1,115.56 Includes Small Quantity Factor of 1.51 2100 RoadSide Brushing (Manual):0.9 acres \$597.02 Mobilization: Const. \$294.46 Surf. \$0.00..... \$294.46 Quarry Development: \$0.00 Total: \$5,695.07

Notes:

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

Road Number: 39-7-3.6(A) Road Name: Champion Sec Two

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.95 mi = \$407.46

Water for Compaction

Water Truck 3000 Gal 2 hr x \$78.81/hr = \$157.62

Subtotal: \$984.03

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Comment: Water Dip Outlet Protection

Rock Source: Commercial Furnish Class 2 type rock

Basic Rock Haul cost: $$1.05/\text{cy} \times 33\text{cy} = 34.65

Rock Haul +15% grades: \$2.10/cy-mi x 33cy x 1.00 mi= \$69.30 Rock Haul -15% grades: \$1.05/cy-mi x 33cy x 4.00 mi= \$138.60 Rock Haul St& Co Roads: \$0.47/cy-mi x 33cy x 25.00 mi= \$387.75 Placement on Fill slopes: 33cy x (\$2.87/cy x 1.03) = \$97.55

Subtotal: \$727.85

Section 1800 Soil Stabilization:

Comment: 11 water dip stabilization sites @ 0.1 acres/site Dry Method with Mulch: \$562.14/acre x 1.10 acres = \$618.36

Includes Small Quantity Factor of 1.51

+ Seed Cost: \$132.00/acre x 1.10 acres = \$145.20

+ Mulch Cost: \$320.00/acre x 1.10 acres = \$352.00

Subtotal: \$1,115.56

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 0.90 acres = \$597.02

Subtotal: \$597.02

Section 8000 Miscellaneous:

Reconstruct Water Dips

Tractor: D5 with winch 11 hr x \$93.81/hr = \$1,031.91

Backhoe 11 hr x \$85.84/hr = \$944.24

Subtotal: \$1,976.15

Mobilization:

Construction - 4.72% of total Costs = \$294.46

surfacing = 0% \$0.00

Subtotal: \$294.46

Quarry Development:

Subtotal: \$0.00

Total: \$5,695.07

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 39-7-9.1(A) Road Name: Thompson Divide E

Road Renovation: 1.50 mi 14 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$2,315.12
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):1.5 acres	\$1,990.08
8000 Miscellaneous:	
Mobilization: Const. \$234.74 Surf. \$0.00	\$234.74

Total: \$4,539.93

\$0.00

Notes:

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

Quarry Development:

Road Number: 39-7-9.1(A) Road Name: Thompson Divide E

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 1.50 mi = \$1,041.75 Compaction: \$325.47/mi x 1.50 mi = \$488.21 Clean Culverts: \$365.82/mi x 1.50 mi = \$548.73

Water for Compaction

Water Truck 3000 Gal 3 hr x \$78.81/hr = \$236.43

Subtotal: \$2,315.12

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 1.50 acres = \$1,990.08

Subtotal: \$1,990.08

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 3.76% of total Costs = \$234.74

surfacing = 0% \$0.00

Subtotal: \$234.74

Quarry Development:

Subtotal: \$0.00

Total: \$4,539.93

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 39-7-9.2 Road Name: Bear Crk Divide W Road Renovation: 2.47 mi 14 ft Subgrade 3 ft ditch 200 Clearing and Grubbing: acres \$0.00 300 Excavation: \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$3,816.95 Blading 2.47 mi \$0.00 700-1200 Surfacing: 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.0 acres \$0.00 8000 Miscellaneous: \$453.60 Mobilization: Const. \$406.46 Surf. \$0.00..... \$406.46 \$0.00 Quarry Development:

Notes:

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

\$7,861.14

Total:

Road Number: 39-7-9.2 Road Name: Bear Crk Divide W

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 2.47 mi = \$1,715.42 Compaction: \$325.47/mi x 2.47 mi = \$803.91 Clean Culverts: \$365.82/mi x 2.47 mi = \$903.58

Water for Compaction

Water Truck 3000 Gal 5 hr x \$78.81/hr = \$394.05

Subtotal: \$3,816.95

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 2.40 acres = \$3,184.13

Subtotal: \$3,184.13

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 6.51% of total Costs = \$406.46

surfacing = 0% \$0.00

Subtotal: \$406.46

Quarry Development:

Subtotal: \$0.00

Total: \$7,861.14

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 39-7-9.6 Road Name: Bear Remains Sp

Road Renovation: 0.53 mi 14 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$813.28
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):0.5 acres	\$663.36
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$105.24 Surf. \$0.00	\$105.24
Quarry Development:	\$0.00

Total: \$2,035.48

Notes:

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

Road Number: 39-7-9.6 Road Name: Bear Remains Sp

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.53 mi = \$368.09 Compaction: \$325.47/mi x 0.53 mi = \$172.50 Clean Culverts: \$365.82/mi x 0.53 mi = \$193.88

Water for Compaction

Water Truck 3000 Gal 1 hr x \$78.81/hr = \$78.81

Subtotal: \$813.28

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.50 acres = \$663.36

Subtotal: \$663.36

Section 8000 Miscellaneous:

Reconstruct Turnaround

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 1.69% of total Costs = \$105.24

surfacing = 0% \$0.00

Subtotal: \$105.24

Quarry Development:

Subtotal: \$0.00

Total: \$2,035.48

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: 39-8-3.0(E) Road Name: Reeves Crk Rdge Road Renovation: 1.13 mi 16 ft Subgrade 3 ft ditch 200 Clearing and Grubbing: acres \$0.00 300 Excavation: \$0.00 400 Drainage: \$0.00 Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$1,802.37 Blading 1.13 mi 700-1200 Surfacing: \$0.00 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00

Notes:

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

1800 Soil Stabilization: 0.0 acres

8000 Miscellaneous:

Mobilization: Const. \$182.85 Surf. \$0.00.......

Quarry Development:

\$0.00

\$91.84

\$0.00

\$3,536.46

\$182.85

Total:

Road Number: 39-8-3.0(E) Road Name: Reeves Crk Rdge

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 1.13 mi = \$784.79 Compaction: \$325.47/mi x 1.13 mi = \$367.78 Clean Culverts: \$365.82/mi x 1.13 mi = \$413.38

Water for Compaction

Water Truck 3000 Gal 3 hr x \$78.81/hr = \$236.43

Subtotal: \$1,802.37

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 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 1.10 acres = \$1,459.39

Subtotal: \$1,459.39

Section 8000 Miscellaneous:

Install BMP's at HPOC

Crew Cab or 3/4 Ton Pickup 1 hr x \$57.75/hr = \$57.75

General Laborer 1 hr x \$34.09/hr = \$34.09

Subtotal: \$91.84

Mobilization:

Construction - 2.93% of total Costs = \$182.85

surfacing = 0% \$0.00

Subtotal: \$182.85

Quarry Development:

Subtotal: \$0.00

Total: \$3,536.46

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 13-3 Road Name: Temp Route
Temporary Road: 0.45 mi 14 ft Subgrade 0 ft ditch

Temporary Road: 0.45 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: 1.6 acres	\$5,234.65
300 Excavation: 2,663 cy	\$6,941.73
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$1,518.78
Mobilization: Const. \$746.71 Surf. \$0.00	\$746.71
Quarry Development:	\$0.00

Total: \$14,441.87

Notes:

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

Road Number: Temp 13-3 Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.1 + 1 + 0.1 = 3.74

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.74 x

Total Acres: 1.57 = \$5,234.65

Subtotal: \$5,234.65

Section 300 Excavation:

Excavation - Common: $$2.01/\text{cy} \times 2,663 \text{ cy} = $5,352.63$

Embankment Placement & Compaction 306.f Common: $$0.25/\text{cy} \times 2,663 \text{ cy} = 665.75

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 23.7 sta = \$642.74

Blading without ditch: \$11.84/station x 23.70 stations = \$280.61

Subtotal: \$6,941.73

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 4 hr x \$155.01/hr = \$620.04Excavator -Small (1.5 CY) 4 hr x \$98.12/hr = \$392.48

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$1,518.78

Mobilization:

Construction - 11.97% of total Costs = \$746.71

surfacing = 0% \$0.00

Subtotal: \$746.71

Quarry Development:

Subtotal: \$0.00

Total: \$14,441.87

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 13-4-A Road Name: Temp Route

Temporary Road: 0.08 mi 14 ft Subgrade 0 ft ditch

Temporary Road: 0.08 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: 0.3 acres	\$833.54
300 Excavation: 379 cy	\$1,022.12
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$759.39
Mobilization: Const. \$142.58 Surf. \$0.00	\$142.58
Quarry Development:	\$0.00

Total: \$2,757.64

Notes:

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

Road Number: Temp 13-4-A Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.1 + 1 + 0.1 = 3.74

Base Cost/Acre: $$891.49 \times Adjustment Factor: 3.74 \times$

Total Acres: 0.25 = \$833.54

Subtotal: \$833.54

Section 300 Excavation:

Excavation - Common: $$2.01/\text{cy} \times 379 \text{ cy} = 761.79

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 379 cy = \$94.75

Subgrade Compaction: 4 Sta/hr $$27.12/sta. \times 4.3 sta = 115.26 Blading without ditch: $$11.84/station \times 4.25 stations = 50.32

Subtotal: \$1,022.12

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 1 hr x \$155.01/hr = \$155.01Excavator -Small (1.5 CY) 1 hr x \$98.12/hr = \$98.12

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$759.39

Mobilization:

Construction - 2.29% of total Costs = \$142.58

surfacing = 0% \$0.00

Subtotal: \$142.58

Quarry Development:

Subtotal: \$0.00

Total: \$2,757.64

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 13-4-B Road Name: Temp Route
Temporary Road: 0.06 mi 14 ft Subgrade 0 ft ditch

Temporary Road: 0.06 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: 0.2 acres	\$800.20
300 Excavation: 287 cy	\$779.14
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$759.39
Mobilization: Const. \$127.52 Surf. \$0.00	\$127.52
Quarry Development:	\$0.00
	40 455 04

Total: \$2,466.24

Notes:

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

Road Number: Temp 13-4-B Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.1 + 1 + 0.1 = 3.74

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.74 x

Total Acres: 0.24 = \$800.20

Subtotal: \$800.20

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 287 cy = 576.87

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 287 cy = \$71.75

Subgrade Compaction: 4 Sta/hr $$27.12/sta. \times 3.4 sta = 90.85 Blading without ditch: $$11.84/station \times 3.35 stations = 39.66

Subtotal: \$779.14

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 1 hr x \$155.01/hr = \$155.01Excavator -Small (1.5 CY) 1 hr x \$98.12/hr = \$98.12

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$759.39

Mobilization:

Construction - 2.04% of total Costs = \$127.52

surfacing = 0% \$0.00

Subtotal: \$127.52

Quarry Development:

Subtotal: \$0.00

Total: \$2,466.24

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 13-4-C Road Name: Temp Route
Temporary Road: 0.03 mi 14 ft Subgrade 0 ft ditch

Temporary Road: 0.03 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: 0.1 acres	\$300.08
300 Excavation: 160 cy	\$420.04
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$506.26
Mobilization: Const. \$66.87 Surf. \$0.00	\$66.87
Quarry Development:	\$0.00

Total: \$1,293.24

Notes:

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

Road Number: Temp 13-4-C Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor:2.54 + 0.1 + 1 + 0.1 = 3.74

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.74 x

Total Acres: 0.09 = \$300.08

Subtotal: \$300.08

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 160 cy = 321.60

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 160 cy = \$40.00

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 1.5 sta = \$40.68

Blading without ditch: \$11.84/station x 1.50 stations = \$17.76

Subtotal: \$420.04

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$506.26

Mobilization:

Construction - 1.07% of total Costs = \$66.87

surfacing = 0% \$0.00

Subtotal: \$66.87

Quarry Development:

Subtotal: \$0.00

Total: \$1,293.24

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018 Road Number: Temp 21-12 Road Name: Temp Route

Temporary Road: 0.20 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.6 acres	\$1,531.04
300 Excavation: 724 cy	\$2,057.01
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$1,265.65
Mobilization: Const. \$264.64 Surf. \$0.00	\$264.64
Quarry Development:	\$0.00
Total:	\$5,118.34

Notes:

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

Road Number: Temp 21-12 Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Medium (Clearing): Adjustment Factor (1.67)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1)

Total Adjustment Factor: 1.67 + 0 + 1 + 0.1 = 2.77

Base Cost/Acre: $$891.49 \times Adjustment Factor: 2.77 \times$

Total Acres: 0.62 = \$1,531.04

Subtotal: \$1,531.04

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 724 cy = $1,455.24$

Embankment Placement & Compaction 306.f Common: $$0.25/\text{cy} \times 724 \text{ cy} = 181.00

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 10.8 sta = \$292.90

Blading without ditch: \$11.84/station x 10.80 stations = \$127.87

Subtotal: \$2,057.01

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 3 hr x \$155.01/hr = \$465.03Excavator -Small (1.5 CY) 3 hr x \$98.12/hr = \$294.36

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$1,265.65

Mobilization:

Construction - 4.24% of total Costs = \$264.64

surfacing = 0% \$0.00

Subtotal: \$264.64

Quarry Development:

Subtotal: \$0.00

Total: \$5,118.34

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 23-3-A Road Name: Temp Route

Temporary Road: 0.15 mi 14 ft Subgrade 0 ft ditch

Temporary Road: 0.15 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: 0.5 acres	\$1,111.24
300 Excavation: 388 cy	\$1,184.66
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$759.39
Mobilization: Const. \$166.59 Surf. \$0.00	\$166.59
Quarry Development:	\$0.00

Total: \$3,221.88

Notes:

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

Road Number: Temp 23-3-A Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Medium (Clearing): Adjustment Factor (1.67)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1)

Total Adjustment Factor: 1.67 + 0 + 1 + 0.1 = 2.77

Base Cost/Acre: $$891.49 \times Adjustment Factor: 2.77 \times$

Total Acres: 0.45 = \$1,111.24

Subtotal: \$1,111.24

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 388 cy = 779.88

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 388 cy = \$97.00

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 7.9 sta = \$214.25

Blading without ditch: \$11.84/station x 7.90 stations = \$93.54

Subtotal: \$1,184.66

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 1 hr x \$155.01/hr = \$155.01

Excavator -Small (1.5 CY) 1 hr x \$98.12/hr = \$98.12

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$759.39

Mobilization:

Construction - 2.67% of total Costs = \$166.59

surfacing = 0% \$0.00

Subtotal: \$166.59

Quarry Development:

Subtotal: \$0.00

Total: \$3,221.88

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 23-3-B Road Name: Temp Route

Temporary Road: 0.14 mi 14 ft Subgrade 0 ft ditch

remporary Road. 0.14 mil 14 it Subgrade 0 it ditti	
200 Clearing and Grubbing: 0.7 acres	\$2,293.63
300 Excavation: 1,796 cy	\$4,343.37
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$1,012.52
Mobilization: Const. \$417.08 Surf. \$0.00	\$417.08
Quarry Development:	\$0.00

Total: \$8,066.59

Notes:

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

Road Number: Temp 23-3-B Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54) 31-45% (Avg Side Slopes): Adjustment Factor (0.2)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor:2.54 + 0.2 + 1 + 0.1 = 3.84

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.84 x

Total Acres: 0.67 = \$2,293.63

Subtotal: \$2,293.63

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 1,796 cy = $3,609.96$

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 1,796 cy = \$449.00

Subgrade Compaction: 4 Sta/hr $$27.12/sta. \times 7.3 sta = 197.98 Blading without ditch: $$11.84/station \times 7.30 stations = 86.43

Subtotal: \$4,343.37

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$1,012.52

Mobilization:

Construction - 6.69% of total Costs = \$417.08

surfacing = 0% \$0.00

Subtotal: \$417.08

Quarry Development:

Subtotal: \$0.00

Total: \$8,066.59

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 23-4 Road Name: Temp Route

Temporary Road: 0.04 mi 14 ft Subgrade 0 ft ditch

Temporary Road: 0.04 ml 14 it Subgrade 0 it ditch	
200 Clearing and Grubbing: 0.1 acres	\$389.40
300 Excavation: 98 cy	\$299.40
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$506.26
Mobilization: Const. \$65.16 Surf. \$0.00	\$65.16
Quarry Development:	\$0.00
matal.	¢1 260 22

Total: \$1,260.22

Notes:

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

Road Number: Temp 23-4 Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1)

Total Adjustment Factor: 2.54 + 0 + 1 + 0.1 = 3.64

Base Cost/Acre: $$891.49 \times Adjustment Factor: 3.64 \times Total Acres: 0.12 = 389.40

Subtotal: \$389.40

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 98 \ cy = 196.98

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 98 cy = \$24.50

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 2.0 sta = \$54.24

Blading without ditch: \$11.84/station x 2.00 stations = \$23.68

Subtotal: \$299.40

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$506.26

Mobilization:

Construction - 1.04% of total Costs = \$65.16

surfacing = 0% \$0.00

Subtotal: \$65.16

Quarry Development:

Subtotal: \$0.00

Total: \$1,260.22

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 3-11 Road Name: Temp Route

Temporary Road: 0.16 mi 14 ft Subgrade 0 ft ditch

remporary road. 0.10 mil 14 it Subgrade 0 it ditem	
200 Clearing and Grubbing: 0.5 acres	\$1,525.16
300 Excavation: 549 cy	\$1,560.21
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$1,012.52
Mobilization: Const. \$223.43 Surf. \$0.00	\$223.43
Quarry Development:	\$0.00
Total:	\$4,321.33

Notes:

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

Road Number: Temp 3-11 Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1)

Total Adjustment Factor: 2.54 + 0 + 1 + 0.1 = 3.64

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.64 x

Total Acres: 0.47 = \$1,525.16

Subtotal: \$1,525.16

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 549 cy = $1,103.49$

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 549 cy = \$137.25

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 8.2 sta = \$222.38

Blading without ditch: \$11.84/station x 8.20 stations = \$97.09

Subtotal: \$1,560.21

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02

Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02

Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$1,012.52

Mobilization:

Construction - 3.58% of total Costs = \$223.43

surfacing = 0% \$0.00

Subtotal: \$223.43

Quarry Development:

Subtotal: \$0.00

Total: \$4,321.33

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Temporary Road: 0.22 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.7 acres	\$2,174.17
300 Excavation: 784 cy	\$2,227.67
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$1,012.52
Mobilization: Const. \$295.21 Surf. \$0.00	\$295.21
Quarry Development:	\$0.00
Total:	\$5,709.57

Notes:

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

Road Number: Temp 31-11 Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

1-15% (Avg Side Slopes): Adjustment Factor (0)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1)

Total Adjustment Factor: 2.54 + 0 + 1 + 0.1 = 3.64

Base Cost/Acre: $$891.49 \times Adjustment Factor: 3.64 \times$

Total Acres: 0.67 = \$2,174.17

Subtotal: \$2,174.17

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 784 cy = $1,575.84$

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 784 cy = \$196.00

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 11.7 sta = \$317.30

Blading without ditch: \$11.84/station x 11.70 stations = \$138.53

Subtotal: \$2,227.67

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$1,012.52

Mobilization:

Construction - 4.73% of total Costs = \$295.21

surfacing = 0% \$0.00

Subtotal: \$295.21

Quarry Development:

Subtotal: \$0.00

Total: \$5,709.57

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T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Road Number: Temp 9-5 Road Name: Temp Route

Temporary Road: 0.16 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.5 acres	\$1,600.40
300 Excavation: 938 cy	\$2,443.25
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$1,012.52
Mobilization: Const. \$275.68 Surf. \$0.00	\$275.68
Quarry Development:	\$0.00
motal:	čE 221 0E

Total: \$5,331.85

Notes:

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

Road Number: Temp 9-5 Road Name: Temp Route

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.1 + 1 + 0.1 = 3.74

Base Cost/Acre: \$891.49 x Adjustment Factor: 3.74 x

Total Acres: 0.48 = \$1,600.40

Subtotal: \$1,600.40

Section 300 Excavation:

Excavation - Common: $$2.01/cy \times 938 cy = $1,885.38$

Embankment Placement & Compaction 306.f Common: \$0.25/cy x 938 cy = \$234.50

Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 8.3 sta = \$225.10

Blading without ditch: \$11.84/station x 8.30 stations = \$98.27

Subtotal: \$2,443.25

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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 2100 Roadside Brushing:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Water Dip

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Construct Turnaround

Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02 Excavator -Small (1.5 CY) 2 hr x \$98.12/hr = \$196.24

Subtotal: \$1,012.52

Mobilization:

Construction - 4.42% of total Costs = \$275.68

surfacing = 0% \$0.00

Subtotal: \$275.68

Quarry Development:

Subtotal: \$0.00

Total: \$5,331.85

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

Average Mobilization distance = 25 miles Factor = 0.59

Mobilization: Construction

Graders-all: 1 ea x $(0.59 \times $410.00/ea + 15 \text{ mi } \times $14.10/mi) = 453.40

Brush Cutter: 1 ea x (0.59 x \$410.00/ea) = \$241.90

Rollers & Comp: 1 ea x (0.59 x \$410.00/ea + 15 mi x \$21.70/mi) = \$567.40 RTBackhoes 24/30: 1 ea x (0.59 x \$305.00/ea + 15 mi x \$5.65/mi) = \$264.70 Tractors <= D7: 1 ea x (0.59 x \$635.00/ea + 15 mi x \$31.00/mi) = \$839.65 Tractors >= D8: 1 ea x (0.59 x \$861.00/ea + 15 mi x \$47.50/mi) = \$1,220.49 Water Truck: 1 ea x (0.59 x \$95.00/ea + 15 mi x \$3.94/mi) = \$115.15 Excavators(Small):1 ea x (0.59 x \$410.00/ea + 15 mi x \$19.62/mi) = \$536.20

Equipment Washing: 8 ea x (\$250.00) /ea = \$2,000.00

Subtotal: \$6,238.89

Mobilization: Surfacing

Subtotal: \$0.00

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: Clean Slate TS Sale Date: 09/13/2018

- I	37 1	~ .	-	-	-	_
Road	Number	Const	Improv	Renov	Decomm	Temp
	38-7-17.0((A)		51.74		
	38-7-17.1	()		25.34		
	38-7-19.0(13.20		
	38-7-21.2((A)		59.66		
	38-7-21.3			31.68		
	38-7-21.5			67.06		
	38-7-31.4			51.74		
	38-8-13.0			25.34		
	38-8-13.1			55.97		
	38-8-13.4			20.06		
	38-8-23.0			35.38		
	38-8-23.5			17.42		
	38-8-27.0			185.86		
	39-7-2.1			19.01		
	39-7-3.4			49.63		
	39-7-3.6(<i>Y</i>)		50.16		
	39-7-9.1(<i>Y</i>)		79.20		
	39-7-9.2			130.42		
	39-7-9.6			27.98		
	39-8-3.0(E	C)		59.66		
	Temp 13-3					23.70
	Temp 13-4-	-A				4.25
	Temp 13-4-	-B				3.35
	Temp 13-4-	-C				1.50
	Temp 21-12	2				10.80
	Temp 23-3-	-A				7.90
	Temp 23-3-					7.30
	Temp 23-4					2.00
	Temp 3-11					8.20
	Temp 31-11	_				11.70
	Temp 9-5					8.30
	Total Sta:			1,056.51		89.00

200 Clearing and Grubbing	Clearing
	acres
38-7-17.0(A)	0.0
38-7-17.1	0.0
38-7-19.0(D-E)	0.0
38-7-21.2(A)	0.0
38-7-21.3	0.0
38-7-21.5	0.0
38-7-31.4	0.0
38-8-13.0	0.0
38-8-13.1	0.0
38-8-13.4	0.0
38-8-23.0	0.0
38-8-23.5	0.0
38-8-27.0	0.0
39-7-2.1	0.0
39-7-3.4	0.0
39-7-3.6	0.0

Continuation of Construction Quantities

39-7-9.1(A)		0.0
39-7-9.2		0.0
39-7-9.6		0.0
39-8-3.0(E)		0.0
Temp 13-3		1.6
Temp 13-4-A		0.3
Temp 13-4-B		0.2
Temp 13-4-C		0.1
Temp 21-12		0.6
Temp 23-3-A		0.5
Temp 23-3-B		0.7
Temp 23-4		0.1
Temp 3-11		0.5
Temp 31-11		0.7
Temp 9-5		0.5
	Totals:	5.6

300 Excavation	Excav	Haul	Haul
	LCY.s	sta-yds	yd-mi
Temp 13-3	2,663	0	0
Temp 13-4-A	379	0	0
Temp 13-4-B	287	0	0
Temp 13-4-C	160	0	0
Temp 21-12	724	0	0
Temp 23-3-A	388	0	0
Temp 23-3-B	1,796	0	0
Temp 23-4	98	0	0
Temp 3-11	549	0	0
Temp 31-11	784	0	0
Temp 9-5	938	0	0

Totals: 8,766 0

400 Drainage

Road Number	Culvert	Polypipe	Downspout
Total Drainage:			

Totals: No Quantities

500 Renovation	Blade Miles	Slide cy
38-7-17.0(A)	0.98	0
38-7-17.1	0.48	0
38-7-19.0(D-E)	0.25	0
38-7-21.2(A)	1.13	0
38-7-21.3	0.60	0
38-7-21.5	1.27	0
38-7-31.4	0.98	0
38-8-13.0	0.48	0
38-8-13.1	1.06	0
38-8-13.4	0.38	0
38-8-23.0	0.67	0
38-8-23.5	0.33	0
38-8-27.0	3.52	0
39-7-2.1	0.36	0

0

Continuation of Construction Quantities 39-7-3.4 0.94 0 39-7-3.6 0.95 0 39-7-9.1(A) 1.50 0 39-7-9.2 2.47 0 39-7-9.6 0.53 0

39-7-9.2	2.4/		Ü	
39-7-9.6	0.53		0	
39-8-3.0(E)	1.13		0	
- Totals:	20.01	-		
Water for Compaction 38-7-17 1			· ·	
Water Truck 3000 Gal				1 hr
Water for Compaction 38-8-13.4 Water Truck 3000 Gal				1 1
Water for Compaction 38-8-13.1		• • •		I nr
Water Truck 3000 Gal				2 hr
Water for Compaction 38-8-27.0				
Water Truck 3000 Gal				7 hr
Water for Compaction 38-8-23.0 Water Truck 3000 Gal				1 OF h
Water for Compaction 38-8-23.5				1.25 III
Water Truck 3000 Gal				1 hr
Water for Compaction $38-7-19 \text{ O(D-E)}$				
Water Truck 3000 Gal				0.5 hr
Water for Compaction 39-8-3.0(E) Water Truck 3000 Gal				3 hr
Water for Compaction 38-8-13.0				
Water Truck 3000 Gal				1 hr
Water for Compaction 38-7-17.0(A)				
Water Truck 3000 Gal				2 hr
Water for Compaction 39-7-3.4 Water Truck 3000 Gal				2 hr
Water for Compaction $38-7-21$ 2(A)				
Water Truck 3000 Gal				2.5 hr
Water for Compaction 38-7-21.5				
Water Truck 3000 Gal				3 hr
Water Truck 3000 Gal				1.5 hr
Water for Compaction 39-7-9 2				
Water Truck 3000 Gal				5 hr
Water for Compaction 39-7-9.6 Water Truck 3000 Gal				
Water Truck 3000 Gal		• • •		I hr
Water Truck 3000 Gal				3 hr
Water for Compaction 39-7-3.6				
Water Truck 3000 Gal				2 hr
Water for Compaction 39-7-2.1 Water Truck 3000 Gal				1 1
Water Truck 3000 Gal				I nr
water for compaction 30-7-31.4				0 1

Surfacing (Loose Cubic Yards)

Note: Due to slight rounding differences between total LCY vs. subtotaled LCY, Totals shown here may not be exactly as shown in the road summaries and worksheets.

1300 Geotextiles

Totals: No Quantities

1400 Slope Protection 38-8-13.4 39-7-2.1 39-7-3.6	G	radation Cla radation Cla radation Cla	-
		Totals:	45 cy
1800 Soil stabilization - acres	Mulch	Dry/with Mulch	Hydro Mulch
38-8-13.4 39-7-2.1	0.0	0.2 0.2	
39-7-3.6	0.0	1.1	
Totals:	0.0	1.5	0.0
Small Qua	ntity Fact	or of 1.51 ı	ısed
2100 RoadSide Brushing	acres		
38-7-17.0(A) - Manual Brushing	1.0		
38-7-17.1 - Manual Brushing	0.5		
38-7-19.0(D-E) - Manual Brushing $38-7-21.2(A)$ - Manual Brushing	0.2 1.1		
38-7-21.3 - Manual Brushing	0.6		
38-7-21.5 - Manual Brushing	1.2		
38-7-31.4 - Manual Brushing	1.0		
38-8-13.0 - Manual Brushing	0.5		
38-8-13.1 - Manual Brushing 38-8-13.4 - Manual Brushing	1.0 0.4		
38-8-23.0 - Manual Brushing	0.4		
38-8-23.5 - Manual Brushing	0.3		
38-8-27.0 - Manual Brushing	3.4		
39-7-2.1 - Manual Brushing	0.3		
39-7-3.4 - Manual Brushing	0.9		
39-7-3.6 - Manual Brushing 39-7-9.1(A) - Manual Brushing	0.9		
39-7-9.1(A) - Manual Brushing 39-7-9.2 - Manual Brushing	1.5 2.4		
39-7-9.6 - Manual Brushing	0.5		
39-8-3.0(E) - Manual Brushing	1.1		
Totals:	19.4		
8000 Miscellaneous Construct Turnaround Temp 13-4-C			
±			2 hr
Excavator -Small (1.5 CY)			
Construct Turnaround Temp 3-11			
			2 hr
Excavator -Small (1.5 CY)			2 hr
Construct Turnaround Temp 13-4-A Tractor: D7 with winch			2 hr
Excavator -Small (1.5 CY)			
Construct Turnaround Temp 13-4-B			
Tractor: D7 with winch			
Excavator -Small (1.5 CY)			2 hr
Construct Turnaround Temp 13-3 Tractor: D7 with winch			0 h
Excavator -Small (1.5 CY)			
1100,0001 Duali (1.3 CI)			

Continuation of Construction Quantities

Construct Turnaround Temp 23-3-A	
Tractor: D7 with winch	2 hr
Excavator -Small (1.5 CY)	2 hr
Construct Turnaround Temp 23-3-B	
Tractor: D7 with winch	
Excavator -Small (1.5 CY)	2 hr
Construct Turnaround Temp 23-4	
Tractor: D7 with winch	
Excavator -Small (1.5 CY)	2 hr
Construct Turnaround Temp 9-5	
Tractor: D7 with winch	
Excavator -Small (1.5 CY)	2 hr
Construct Turnaround Temp 31-11	
Tractor: D7 with winch	
Excavator -Small (1.5 CY)	2 hr
Construct Turnaround Temp 21-12	
Tractor: D7 with winch	
Excavator -Small (1.5 CY)	2 hr
Construct Water Dip Temp 13-3	
Tractor: D7 with winch	
Excavator -Small (1.5 CY)	4 hr
Construct Water Dip Temp 3-11	
Tractor: D7 with winch	
Excavator -Small (1.5 CY)	2 hr
Construct Water Dip Temp 31-11 Tractor: D7 with winch	O 1
Excavator -Small (1.5 CY)	z nr
Construct Water Dip Temp 13-4-B Tractor: D7 with winch	1 h
Excavator -Small (1.5 CY)	
Construct Water Dip Temp 9-5	T III
Tractor: D7 with winch	2 hr
Excavator -Small (1.5 CY)	
Construct Water Dip Temp 13-4-A	2 111
Tractor: D7 with winch	1 hr
Excavator -Small (1.5 CY)	
Construct Water Dip Temp 23-3-A	T 11T
Tractor: D7 with winch	1 hr
Excavator -Small (1.5 CY)	
Construct Water Dip Temp 21-12	L 111
Tractor: D7 with winch	3 hr
Excavator -Small (1.5 CY)	
Construct Water Dip Temp 23-3-B	J 111
Tractor: D7 with winch	2 hr
Excavator -Small (1.5 CY)	
Install BMP's at HPOC 38-8-13.0	
Crew Cab or 3/4 Ton Pickup	1 hr
General Laborer	
Install BMP's at HPOC 38-8-27.0	
Crew Cab or 3/4 Ton Pickup	2 hr
General Laborer	2 hr
Install BMP's at HPOC 38-7-21.2(A)	
Crew Cab or 3/4 Ton Pickup	2 hr
General Laborer	
Install BMP's at HPOC 39-8-3.0(E)	
Crew Cab or 3/4 Ton Pickup	1 hr
General Laborer	l hr

Continuation of Construction Quantities

Reconstruct Turnaround		
Motor Grader 14M		2 hr
Backhoe		2 hr
Reconstruct Turnaround	38-8-13.1	
Motor Grader 14M		4 hr
Backhoe	. 	4 hr
Reconstruct Turnaround	38-8-27.0	
Backhoe	. 	1 hr
Motor Grader 14M		1 hr
Reconstruct Turnaround	38-8-23.0	
Backhoe	· · · · · · · · · · · · · · · · · · ·	2 hr
Motor Grader 14M		2 hr
Reconstruct Turnaround	38-8-23.5	
		2 hr
Reconstruct Turnaround		
Backhoe		2 hr
Reconstruct Turnaround		
		2 hr
Reconstruct Turnaround		
		2 hr
Reconstruct Turnaround		
		2 hr
Reconstruct Turnaround		
		2 hr
Reconstruct Turnaround		
		2 hr
Reconstruct Turnaround		2 111
Motor Grader 14M		2 hr
Reconstruct Turnaround		2 111
		2 hr
Reconstruct Turnaround		2 111
		2 hr
Reconstruct Water Dip		2 111
	winch	2 hr
	windi	2 hr
Reconstruct Water Dips		Z 11T
	winch	11 hm
	windin	
Backiloe		TT IIL

UNITED STATES DEPARTMENT OF THE INTERIOR Tract No: TS-18-08 BUREAU OF LAND MANAGEMENT

Sale: Clean Slate TS Sale Date: 09/13/2018 Prep. By : EFreeman

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1.1) Road Use - Amortization: \$0.00/3373 MBF = \$0.00/MBF\$

Road Maintenance Obligation:	
(2.1) BLM Maintenance\$0.00(2.2) BLM Rockwear\$0.00(5.1) Purchaser Maintenance Rockwear\$2,960Total Rockwear Payable to BLM\$2,960(3.1) 3rd Party Maintenance\$2,960(3.2) 3rd Party Rockwear\$2,960(4.1) Other Maintenance Payments\$2,960Total Maintenance Fee Obligation (2.1-5.1)	\$2,375.48 83 \$2,960.83 \$0.00 \$131.10 \$0.00 \$5,467.41
Purchaser Maintenance Allowances:	
(5.2A) Move In	\$5,134.50
(5.2B) Culverts, Catch Basins, Downspouts	\$3,658.20
(5.2C) Grading, Ditching	\$8,231.73
(5.2D) Slide Removal and Slump Repair	\$0.00
(5.2E) Dust Palliative (Water)	\$6,430.90
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	\$23,455.33
(2.1-5.2G) Cost (\$5,467.41 + \$23,455.33) = \$28,922.73 Cost/MBF \$28,922.73 / 3373 MBF = \$8.57/MBF	\$8.57/MBF
(5.2H) Decommissioning	\$10,875.78
(5.2H) Cost/MBF \$10,875.78/3373 MBF =	\$3.22/MBF
(2.1-5.2H) Cost (\$5,467.41 + \$23,455.33 + \$10,875.78) = \$39,798.51	

Total Cost/MBF (Excluding Road Use) \$39,798.51/3373 MBF = \$11.80/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	Α	Surf		Maint	Vol					
and Segment	N	Type	Mi	x Fee x	MBF	=	Maint	Fee x	MBF =	Rkwear
38-7-19.0(A-C)) A	BST	1.65	0.92	228		\$346.10	0.00	228	\$0.00
38-7-27.0(A-C)) A	BST	3.03	0.92	728	\$	2,029.37	0.00	728	\$0.00
(2.1) Subtotal	L	\$2,37	5.48		(2.2)	Sul	btotal \$0	0.00		

3) Third Party Maintenance and Rockwear

		MAINTENANC	CE (3.1	.)			ROCKW	IEAR (3.	.2)	
Agrmnt	Surfa	ce Road								
Number	Type	Number	Mi >	Fee	x MBF	=	Maint	Fee x	MBF =	Rkwear
M-1166	ABC	39-7-3.6(A)	0.95)				0.60	230	\$131.10
M-1538	NAT	39-7-2.1	0.36	;				0.00	230	\$0.00
		ntenance fees kwear fees by				er:				1.10
(3.1) Sub (3.2) Sub	ototal ototal				\$0.0	0			\$131.	10

4) Other Maintenance Payments - USFS or Others Perform Maintenance

		Miles		Vol		Fee		
Agency Ro	ad Number	(Log)	х	(mbf)	х	MBF/MI	=	Cost

(4.1) Subtotal \$0.00

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)

Road No	Α		RkWea	r Vol	Total
and Segment	N	Mi	x Fee	x MBF	= RkWear
38-8-13.0	Α	0.48	0.60	708	\$203.90
38-8-13.4	Α	0.38	0.60	246	\$56.09
38-8-13.1	Α	1.06	0.00	462	\$0.00
38-8-23.5	Α	0.33	0.60	48	\$9.50
38-8-23.0	Α	0.67	0.60	179	\$71.96
38-8-27.0	Α	0.79	0.60	100	\$47.40
38-8-27.0	Α	1.04	0.60	348	\$217.15
38-8-27.0	Α	1.69	0.60	527	\$534.38
38-7-19.0(D-E)	Α	0.25	0.60	228	\$34.20
39-8-3.0(E)	Α	1.13	0.60	228	\$154.58
38-7-31.4	Α	0.98	0.00	228	\$0.00
38-7-17.1	Α	0.48	0.00	250	\$0.00
38-7-17.0(A)	Α	0.53	0.60	450	\$143.10
38-7-17.0(A)	Α	0.45	0.60	700	\$189.00
38-7-21.5	Α	1.27	0.60	264	\$201.17
38-7-21.3	Α	0.30	0.60	60	\$10.80
38-7-21.3	Α	0.30	0.60	218	\$39.24
38-7-21.2(A)	Α	0.49	0.60	264	\$77.62
38-7-21.2(A)	Α	0.64	0.60	482	\$185.09
39-7-9.6	Α	0.53	0.60	138	\$43.88
39-7-9.2	Α	0.50	0.60	178	\$53.40
39-7-9.2	Α	1.97	0.60	316	\$373.51
39-7-3.4	Α	0.94	0.00	126	\$0.00
39-7-9.1(A)	Α	0.74	0.60	286	\$126.98
39-7-9.1(A)	Α	0.76	0.60	412	\$187.87

(5.1) Subtotal \$2,960.83

Purchaser Operational Maintenance

Move In

	No	o Mc	ve Cost	:/ Dis	t Sub-
Equipment	Units x	in x	50 Mi x	Factor =	total
Motor Grader	: 1	5	\$410.00	0.63	\$1,291.50
Back Hoe:	1	5	\$305.00	0.63	\$960.75
Loader:			\$410.00	0.63	\$0.00
Water Truck:	1	5	\$95.00	0.63	\$299.25
Dump Truck:			\$89.00	0.63	\$0.00
Excavator:	1	5	\$410.00	0.63	\$1,291.50
Roller:	1	5	\$410.00	0.63	\$1,291.50

(5.2A) Total \$5,134.50

Culvert Maintenance - Including Catch basins and Downpipes

$$\frac{\text{Miles x Cost/Mi}}{10} = \frac{\text{Subtotal}}{\$365.82}$$

(5.2B) Total \$3,658.20

Grading (Includes Ditches and Shoulders)

(5.2C) Total \$8,231.73

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

Type	No Slides	Но	urs	Equip	
Equipment	/Slumps	х	Each	x Cost	= Subtotal
Grader:	0		0	\$140.96	\$0.00
Loader:	0		0	\$101.17	\$0.00
Backhoe:	0		0	\$85.84	\$0.00

(5.2D) Total \$0.00

Dust Palliative (Water)

Spreading Hours

	No	Freq	Truck			
	Miles	/ MPH	= Hours	x Days	x /Day	= Hours
	1.20	5	0.2	8	1	2
Load & Haul =			20.0	4	1	80
			Total Hours	=		82

Truck Cost: $$78.81/Hr. \times 81.6 \text{ Hours} = $6,430.90$

(5.2E) Total \$6,430.90

Surface Repair (Aggregate)

Production Cost:	0.0 CY x \$0.00/CY	=	\$0.00
Haul to Stockpile:	$0.0 \text{ CY x } ((\$1.75/\text{CY x} \ 0.00 \text{ Mi}) + \$0.58)$	=	\$0.00
Stockpile:	0.0 CY x \$1.07/CY	=	\$0.00
Load from Stockpile:	0.0 CY x \$1.05/CY	=	\$0.00
Haul from Stockpile:	$0.0 \text{ CY x } ((\$1.75/\text{CY x} \ 0.00 \text{ Mi}) + \$0.58)$	=	\$0.00
Process with Grader:	0.0 CY x \$0.88/CY	=	\$0.00
Compaction:	0.0 CY x \$1.08/CY	=	\$0.00

(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

(5.2G) Total \$0.00

Decommissioning

Clearing

	Road	Base	A	djustment		Clearing		
	Number	Cost	x	Factor	x	Acres	=	Total
Temp	3-11	\$308.57	х	1.52	x	0.47	=	\$220.44
Temp	13-3	\$308.57	x	1.52	x	1.57	=	\$736.37
Temp	13-4-A	\$308.57	x	1.52	x	0.25	=	\$117.26
Temp	13-4-B	\$308.57	x	1.52	x	0.24	=	\$112.57
Temp	13-4-C	\$308.57	x	1.52	x	0.09	=	\$42.21
Temp	23-3-A	\$308.57	x	1.52	x	0.45	=	\$211.06
Temp	23-3-B	\$308.57	x	1.52	x	0.67	=	\$314.25
Temp	23-4	\$308.57	x	1.52	x	0.12	=	\$56.28
Temp	31-11	\$308.57	x	1.52	x	0.67	=	\$314.25
Temp	21-12	\$308.57	x	1.52	x	0.62	=	\$290.80
Temp	9-5	\$308.57	x	1.52	х	0.48	=	\$225.13

(Clearing) Total \$2,640.62

Ripping

Road	Number	Ripping Cost	x	# of Sta's	= Total
Temp	3-11	\$30.34	х	8.2	= \$248.79
Temp	13-3	\$30.34	x	23.7	= \$719.06
Temp	13-4-A	\$30.34	x	4.25	= \$128.95
Temp	13-4-B	\$30.34	x	3.35	= \$101.64
Temp	13-4-C	\$30.34	x	1.5	= \$45.51
Temp	23-3-A	\$30.34	x	7.9	= \$239.69
Temp	23-3-B	\$30.34	x	7.3	= \$221.48
Temp	23-4	\$30.34	x	2	= \$60.68
Temp	31-11	\$30.34	x	11.7	= \$354.98
Temp	21-12	\$30.34	x	10.8	= \$327.67
Temp	9-5	\$30.34	х	8.3	= \$251.82

(Ripping) Total \$2,700.26

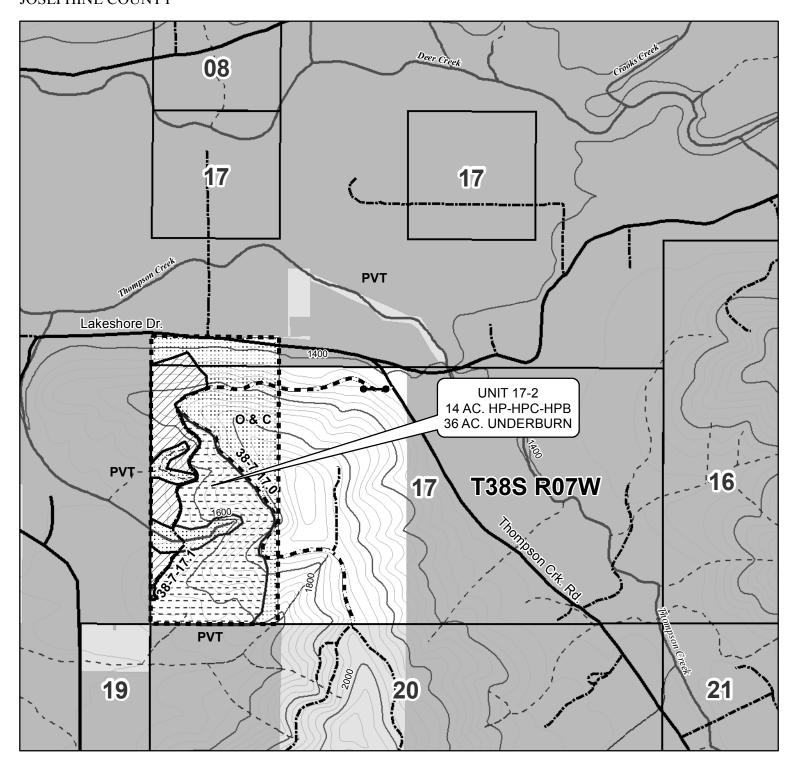
Other Costs

Road	Cı	ubic Yds		Qty		Qty		
Number	Pullba	ack Materi	al	Waterbars	Ea:	rthen Barriers	=	Total
Temp 3-1	1 (0:	x\$1.77)	+	(6x\$55.35)	+	(1x\$166.04)	=	\$498.14
Temp 13-	3 (0:	x\$1.77)	+	(20x\$55.35)	+	(0x\$166.04)	=	\$1,107.00
Temp 13-	4-A (0:	x\$1.77)	+	(3x\$55.35)	+	(1x\$166.04)	=	\$332.09
Temp 13-	4-B (0:	x\$1.77)	+	(2x\$55.35)	+	(1x\$166.04)	=	\$276.74
Temp 13-	4-C (0:	x\$1.77)	+	(2x\$55.35)	+	(1x\$166.04)	=	\$276.74
Temp 23-	3-A (0:	x\$1.77)	+	(6x\$55.35)	+	(1x\$166.04)	=	\$498.14
Temp 23-	3-B (0:	x\$1.77)	+	(5x\$55.35)	+	(1x\$166.04)	=	\$442.79
Temp 23-	4 (0:	x\$1.77)	+	(2x\$55.35)	+	(1x\$166.04)	=	\$276.74
Temp 31-	11 (0:	x\$1.77)	+	(10x\$55.35)	+	(1x\$166.04)	=	\$719.54
Temp 21-	12 (0:	x\$1.77)	+	(8x\$55.35)	+	(1x\$166.04)	=	\$608.84
Temp 9-5	(0:	x\$1.77)	+	(6x\$55.35)	+	(1x\$166.04)	=	\$498.14

(Other Cost) Total <u>\$5,534.90</u>

U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 7 W., SEC.17 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 1 OF 8





1 inch = 1,000 feet



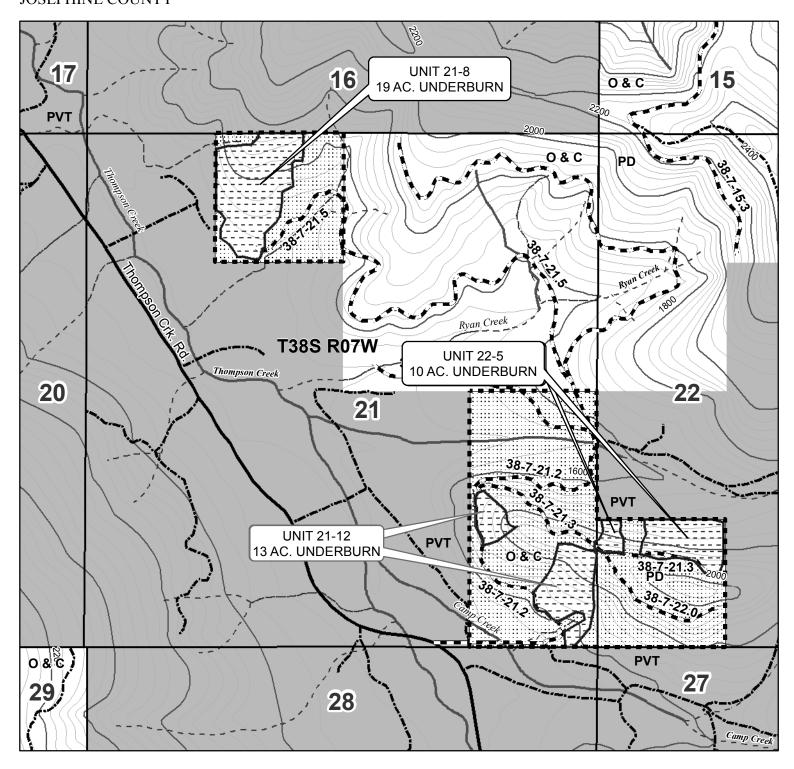
United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200

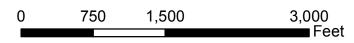


Map created by SDT 6/12/18



TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 2 OF 8





1 inch = 1,000 feet



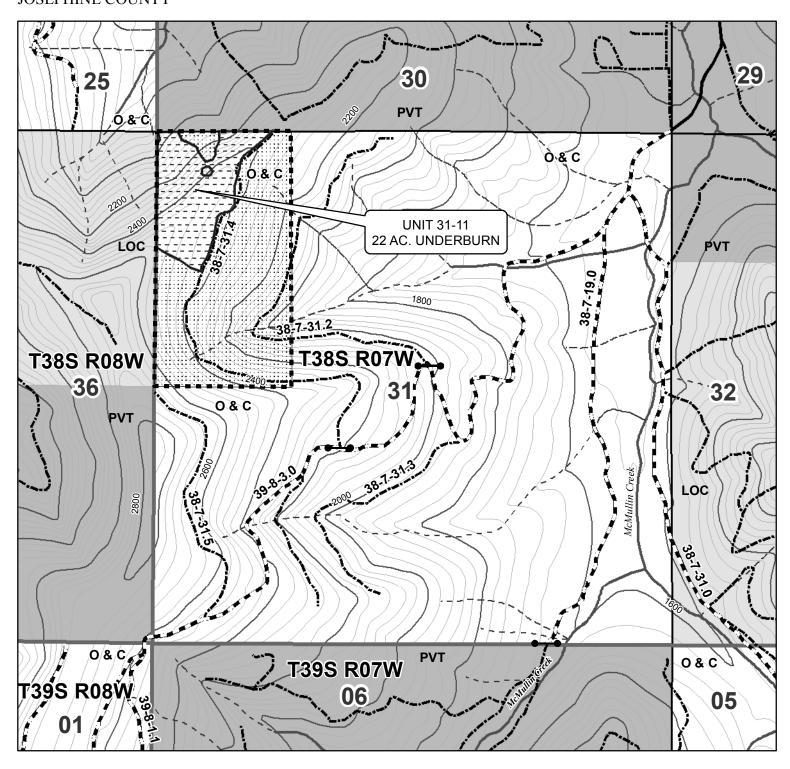
United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200

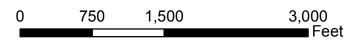


Map created by SDT 7/10/18



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 7 W., SEC.31 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 3 OF 8





1 inch = 1,000 feet

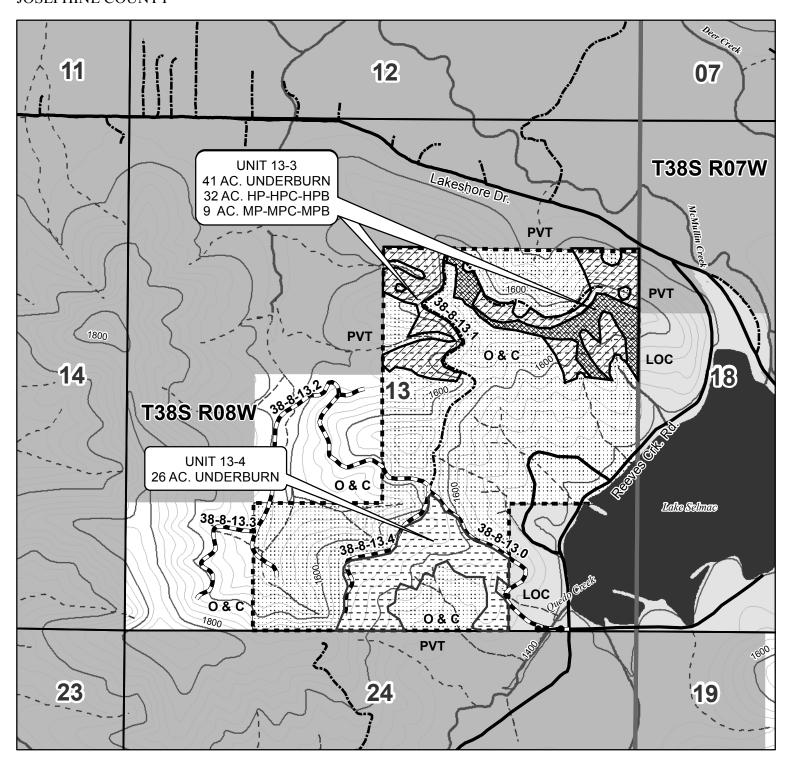
40 FOOT CONTOUR INTERVAL

Map created by SDT 7/10/18

United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 8 W., SEC.13 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 4 OF 8

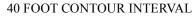




1 inch = 1,000 feet



United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200

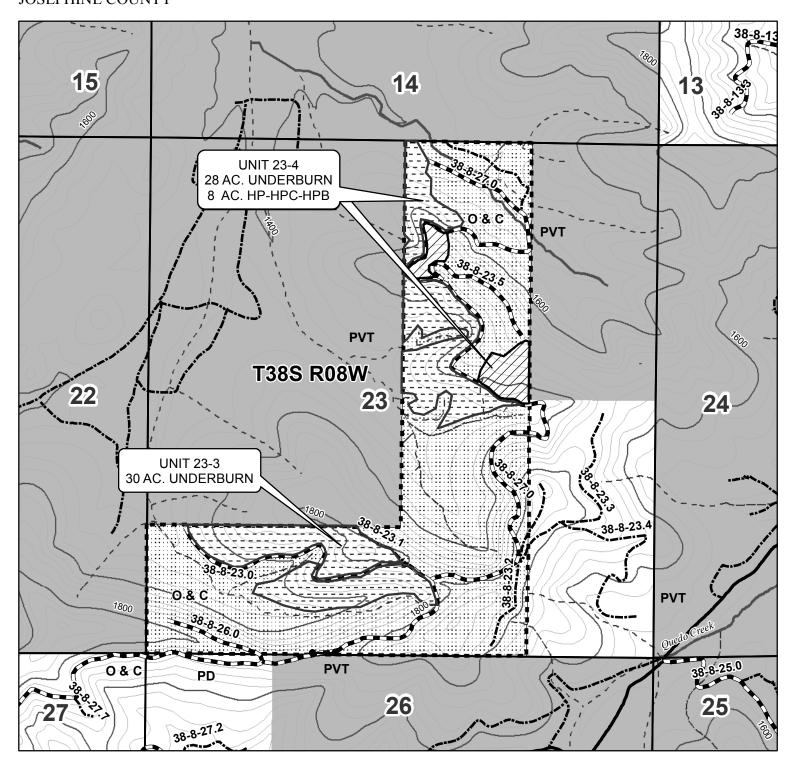


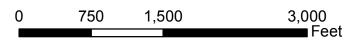
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U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 8 W., SEC.23 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT S
PAGE 5 OF 8





1 inch = 1,000 feet



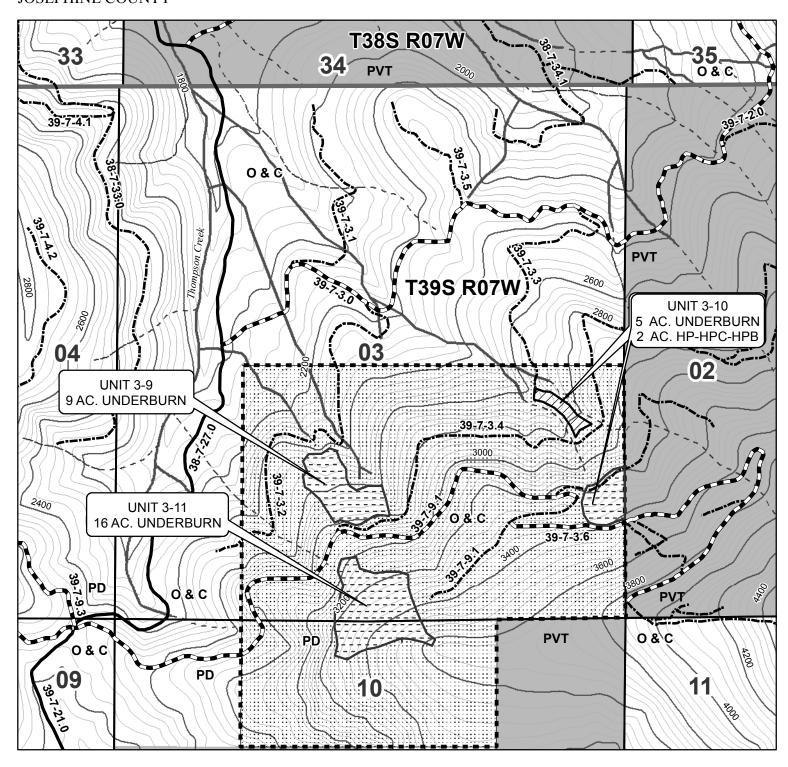
United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200



Map created by SDT 7/10/18



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 39 S., R. 7 W., SEC. 3 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 6 OF 8





1 inch = 1,000 feet



United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200

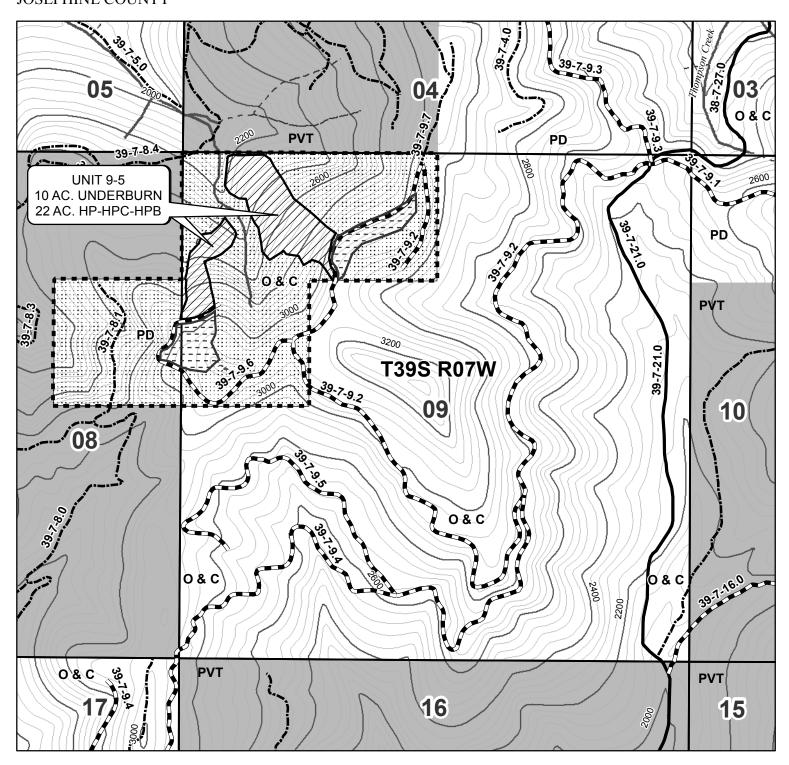


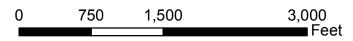
Map created by SDT 7/10/18



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 39 S., R. 7 W., SEC. 9 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 7 OF 8





1 inch = 1,000 feet



United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200



Map created by SDT 7/10/18



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-18-08 T. 38 S., R. 7 W., SEC.17, 21, 22, 31 WILL. MER. T. 38 S., R. 8 W., SEC.13, 23 WILL. MER. T. 39 S., R. 7 W., SEC. 3, 8, 9, 10 WILL. MER. CLEAN SLATE TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 8 OF 8

Legend

Clean State Fuels Treatments	Streams
Hand Pile- Hand Pile Cover- Hand Pile Burn	Intermittent
Machine Pile - Machine Pile Cover - Machine Pile Burn	Perennial
Underburning	Waterbody
Clean Slate Reserve Area Contract Area Boundary	Lake/Pond 40 Foot Index Contours —— Index
Roads	Intermediate
Paved Road Natural Surface Road	Township and Range Sections
•—• Gate	PROPERTY STATUS
	O & C BLM O & C Lands PD BLM Public Domain Lands PVT Private Individual or Company LOC Local Government

SUMMARY

НР-НРС-НРВ	HAND PILE-HAND PILE COVER-HAND PILE BURN PORTIONS OF UNITS (UNIT 3-10, 9-5, 13-3, 17-2, 23-4)	78.50 ACRES
MP-MPC-MPB	MACHINE PILE-MACHINE PILE COVER-MACHINE PILE BURN PORTION OF UNIT (UNIT 13-3)	9 ACRES
UB	UNDERBURN (UNITS 3-9, 3-10, 3-11, 9-5, 13-3, 13-4, 17-2, 21-8, 21-12, 22-5, 23-3, 23-4, 3-11)	264.50 A CRES
	TOTAL SLASH DISPOSAL TREATMENT AREA	352 ACRES
	RESERVE A REA	982.04 ACRES
	TOTAL CONTRACT AREA	1293.04 ACRES



Form 5440-9 (December 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Х	TIMBER*
DEPOSIT AND BID FOR		VEGETATIVE RESOURCE
		(Other Than Timber)

Name of Bidder	
Tract Number	
ORM07-TS-2019.0008	
Sale Name	
Clean Slate	
Sale Notice (dated)	
November 29, 2018	
BLM District	
Medford	

LUMP SUM SALE

	Sealed Bid for Sealed Bid Sale				х	Writt	en Bid	for O	al Auction S	ale				
In response to the above dated Sale Notice, the required depositimber/vegetative resource on the tract specified above.				red deposit	and	bid aı	re hereb	y sul	omitted for the	he pur	chase of design	gnated		
Requi	red bid deposite	ed is \$ 31,	,700.00	and is e	enclosed	l in the for	m of		cash		money order	r 🗆	bank draft	
cashie	r's check	□ certi	fied chec	ek	□ bio	l bond of c	orpor	ate su	irety on	appr	oved list of	the Un	ited States Tr	easury
□ guaranteed remittance approved by the authorized officer.														

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per species will be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE – LUMP SUM SALE NOTE: Bidders should carefully check computations in completing the Bid Schedule

		ORAL BID MADE				
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	3,240	x	=	х	=
sugar pine	MBF	116	X\$42.00	=\$4,872.00	Х	=
ponderosa pine	MBF	15	X\$38.40	=\$576.00	Х	=
white fir	MBF	1	X\$37.20	=\$37.20	Х	=
incense-cedar	MBF	1	X\$68.60	=\$68.60	Х	=
Total		3,373	х	=	х	=
			х	=	Х	=
			х	=	X	=
			х	=	Х	=
			Х	=	Х	=
			X	=	Х	=
			Х	=	X	=
			х	=	Х	=
			Х	=	Х	=
			х	=	х	=
			Х	=	х	=
		TOTAL PUR	RCHASE PRICE			

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on (date)						
(Check appropriate box, sign in	ink, and complete the following)					
Signature, if firm is individually owned	Name of firm (type or print)					
Signatures, if firm is a partnership or L.L.C.	Business address, include zip code (type or print)					
Corporation organized under the state laws of Signature of Authorized Corporate Signing Officer	(To be completed following oral bidding) I HEREBY confirm the above oral bid By (signature)					
Title	Date					
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM. Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description					

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

PURPOSE: To qualify an oral auction bidder, and then if successful, to bind bidder to certain contract conditions.

ROUTINE USE: To determine that an individual is qualified to participate in oral auction bidding, and, as surety that bidder will fulfill contract requirements.

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

INSTRUCTIONS TO BIDDERS

- 1. AUTHORITY Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of Luly 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.
- 2. QUALIFICATIONS OF BIDDERS A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.
- 3. INSPECTION OF TIMBER/VEGETATIVE RESOURCES Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.
- 4. DISCLAIMER OF WARRANTY Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.
- 5. *BIDS* Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued *Timber/Vegetative Resource Sale Notice*.
- (a) Sealed Bid Sales Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside Bid for Timber/Vegetative Resource, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.
- (b) Auction Sales Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.
- (c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.
- (d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.
- 6. *BID FORMS* All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.
- (a) Lump Sum Sales Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.
- (b) Timber Scale Sales Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut

- and removed prior to expiration of time for cutting and removal as specified in contract.*
- 7. BID DEPOSIT All bidders must make a deposit of not less than the amount specified in the Timber/Vegetative Resource Notice. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department*, or any approved guaranteed remittance approved by the Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.
- 8. AWARD OF CONTRACT Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.
- 9. TIMBER/VEGETATIVE RESOURCE SALE CONTRACT To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. PERFORMANCE BOND -

- (a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) any guaranteed remittance approved by the Authorized Officer.
- (b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.*
- 11. PAYMENT BOND If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.*
- 12. PAYMENT OF PURCHASE PRICE For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.
- 13. LIQUIDATED DAMAGES Within thirty (30) days from receipt of *Timber/Vegetative Resource Sale Contract*, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.
- 14. *NINETY-DAY SALES* If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

^{*}Applies to Timber Only

- 15. UNAUTHORIZED USE OF GOVERNMENT PROPERTY A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.
- 16. EQUAL OPPORTUNITY CLAUSE This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity Compliance Report Certification will be completed by prospective contractors. Certification may be obtained from District Manager.
- 17. LOG EXPORT All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except the purpose of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western
- red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to "unprocessed timber". Special reporting, branding and painting of logs may be included in contract provisions.*
- 18. DETAILED INFORMATION Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.