

Washington DNR Timber Sales Program

The documents for Dreamer VRH timber sale have been changed as follows:

Documents amended:

Brief Description	DATE	Initials
<p><u>Notice of Sale</u> Roads 48.72 stations of abandonment. 29.03 stations of road abandonment. 19.69 stations of road abandonment, if built.</p> <p>Rock hauling on the DV-130 Road is restricted from October 1st to April 30th. Hauling on the DV-130 Road, stationing 0+00 to 12+37, is restricted from October 1st to May 30th.</p> <p>Remarks: Purchaser shall keep gates closed and locked except during hauling. Purchaser shall keep gates closed and locked at all times.</p>	10/15/2020	MR
<p><u>Contract:</u> G-380 Road Easement and Road Use Permits Requirements Road Easement between the State and Synergy Resources LLC. #55-09584 Add: Easement Exchange between the State, Synergy Resources, LLC and Hambleton Bros. Lumber Company, dated June 30, 2017.</p>	10/15/2020	MR
<p>Clause H-012 Leave Tree Damage Definitions Add: Clause H-013 Reserve Tree Damage Definition</p>	10/15/2020	MR
<p>Add: Clause H-131 Hauling Restriction</p>		MR
<p>Clause H-140: Special Harvest Requirements Delete: Ground based yarding equipment will not be permitted on slopes over 40%.</p>	10/15/2020	MR
<p>Clause H-141 Additional Harvest Requirements Delete: Any and all snags cut because of safety concerns cannot be removed and must remain where they were found</p>	10/15/2020	MR
<p>Clause C-040 Road Plan: Add date, 6/17/2020.</p>	10/15/2020	MR
<p>Add Clause D-041: Reserve Tree Damage Definition</p>	10/15/2020	MR



TIMBER NOTICE OF SALE

SALE NAME: DREAMER VRH

AGREEMENT NO: 30-100846

AUCTION: November 19, 2020 starting at 10:00 a.m., COUNTY: Clark Pacific Cascade Region Office, Castle Rock, WA

SALE LOCATION: Sale located approximately 20 miles east of Battleground

PRODUCTS SOLD AND SALE AREA:

All timber, except trees marked with blue paint, trees bound by yellow "Leave Tree Area" tags, snags, pre-existing stumps, western redcedar and all downed timber greater than 24 inches in diameter bound by: white "Timber Sale Boundary" tags, reprod, pink flagging, white carsonite posts along private property and the L-1700 in Unit 1; white "Timber Sale Boundary" tags, reprod, pink flagging and the L-1720 in Unit 2; white "Timber Sale Boundary" tags, pink flagging, Dole Valley Road and the L-1700 in Unit 3; white "Timber Sale Boundary" tags, pink flagging and white carsonite posts along private property in Unit 4; white "Timber Sale Boundary" tags, pink flagging and white carsonite posts along private property in Unit 5;

All forest products above located on part(s) of Sections 28, 29 and 32 all in Township 4 North, Range 4 East, W.M., containing 107 acres, more or less

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: PwC-SFIFM-513)

ESTIMATED SALE VOLUMES AND QUALITY:

Table with columns: Species, Avg DBH, Ring Count, Total MBF, and MBF by Grade (1P, 2P, 3P, SM, 1S, 2S, 3S, 4S, UT). Rows include Douglas fir, Red alder, Maple, and Sale Total.

MINIMUM BID: \$1,454,000.00 BID METHOD: Sealed Bids

PERFORMANCE SECURITY: \$100,000.00 SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2022 ALLOCATION: Export Restricted

BID DEPOSIT: \$145,400.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Shovel, and Ground based equipment. Shovel and ground based equipment. Ground based yarding equipment shall only operate during dry soil conditions. Yarding will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator.

ROADS: 4.78 stations of required construction. 32.20 stations of optional construction. 9.43 stations of optional reconstruction. 51.70 stations of required prehaul maintenance. 27.00 stations of optional prehaul maintenance. 29.03 stations of abandonment. Road construction will not be permitted from October 1 to April 30 unless authorized in writing



TIMBER NOTICE OF SALE

by the Contract Administrator. 19.69 stations of road abandonment if built. 34.84 stations of required post-haul maintenance. Rock used in accordance may be obtained from the L-1100 Pit located in Section 28, T04 North, R04 East W.M. Rock for this sale may be obtained from any commercial rock source at the Purchaser's expense. Rock Sources will be subject to written approval by the Contract Administrator before their use. The 1 1/4 - INCH MINUS CRUSHED rock used in accordance with the quantities on the rock list shall be obtained from Mountain Top Quarry in Yacolt. See road plan for details. On the DV-130, stations 0+00 to 12+37, and the L-1300 station 0+00 to 22+47 road construction equipment is not allowed on weekends or state recognized holidays, unless authorized in writing by the Contract Administrator.

ACREAGE DETERMINATION

CRUISE METHOD: The sale acres were determined by GPS delineation. Cruise was completed using variable plot cruise methods.

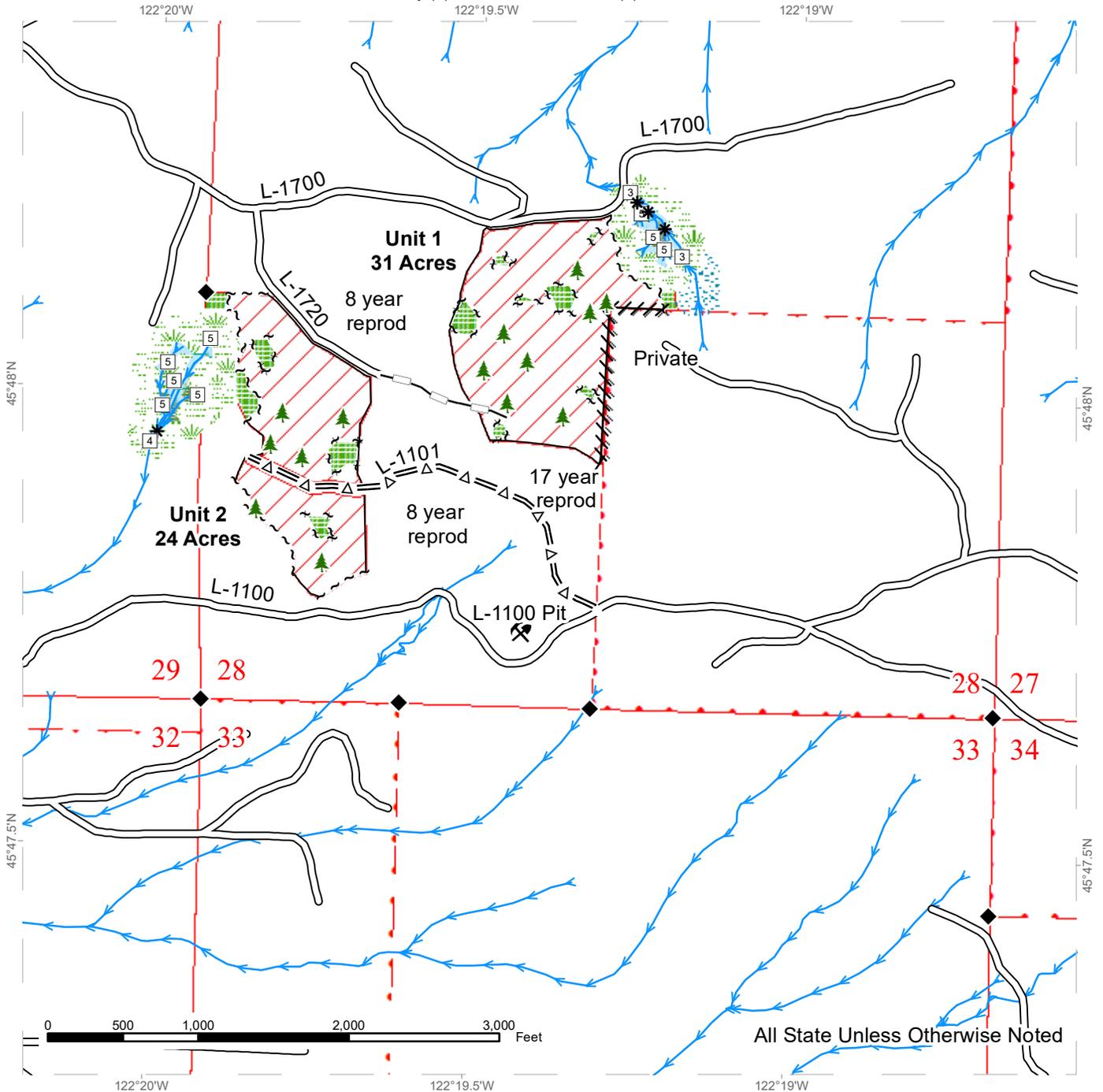
FEES: Purchaser shall pay the fee of \$20,000.00 to the Andrew Muonio and Greg EK for a Road Use Permit. The fee is due within 30 days of day of sale. \$54,553.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: This sale contains an estimated 391 MBF of high quality DF 2 saw, 107 MBF of high quality DF 3 saw, derived from the cruise. See cruise for details. Purchaser shall abate dust on the DV-130 Road. Purchaser is responsible for hazard abatement adjacent to Dole Valley Road. Hauling on the DV-130 road, from station 0+00 to 12+37 is restricted from October 1st to May 31th. Purchaser shall keep gates closed and locked at all times. For gates located on the DV-130, L-1300 and L-1700 roads. PCP 1-1 gate keys may be obtained from the Pacific Cascade Region office.

TIMBER SALE MAP

SALE NAME: DREAMER VRH
AGREEMENT #: 30-100846
TOWNSHIP(S): T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 840-1506



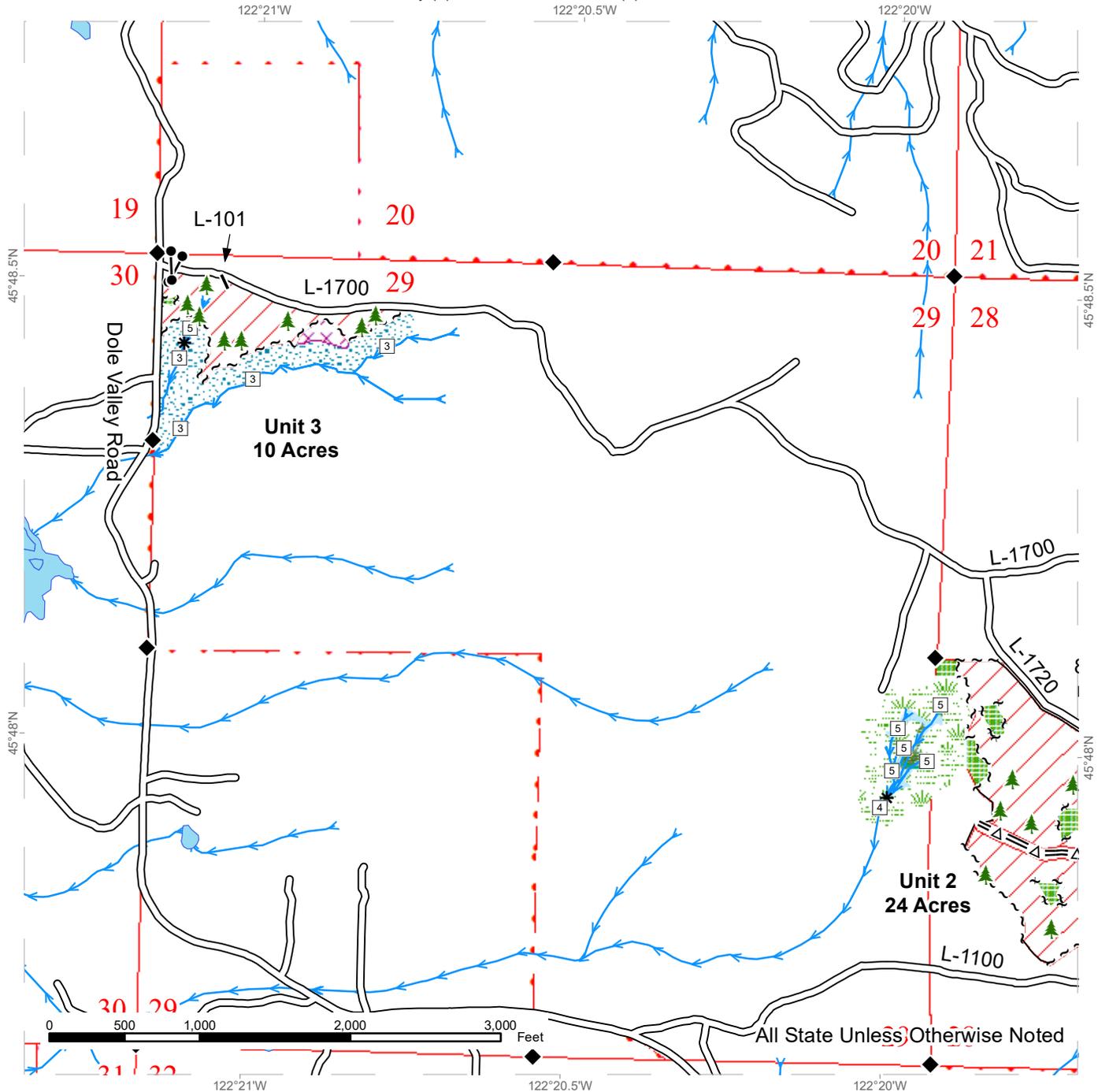
All State Unless Otherwise Noted

Leave Tree Area	Sale Boundary Tags	Streams
Riparian Mgt Zone	Leave Tree Tags	Stream Type
Forested Wetland	Flag Line	Stream Type Break
Wetland Mgt Zone	Timber Type Change	Survey Monument
Existing Roads	Optional Pre-Haul Maintenance	Leave Tree Area <1/4-acre
Optional Pre-Haul Maintenance	Optional Reconstruction	Rock Pit

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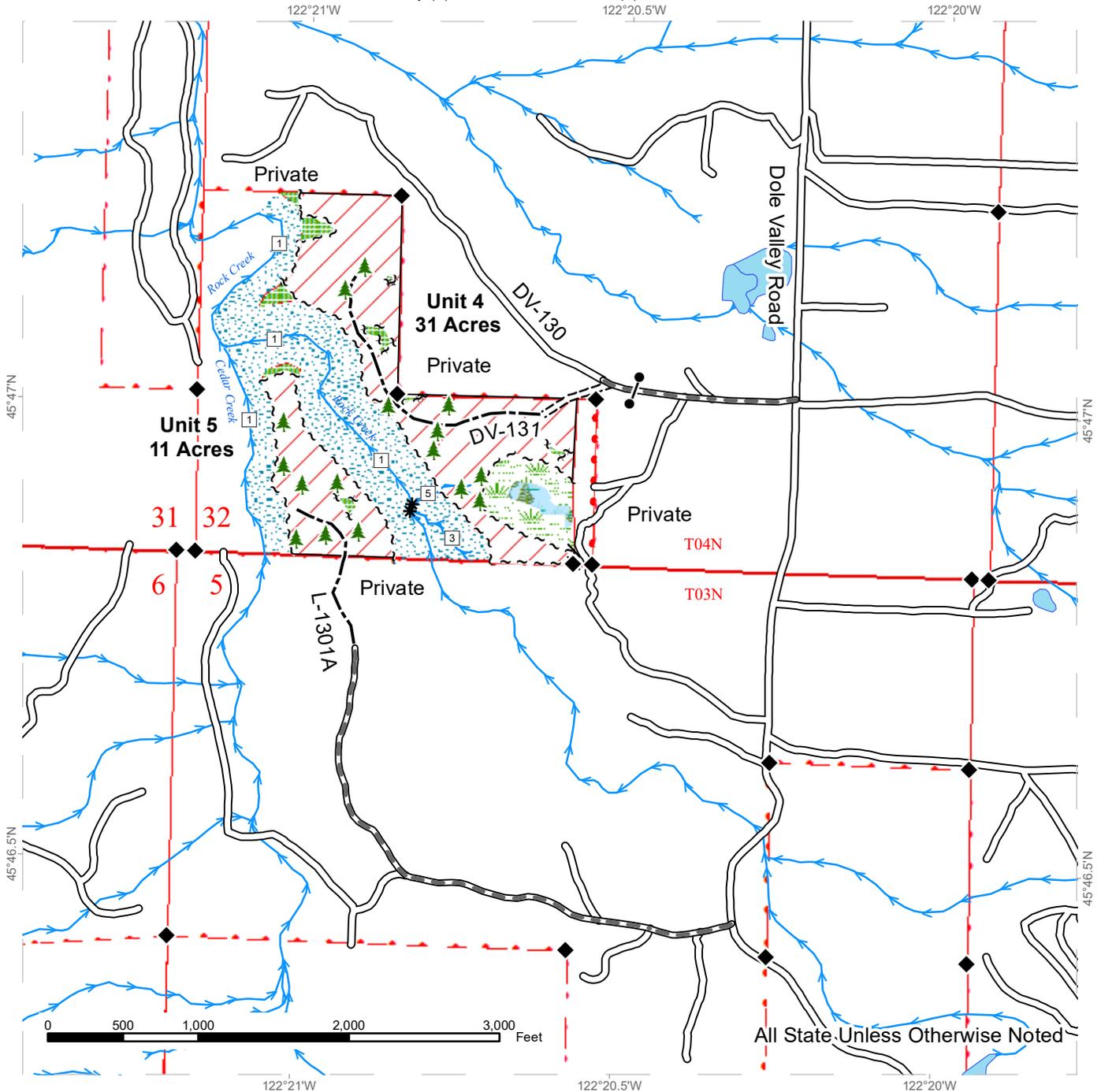
	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Leave Tree Tags		Stream Type
	Forested Wetland		Timber Type Change		Stream Type Break
	Wetland Mgt Zone				Survey Monument
	Potentially Unstable Slopes				Gate (<<Lock Type>>)
	Existing Roads				Leave Tree Area <1/4-acre
	Optional Pre-Haul Maintenance				
	Optional Construction				



TIMBER SALE MAP

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AGREEMENT #: 30-100846
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REGION: Pacific Cascade Region
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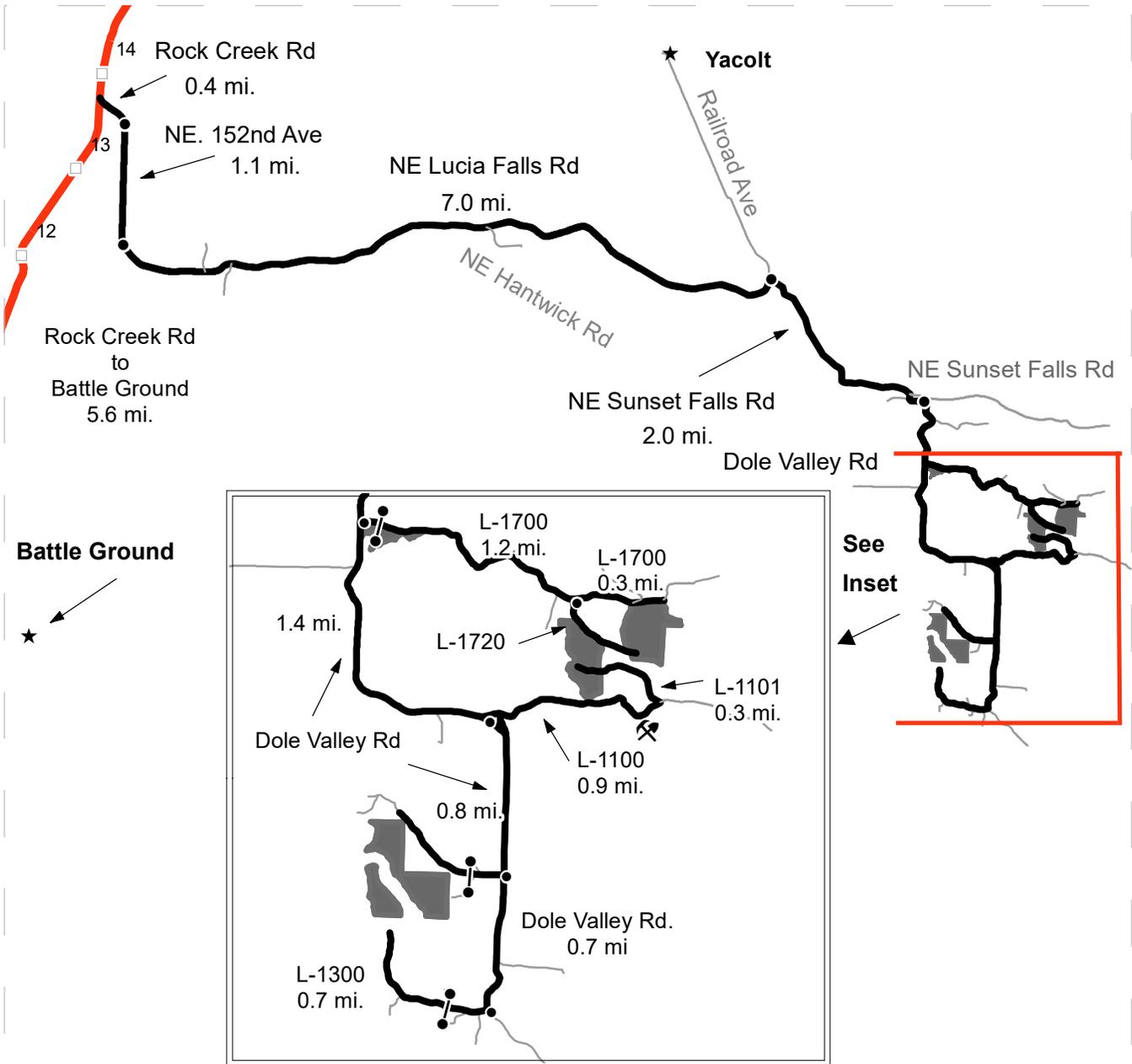
	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Leave Tree Tags		Stream Type
	Forested Wetland		Property Line		Stream Type Break
	Wetland Mgt Zone		Flag Line		Survey Monument
	Existing Roads		Timber Type Change		Leave Tree Area <1/4-acre
	Required Pre-Haul Maintenance				
	Required Construction				
	Optional Construction				



DRIVING MAP

SALE NAME: DREAMER VRH
AGREEMENT#: None
TOWNSHIP(S): T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 840-1506



Map may not be to scale

- Timber Sale Unit
- Haul Route
- Other Road
- Milepost Markers

DRIVING DIRECTIONS:

From State Route 503 (M.P. 13.5) turn east onto Rock Creek Road for 0.4 miles. Continue southeast on NE 152nd Ave for 1.1 miles to NE Lucia Falls Road. Travel east on NE Lucia Falls Road for approximately 7.0 miles. Turn east onto NE Sunset Falls Road and travel 2 miles. Turn south onto Dole Valley Road and travel 0.6 miles. Turn east on the L-1700 to access Unit 3. Travel another 1.2 miles. Turn south on to L-1720 to access Unit 2. From the L-1700/1720 junction continue 0.3 miles east on the L-1700 to Unit 1. From Dole Valley Road/L-1700 junction travel south another 2.2 miles. Turn west onto a unnamed road through a private combination gate to access Unit 4. Continue another 0.7 miles down Dole Valley Road. Turn west onto the L-1300. Through another private combination gate travel 0.7 miles to Unit 5.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

**BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS**

Export Restricted Lump Sum AGREEMENT NO. 30-0100846

SALE NAME: DREAMER VRH

**THE STATE OF WASHINGTON DEPARTMENT OF NATURAL
RESOURCES, HEREINAFTER ACTING SOLELY, IN ITS PROPRIETARY
CAPACITY, STATE, AND PURCHASER, AGREE AS FOLLOWS:**

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

Bill of Sale and Contract for Forest Products: Contract between the Purchaser and the State, which sets forth the procedures and obligations of the Purchaser in exchange for the right to remove forest products from the sale area. The Bill of Sale and Contract for Forest Products may include a Road Plan for any road construction or reconstruction, where applicable.

Contract Administrator: Region Manager's designee responsible for assuring that the contractual obligations of the Purchaser are met.

Forest Product: Any material derived from the forest for commercial use.

Purchaser: The company or individual that has entered into a Bill of Sale and Contract for Forest Products with the State for the right to harvest and remove forest products from the timber sale area.

Road Construction: Includes building new and maintaining existing forest roads and associated work that may be optional or required as described in the Road Plan.

State: The Washington State Department of Natural Resources, landowner and seller of Forest Products from the timber sale area. The State is represented by the Region Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the Region Manager or the designated Contract Administrator.

Subcontractor: Individual or company employed by the Purchaser to perform a portion or all of the services required by The Bill of Sale and Contract for Forest Products. The Purchaser is responsible for independently negotiating, procuring and paying for all subcontracted services rendered.

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on November 19, 2020 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except trees marked with blue paint, trees bound by yellow "Leave Tree Area" tags, snags, pre-existing stumps, western redcedar and all downed timber greater than 24 inches in diameter bound by: white "Timber Sale Boundary" tags, reprod, pink flagging, white carsonite posts along private property and the L-1700 in Unit 1; white "Timber Sale Boundary" tags, reprod, pink flagging and the L-1720 in Unit 2; white "Timber Sale Boundary" tags, pink flagging, Dole Valley Road and the L-1700 in Unit 3; white "Timber Sale Boundary" tags, pink flagging and white carsonite posts along private property in Unit 4; white "Timber Sale Boundary" tags, pink flagging and white carsonite posts along private property in Unit 5;

All forest products above located on approximately 107 acres on part(s) of Sections 28, 29, and 32 all in Township 4 North, Range 4 East W.M. in Clark County(s) as designated on the sale area and as shown on the attached timber sale map.

All forest products described above from the bole of the tree that meet or exceed 2 inches diameter inside bark on the small end are eligible for removal. Above ground components of a tree that remain as by-products after the manufacture of logs, including but not limited to tree tops, branches, limbs, needles, leaves, stumps, are not eligible for removal under the terms of this contract.

Forest products purchased under a contract that is designated as export restricted shall not be exported until processed. Forest products purchased under a contract that is designated as exportable may be exported prior to processing.

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the

timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2022.

G-040 Contract Term Adjustment - No Payment

Purchaser may request an adjustment in the contract term. A claim must be submitted in writing and received by the State within 30 days after the start of interruption or delay. The claim must also indicate the actual or anticipated length of interruption or delay. The State may grant an adjustment without charge only if the cause for contract term adjustment is beyond Purchaser's control. The cause must be one of the following and the adjustment may be granted only if operations or planned operations under this contract are actually interrupted or delayed:

- a. Road and bridge failures which deny access.
- b. Access road closures imposed by road owner.
- c. Excessive suspensions as provided in clause G-220.
- d. Regulatory actions not arising from Purchaser's failure to comply with this contract which will prevent timber harvest for a period less than 6 months.

G-051 Contract Term Extension - Payment

Extensions of this contract term may be granted only if, in the judgment of the State, Purchaser is acting in good faith and is endeavoring to remove the forest products conveyed. The term of this contract may be extended for a reasonable time by the State if all of the following conditions are satisfied:

- a. A written request for extension of the contract term must be received prior to the expiration date of the contract.
- b. Completion of all required roads and compliance with all contract and regulatory requirements.
- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the total contract price.

The payments shall not include the initial deposit which shall be held according to the provisions of RCW 79.15.100.

- d. Payment of an amount based on 12 percent interest per annum on the unpaid portion of the total contract price.

All payments, except the initial deposit, will be deducted from the total contract price to determine the unpaid portion of the contract.

- e. Payment of \$762.00 per acre per annum for the acres on which an operating release has not been issued for all units.
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

Whenever the State determines that a survey for sensitive, threatened, or endangered species is prudent, or when Purchaser determines a survey is prudent and the State agrees, Purchaser shall perform such surveys at Purchaser's expense and to the standards required by the State. The survey information shall be supplied to the State.

G-060 Exclusion of Warranties

The PARTIES AGREE that the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE and ALL OTHER WARRANTIES EXPRESSED OR IMPLIED ARE EXCLUDED from this transaction and shall not apply to the goods sold. For example, THE FOLLOWING SPECIFIC MATTERS ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.

- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-062 Habitat Conservation Plan

The State has entered into a Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (the Services) to address state trust land management issues relating to compliance with the Federal Endangered Species Act. The activities to be carried out under this contract are located within the State's HCP area and are subject to the terms and conditions of the HCP, and the Services' Incidental Take Permit Nos. TE812521-1 and 1168 (collectively referred to as ITP), or as amended hereafter by the Services. The ITP authorizes the incidental take of certain federally listed threatened and endangered species, as specified in the ITP conditions. All HCP materials, including the ITP, are available for review at the State's Regional Offices and the administrative headquarters in Olympia, Washington.

By signing this contract, Purchaser agrees to comply with the terms and conditions of the ITP, and the HCP, which shall become terms of this contract. The State agrees to authorize the lawful activities of the Purchaser carried out pursuant to this contract, PROVIDED the Purchaser remains in compliance with the terms and conditions of both the HCP and ITP. The requirements set forth in this contract are intended to comply with the terms and conditions of the HCP and ITP. Accordingly, non-compliance with the terms and conditions of the HCP and ITP will render the authorization provided in this paragraph void, be deemed a breach of the contract and may subject Purchaser to liability for violation of the Endangered Species Act.

Any modifications to the contract shall be proposed in writing by Purchaser, shall continue to meet the terms and conditions of the HCP and ITP, and shall require the prior written approval of the Region Manager before taking effect.

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts,

or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.

- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.
- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

Purchaser is responsible for obtaining any permits not already obtained by the State that relate to Purchaser's operation. Forest Practice Application / Hydraulic Project Approval permits obtained by the State shall be transferred to Purchaser. Purchaser is responsible for all permits, amendments and renewals.

G-065 Regulatory Disclaimer

The State disclaims any responsibility for, or liability relating to, regulatory actions by any government agency, including actions pursuant to the Forest Practices Act, Ch. 76.09 RCW that may affect the operability of the timber sale.

G-066 Governmental Regulatory Actions

a. Risk

Purchaser shall be responsible for any increased operational costs arising from any applicable foreign or domestic governmental regulation or order that does

not cause contract performance to become commercially impracticable or that does not substantially frustrate the purpose of the contract. If impracticability or frustration results from Purchaser's failure to comply with this contract, Purchaser shall remain responsible for payment of the total contract price notwithstanding the impracticability or frustration.

b. Sale Area

When portions of the sale area become subject to a foreign or domestic governmental regulation or order that will likely prevent timber harvest for a period that will exceed the expiration date of this contract, and Purchaser has complied with this contract, the following shall apply:

- i. RCW 79.15.140 shall govern all adjustments to the contract area.

c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall cause the timber sale area subject to governmental regulation or order to be measured. The State shall calculate the percentage of the total sale area subject to the governmental regulation or order. The State shall reduce the total contract price by that calculated percentage. However, variations in species, value, costs, or other items pertaining to the affected sale area will be analyzed and included in the adjustment if deemed appropriate by the State. The State will further reduce the total contract price by the reasonable cost of unamortized roads Purchaser constructed but was unable to fully use for removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

G-070 Limitation on Damage

In the event of a breach of any provision of this contract by the State, the exclusive remedy available to Purchaser will be limited to a return of the initial deposit, unapplied payments, and credit for unamortized improvements made by Purchaser. The State shall not be liable for any damages, whether direct, incidental or consequential.

G-080 Scope of State Advice

No advice by any agent, employee, or representative of the State regarding the method or manner of performing shall constitute a representation or warranty that said method, manner or result thereof will conform to the contract or be suitable for Purchaser's purposes under the contract. Purchaser's reliance on any State advice regarding the method or manner of performance shall not relieve Purchaser of any risk or obligation under the contract. Purchaser retains the final responsibility for its operations under this contract and State shall not be liable for any injuries resulting from Purchaser's reliance on any State advice regarding the method or manner of performance.

G-091 Sale Area Adjustment

The Parties may agree to adjustments in the sale area boundary. The cumulative changes to the sale area during the term of the contract shall not exceed more than four percent of the original sale area. If the sale area is increased, the added forest products become a part of this contract. The State shall determine the volume added and shall calculate the increase to the total contract price using the rates set forth in clause G-101, G-102, or G-103. If the sale area is reduced, the State shall determine the volume to be reduced. The State shall calculate the reduction to the total contract price using the rates set forth in clause G-101, G-102, or G-103.

G-101 Forest Products Not Designated

Any forest products not designated for removal, which must be removed in the course of operations authorized by the State, shall be approved and designated by the Contract Administrator. Added forest products become a part of this contract and the Scribner log scale volume, as defined by the Northwest Log Rules Advisory Group, shall be determined by the Contract Administrator. Added forest products shall be paid for at the following contract payment rates per Mbf Scribner log scale.

The pricing schedule has not been set for the sale.

G-111 Title and Risk of Loss

Title to the forest products under this contract passes to the Purchaser after they are removed from the sale area, if adequate advance payment or payment security has been provided to the State under this contract. Purchaser bears all risk of loss of, or damage to, and has an insurable interest in, the forest products described in this contract from the time the sale is confirmed under RCW 79.15.120. Breach of this contract shall have no effect on this provision.

G-116 Sustainable Forestry Initiative® (SFI) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: PwC-SFIFM-513.

Purchaser shall have at least one person regularly on-site during active operations that have completed training according to the requirements outlined within the SFI® program Standard. Purchaser shall designate in writing the name(s) of the individual(s) who will be on-site and provide proof of their successful completion of an approved training program prior to active operations.

G-120 Responsibility for Work

All work, equipment, and materials necessary to perform this contract shall be the responsibility of Purchaser. Any damage to improvements, except as provided in clause G-121 or unless the State issues an operating release pursuant to clause G-280, shall be repaired promptly to the satisfaction of the State and at Purchaser's expense.

G-121 Exceptions

Exceptions to Purchaser's responsibility in clause G-120 shall be limited exclusively to the following. These exceptions shall not apply where road damage occurs due to Purchaser's failure to take reasonable precautions or to exercise sound forest engineering and construction practices.

The State will bear the cost to repair damages caused by a third party. In all other cases, the Purchaser shall bear responsibility for the costs as described below.

Road is defined as the road bed, including but not limited to its component parts, such as cut and fill slopes, subgrade, ditches, culverts, bridges, and cattle guards.

For the purposes of this clause, damage will be identified by the State and is defined as:

1. Failure of (a) required improvements or roads designated in clause C-050, or (b) required or optional construction completed to the point that authorization to haul has been issued;
2. Caused by a single event from forces beyond the control of Purchaser, its employees, agents, or invitees, including independent contractors; and
3. Includes, but is not limited to natural disasters such as earthquakes, volcanic eruptions, landslides, and floods.

The repair work identified by the State shall be promptly completed by Purchaser at an agreed price. The State may elect to accomplish repairs by means of State-provided resources.

For each event, Purchaser shall be solely responsible for the initial \$5,000 in repairs. For repairs in excess of \$5,000, the parties shall share equally the portion of costs between \$5,000 and \$15,000. The State shall be solely responsible for the portion of the cost of repairs that exceed \$15,000.

Nothing contained in clauses G-120 and G-121 shall be construed as relieving Purchaser of responsibility for, or damage resulting from, Purchaser's operations or negligence, nor shall Purchaser be relieved from full responsibility for making good any defective work or materials. Authorization to haul does not warrant that Purchaser built roads are free from material defect and the State may require additional work, at Purchasers expense regardless of cost, to remedy deficiencies at any time.

G-140 Indemnity

To the fullest extent permitted by law, Purchaser shall indemnify, defend and hold harmless State, agencies of State and all officials, agents and employees of State, from and against all claims arising out of or resulting from the performance of the contract. "Claim" as used in this contract means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable for bodily injury,

sickness, disease or death, or injury to or destruction of tangible property including loss of use resulting therefrom. Purchasers' obligations to indemnify, defend, and hold harmless includes any claim by Purchasers' agents, employees, representatives, or any subcontractor or its employees. Purchaser expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Purchasers' or any subcontractors' performance or failure to perform the contract. Purchasers' obligation to indemnify, defend, and hold harmless State shall not be eliminated or reduced by any actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Purchaser waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

G-150 Insurance

Purchaser shall, at its cost and expense, buy and maintain insurance of the types and amounts listed below. Failure to buy and maintain the required insurance may result in a breach and/or termination of the contract at State's option. State may suspend Purchaser operations until required insurance has been secured.

All insurance and surety bonds should be issued by companies admitted to do business within the State of Washington and have a rating of A-, Class VII or better in the most recently published edition of Best's Reports. If an insurer is not admitted, all insurance policies and procedures for issuing the insurance policies must comply with Chapter 48.15 RCW and 284-15 WAC.

The State of Washington, Department of Natural Resources region office of sale origin shall be provided written notice before cancellation or non-renewal of any insurance referred to therein, in accord with the following specifications:

1. Insurers subject to Chapter 48.18 RCW (admitted and regulated by the Insurance Commissioner): The insurer shall give the State 45 days advance notice of cancellation or non-renewal. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.
2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

Before starting work, Purchaser shall furnish State of Washington, Department of Natural Resources with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified in the contract. Insurance coverage shall be obtained by the Purchaser prior to operations commencing and continually maintained in full force until all contract obligations have been satisfied or an operating release has been signed by the State.

Purchaser shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each

subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Purchaser's liability or responsibility.

The State of Washington, Department of Natural Resources, its elected and appointed officials, agents and employees shall be named as an additional insured via endorsement on all general liability, excess, umbrella, and property insurance policies.

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Purchaser waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

By requiring insurance herein, State does not represent that coverage and limits will be adequate to protect Purchaser and such coverage and limits shall not limit Purchaser's liability under the indemnities and reimbursements granted to State in this contract.

The limits of insurance, which may be increased as deemed necessary by State of Washington, Department of Natural Resources, shall not be less than as follows:

Commercial General Liability (CGL) Insurance. Purchaser shall maintain general liability (CGL) insurance, and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000.00 per each occurrence. If such CGL insurance contains aggregate limits, the General Aggregate limit shall be at least twice the "each occurrence" limit. CGL insurance shall have products-completed operations aggregate limit of at least two times the "each occurrence" limit. CGL coverage shall include a Logging and Lumbering Endorsement (i.e. Logger's Broad-Form) to cover the events that include, but are not limited to, fire suppression expenses, accidental timber trespasses, and wildfire property damage with limits of not less than \$2,000,000.00 each occurrence.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 (or a substitute form providing equivalent coverage). All insurance shall cover liability arising out of premises, operations, independent contractors, products completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another party assumed in a business contract), and contain separation of insured (cross liability) condition.

Employer's Liability "Stop Gap" Insurance. Purchaser shall buy employers liability insurance, and, if necessary, commercial umbrella liability insurance with limits not less than \$1,000,000.00 each accident for bodily injury by accident or \$1,000,000.00 each employee for bodily injury by disease.

Workers' Compensation Coverage. Purchaser shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Purchaser and employees of any

subcontractor or sub-subcontractor. Coverage shall include bodily injury (including death) by accident or disease, which exists out of or in connection with the performance of this contract. Except as prohibited by law, Purchaser waives all rights of subrogation against State for recovery of damages to the extent they are covered by workers' compensation, employer's liability, commercial general liability, or commercial umbrella liability insurance.

If Purchaser, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Purchaser shall indemnify State. Indemnity shall include all fines, payment of benefits to Purchaser or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

Business Auto Policy (BAP). Purchaser shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit not less than \$1,000,000.00 per accident. Such insurance shall cover liability arising out of "Any Auto". Business auto coverage shall be written on ISO form CA 00 01, or substitute liability form providing equivalent coverage. If necessary the policy shall be endorsed to provide contractual liability coverage and cover a "covered pollution cost or expense" as provided in the 1990 or later editions of CA 00 01. Purchaser waives all rights against State for the recovery of damages to the extent they are covered by business auto liability or commercial umbrella liability insurance.

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Castle Rock, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive, modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the forest products conveyed beyond the terms of this contract.

Purchaser is required to have a person on site during all operations who is authorized to receive instructions and notices from the State. Purchaser shall inform the State in writing who is authorized to receive instructions and notices from the State, and any limits to this person's authority.

G-170 Assignment and Delegation

No rights or interest in this contract shall be assigned by Purchaser without prior written permission of the State. Any attempted assignment shall be void and ineffective for all purposes unless made in conformity with this paragraph. Purchaser may perform any duty through a delegate, but Purchaser is not thereby relieved of any duty to perform or any liability. Any assignee or delegate shall be bound by the terms of the contract in the same manner as Purchaser.

G-180 Modifications

Waivers, modifications, or amendments of the terms of this contract must be in writing signed by Purchaser and the State.

G-190 Contract Complete

This contract is the final expression of the Parties' agreement. There are no understandings, agreements, or representations, expressed or implied, which are not specified in this contract.

G-200 Notice

Notices required to be given under the following clauses shall be in writing and shall be delivered to Purchaser's authorized agent or sent by certified mail to Purchaser's address of record:

G-210 Violation of Contract

G-220 State Suspends Operations

All other notices required to be given under this contract shall be in writing and delivered to the authorized agent or mailed to the Party's post office address. Purchaser agrees to notify the State of any change of address.

G-210 Violation of Contract

- a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend those operations in violation. If the violation is capable of being remedied, Purchaser has 30 days after receipt of a suspension notice to remedy the violation. If the violation cannot be remedied (such as a violation of WAC 240-15-015) or Purchaser fails to remedy the violation within 30 days after receipt of a suspension notice, the State may terminate the rights of Purchaser under this contract and collect damages.
- b. If the contract expires pursuant to clause G-030 or G-031 without Purchaser having performed all its duties under this contract, Purchaser's right to operate is terminated and Purchaser shall not have the right to remedy the breach. This provision shall not relieve Purchaser of any payment obligations.
- c. The State has the right to remedy the breach in the absence of any indicated attempt by Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within 30 days of receipt of billing.
- d. If Purchaser's violation is a result of a failure to make a payment when due, in addition to a. and b. above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due.

G-220 State Suspends Operation

The Contract Administrator may suspend any operation of Purchaser under this contract when the State is suffering, or there is a reasonable expectation the State will suffer environmental, monetary, or other damage if the operation is allowed to continue.

Purchaser shall be in breach of this contract if the operation continues after the suspension notice or if the operation resumes without prior approval and notice from the Contract Administrator.

Purchaser may request a modification of a suspension within 30 days of the start of suspension through the dispute resolution process in clause G-240. If this process results in a finding that the suspension exceeded the time reasonably necessary to stop or prevent damage to the State, Purchaser is entitled to request a contract term adjustment under clause G-040.

If it reasonably appears that the damage that the State is suffering, or can reasonably be expected to suffer if the operation is allowed to continue, will prevent harvest for a period that will exceed 6 months, and Purchaser has complied with this contract, the provisions of clause G-066 shall govern just as if the harvest was prevented by an applicable foreign or domestic governmental regulation or order.

G-230 Unauthorized Activity

Any cutting, removal, or damage of forest products by Purchaser, its employees, agents, or invitees, including independent contractors, in a manner inconsistent with the terms of this contract or State law, is unauthorized. Such activity may subject Purchaser to liability for triple the value of said forest products under RCW 79.02.320 or RCW 79.02.300 and may result in prosecution under RCW 79.02.330 or other applicable statutes.

G-240 Dispute Resolution

The following procedures apply in the event of a dispute regarding interpretation or administration of this contract and the parties agree that these procedures must be followed before a lawsuit can be initiated.

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within ten business days.
- c. Within ten business days of receipt of the Region Manager's decision, Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.

- d. Unless otherwise agreed, a conference will be held by the Deputy Supervisor - Uplands within 30 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor - Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

G-250 Compliance with All Laws

Purchaser shall comply with all applicable statutes, regulations and laws, including, but not limited to; chapter 27.53 RCW, chapter 68.50 RCW, WAC 240-15 and WAC 296-54. Failure to comply may result in forfeiture of this contract.

G-260 Venue

This contract shall be governed by the laws of the State of Washington. In the event of a lawsuit involving this contract, venue shall be proper only in Thurston County Superior Court.

G-270 Equipment Left on State Land

All equipment owned or in the possession of Purchaser, its employees, agents, or invitees, including independent contractors, shall be removed from the sale area and other State land by the termination date of this contract. Equipment remaining unclaimed on State land 60 days after the expiration of the contract period is subject to disposition as provided by law. Purchaser shall pay to the State all costs of moving, storing, and disposing of such equipment. The State shall not be responsible for any damages to or loss of the equipment or damage caused by the moving, storing or disposal of the equipment.

G-280 Operating Release

An operating release is a written document, signed by the State and Purchaser, indicating that Purchaser has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Purchaser and State may agree to an operating release for this sale, or portion of this sale, prior to the contract expiration, when all contract requirements pertaining to the release area have been satisfactorily completed. Upon issuance of a release, Purchaser's right to cut and remove forest products on the released area will terminate.

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; the DV-130, DV-131, DV-132, L-1100, L-1101, L-1300, L-1301A, L-1700, and L-1720 Roads. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before beginning any operations. To the extent that the plan of operations is inconsistent with

the contract, the terms of the contract shall prevail. State's acceptance and approval of Purchaser's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, re-establish them through a licensed land surveyor in accordance with U.S. General Land Office standards. Corners and/or witness objects that must be disturbed or destroyed in the process of road construction or logging shall be adequately referenced and/or replaced in accordance with RCW 58.24.040(8). Such references must be approved by the Contract Administrator prior to removal of said corners and/or witness objects.

G-360 Road Use Reservation

The State shall have the right to use, without charge, all existing roads and any road constructed or reconstructed on State lands by Purchaser under this contract. The State may extend such rights to others. If the State grants such rights to others, the State shall require performance or payment, as directed by the State, for their proportionate share of maintenance based on their use.

G-370 Blocking Roads

Purchaser shall not block the Dole Valley Road, DV-130, L-1301A, and L-1700, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

Purchaser agrees to comply with the terms and conditions of the attached:

Road Use Permit #55-1000595 between the State and Andrew Muonio and Greg Ek, dated 3/13/2020. Expires: 05/31/2024.

Easement Exchange between the State, Synergy Resources, LLC and Hambleton Bros. Lumber Company, dated June 30, 2017

G-430 Open Fires

Purchaser shall not set, or allow to be set by Purchaser's employees, agents, invitees and independent contractors, any open fire at any time of the year without first obtaining permission, in writing, from the Contract Administrator.

G-450 Encumbrances

This contract and Purchaser's activities are subject to the following:

Easement, including the terms and provisions thereof,
For: County Road
In Favor of: Clark County
Disclosed by Application No.: 50-CR3281
Granted: 12/11/1991

Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Orville R. & Gladys M. Sivits
Disclosed by Application No.: 50-040437
Granted: 5/23/1978
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Thomas H. Hicks
Disclosed by Application No.: 50-043650
Granted: 2/19/1981
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Trail
In Favor of: DNR
Disclosed by Application No.: 50-070265
Granted: 4/29/1998
Expires: 1/31/2023

Easement, including the terms and provisions thereof,
For: Road Use Permit
In Favor of: Krueger Logging, Inc.
Disclosed by Application No.: 50-094913
Granted: 11/28/2016
Expires: 12/1/2021

Lease, including the terms and provisions thereof,
For: Land Use License
In Favor of: Washington Department of Fish & Wildlife
Disclosed by Application No.: 60-095576
Granted: 5/2/2017
Expires: 6/30/2022

Lease, including the terms and provisions thereof,
For: Minor Forest Products
In Favor of: DNR – Pacific Cascade Region
Disclosed by Application No.: 35-RP0006
Granted: 3/9/1993
Expires: Indefinite

Lease, including the terms and provisions thereof,
For: Land Use License

In Favor of: Search Dogs Northwest
Disclosed by Application No.: 60-PC1811
Granted: 2/13/2017
Expires: 2/1/2021

Lease, including the terms and provisions thereof,
For: Land Use License
In Favor of: Clark County Public Utilities
Disclosed by Application No.: 60-PC1902
Granted: 7/17/2018
Expires: 10/30/2021

Section P: Payments and Securities

P-011 Initial Deposit

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in Clause P-020, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$83,434.00. The total contract price consists of a \$0.00 contract bid price plus \$83,434.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

THE PURCHASE PRICE SHALL NOT BE AFFECTED BY ANY FACTORS, INCLUDING: the amount of forest products actually present within the contract area, the actual acreage covered by the contract area, the amount or volume of forest products actually cut or removed by purchaser, whether it becomes physically impossible or uneconomic to remove the forest products, and whether the subject forest products have been lost or damaged by fire or any other cause. The only situations Purchaser may not be liable for the full purchase price are governed by clause G-066, concerning governmental regulatory actions taken during the term of the contract.

P-045 Guarantee of Payment

Purchaser will pay for forest products prior to cutting or will guarantee payment by posting an approved payment security. The amount of cash or payment security shall be determined by the State and shall equal or exceed the value of the cutting proposed by Purchaser.

P-050 Billing Procedure

The State will compute and forward to Purchaser statements of charges provided for in the contract. Purchaser shall deliver payment to the State on or before the date shown on the billing statement.

P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$100,000.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

The State may reduce the performance security after an operating release has been issued if the State determines that adequate security exists for any remaining obligations of Purchaser.

Section H: Harvesting Operations

H-010 Cutting and Yarding Schedule

Yarding will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator.

H-013 Reserve Tree Damage Definition

Reserve trees are trees required and designated for retention within the sale boundary. Purchaser shall protect reserve trees from being cut, damaged, or removed during operations.

Reserve tree damage exists when one or more of the following criteria occur as a result of Purchaser's operation, as determined by the Contract Administrator:

- a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.
- b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

If the Contract Administrator determines that a reserve tree has been cut or damaged, the Purchaser shall provide a replacement reserve tree of like condition, size, and species within the sale unit containing the damaged leave tree, as approved by the Contract Administrator. Purchaser may be required to pay liquidated damages for Excessive Reserve Tree Damage as detailed in clause D-041.

Removal of designated reserve trees from the sale area is unauthorized, and may invoke the use of the G-230 'Trespass and Unauthorized Activity' clause. Purchaser is required to leave all cut or damaged reserve trees on site.

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 8 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-035 Fall Trees Into Sale Area

Trees shall be felled into the sale area unless otherwise approved by the Contract Administrator.

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for all units. The plan shall address the harvest requirements, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval by the Contract Administrator.

H-051 Branding and Painting

Purchaser shall provide a State of Washington registered log brand, acceptable to the State, unless the State agrees to furnish the brand. All purchased timber shall be branded in a manner that meets the requirements of WAC 240-15-030(2)(a)(i). All timber purchased under a contract designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

For pulp loads purchased under a contract designated as export restricted, Purchaser shall brand at least 3 logs with legible brands at one end. Also, 10 logs shall be painted at one end with durable red paint.

H-080 Snags Not to be Felled

Snags not required to be felled for safety reasons may be left standing. Snags felled for safety reasons shall not be removed and must remain where felled.

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using shovel, forwarder, and track skidder yarding equipment. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-131 Hauling Schedule

The hauling of forest products will not be permitted on the DV-130 from October 1st to May 31st unless authorized in writing by the State.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

Ground based yarding equipment shall only operate during dry soil conditions

Permission to do otherwise must be granted in writing by the Contract Administrator.

H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

Within shovel logging areas, the shovel operator shall break up concentrations of logging debris greater than 10 feet by 10 feet to allow exposure of natural forest soils to ensure proper reforestation

Permission to do otherwise must be granted in writing by the State.

H-190 Completion of Settings

Operations begun on any setting of the sale area shall be completed before any operation begins on subsequent settings unless authorized in writing by the Contract Administrator.

H-220 Protection of Residual or Adjacent Trees

Unless otherwise specified by this contract, the Contract Administrator shall identify damaged adjacent or leave trees that shall be paid for according to clause G-230.

H-250 Additional Falling Requirements

Within all units, all non-merchantable live stems greater than 2 inches DBH and greater than 10 feet tall, shall be felled concurrently with felling operations. Areas of young or immature timber may be excluded from this requirement by the Contract Administrator.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 6/17/2020 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on the DV-131, L-101, L-1101, L-1301A, L-1720, and R-100 from station 23+04 to 128+08 Roads. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on R-100 stations 0+00 to 23+04 and all other roads not listed in Clause C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-130 Dust Abatement

Purchaser shall abate dust on the DV-130 Road.

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

An Emergency Response Plan (ERP) shall be provided to the Contract Administrator containing but not limited to, valid contact numbers and procedures for medical emergencies, fire, hazardous spills, forest practice violations and any unauthorized or unlawful activity on or in the vicinity of the sale area. The Contract Administrator and the State shall be promptly notified whenever an incident occurs requiring an emergency response.

The ERP must be presented for inspection at the prework meeting and kept readily available to all personnel, including subcontractors, on site during active operations.

S-010 Fire Hazardous Conditions

Purchaser acknowledges that operations under this Contract may increase the risk of fire. Purchaser shall conduct all operations under this agreement following the requirements of WAC 332-24-005 and WAC 332-24-405 and further agrees to use the highest degree of care to prevent uncontrolled fires from starting.

In the event of an uncontrolled fire, Purchaser agrees to provide equipment and personnel working at the site to safely and effectively engage in first response fire suppression activity.

Purchaser's failure to effectively engage in fire-safe operations is considered a breach and may result in suspension of operations.

S-020 Extreme Hazard Abatement

Purchaser shall provide a written Extreme Hazard Abatement plan that meets the requirements of WAC 332-24 prior to the beginning of logging operations. The plan must be acceptable to the Contract Administrator. The plan will identify how Purchaser will accomplish abatement. Purchaser shall also provide, and keep current, a written timetable for completion of all specified work in the plan. The Contract Administrator's acceptance and approval of Purchaser's hazard abatement plan shall not be construed as any statement or warranty that the hazard abatement plan is adequate for Purchaser's purposes or complies with applicable laws.

S-030 Landing Debris Clean Up

Landing debris shall be disposed of in a manner approved in writing by the Contract Administrator.

S-035 Logging Debris Clean Up

Slash and debris created from harvest activities shall be treated in a manner approved in writing by the Contract Administrator.

S-040 Noxious Weed Control

Purchaser shall notify the Contract Administrator in advance of moving equipment onto State lands. Purchaser shall thoroughly clean all off road equipment prior to entry onto State land to remove contaminated soils and noxious weed seed. If equipment is moved from one DNR project area to another, the Contract Administrator reserves the right to require the cleaning of equipment. Equipment shall be cleaned at a location approved by the Contract Administrator.

S-050 Cessation of Operations for Low Humidity

When the humidity is 30 percent or lower on the sale area, all operations must cease unless authority to continue is granted by the State in writing.

S-060 Pump Truck or Pump Trailer

Purchaser shall provide a fully functional pump truck or pump trailer equipped to meet the specifications of WAC 332-24-005 and WAC 332-24-405 during the "closed season" or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

S-100 Stream Cleanout

Slash or debris which enters any typed stream as a result of operations under this contract and which is identified by the Contract Administrator shall be removed and deposited in a stable position. Removal of slash or debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation.

S-130 Hazardous Materials

- a. Hazardous Materials and Waste - Regulatory Compliance

Purchaser is responsible for understanding and complying with all applicable local, state, and federal hazardous material/waste laws and regulations for operations conducted under this contract. Such regulations pertain to, but may not be limited to, hazardous material storage, handling and transport, personnel protection, release notification and emergency response, cleanup, and waste disposal.

Purchaser shall be responsible for restoring the site in the event of a spill or other releases of hazardous material/waste during operations conducted under this contract.

b. Hazardous Materials Spill Prevention

All operations shall be conducted in a manner that avoids the release of hazardous materials, including petroleum products, into the environment (water, air or land).

c. Hazardous Materials Spill Containment, Control and Cleanup

If safe to do so, Purchaser shall take immediate action to contain and control all hazardous material spills. Purchaser shall ensure that enough quick response spill kits capable of absorbing 10 gallons of oil, coolant, solvent or contaminated water are available on site to quickly address potential spills from any piece of equipment at all times throughout active operations. If large quantities of bulk fuel/other hazardous materials are stored on site, Purchaser must be able to effectively control a container leak and contain & recover a hazmat spill equal to the largest single on site storage container volume. (HAZWOPER reg. 29CFR 1910.120 (j) (1) (vii)).

d. Hazardous Material Release Reporting

Releases of oil or hazardous materials to the environment must be reported according to the State Department of Ecology (DOE). It is the responsibility of the Purchaser to have all emergency contact information readily available and a means of remote communication for purposes of quick notification. In the event of a spill covered in part a., the Purchaser is responsible for immediately notifying all the following:

- Department of Emergency Management (contact information below).
- National Response Center (contact information below).
- Appropriate Department of Ecology (DOE) regional office (contact information below).
- DNR Contract Administrator

DOE - Northwest Region: 1-425-649-7000
(Island, King, Kitsap, San Juan, Skagit, Snohomish, and Whatcom counties)

DOE - Southwest Region: 1-360-407-6300
(Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, and Wahkiakum counties)

DOE - Central Region: 1-509-575-2490
(Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, and Yakima counties)

DOE - Eastern Region: 1-509-329-3400
(Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, and Whitman counties)

Department of Emergency Management 24-hour Number: 1-800-258-5990

National Response Center: 1-800-424-8802

S-131 Refuse Disposal

As required by RCW 70.93, All Purchaser generated refuse shall be removed from state lands for proper disposal prior to termination of this contract. No refuse shall be burned, buried or abandoned on state forest lands. All refuse shall be transported in a manner such that it is in compliance with RCW 70.93 and all loads or loose materials shall be covered/secured such that these waste materials are properly contained during transport.

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

The following clauses provide for payments by Purchaser to the State for breaches of the terms of this contract other than failure to perform. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State, which will be caused by Purchaser's breach. These liquidated damages provisions are agreed to by the State and Purchaser with the understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Purchaser by allowing the Purchaser to better assess its responsibilities under the contract.

Clause P-020 governs Purchaser's liability in the event Purchaser fails to perform any of the contract requirements other than the below liquidated damage clauses without written approval by the State. Purchaser's failure to pay for all or part of the forest products sold in this contract prior to expiration of the contract term results in substantial injury to the State. Therefore, Purchaser agrees to pay the State the full lump sum contract price in P-020 in the event of failure to perform.

D-041 Reserve Tree Excessive Damage

When Purchaser’s operations exceed the damage limits set forth in clause H-013, Reserve Tree Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve tree is not possible, the damaged trees result in substantial injury to the State. The value of the damaged reserve trees at the time of the breach is not readily ascertainable. Therefore, the Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged reserve trees that are not replaced in all units.

SIGNATURES

This agreement may be executed in any number of counterparts (including by electronic mail in portable document format (.pdf), or by facsimile) each of which shall be deemed an original but all of which, when taken together, shall constitute one and the same Agreement binding on all parties.

IN WITNESS WHEREOF, the Parties hereto have entered into this contract.

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Eric Wisch

Print Name

Pacific Cascade Region Manager

Date: _____

Date: _____

Address: _____

CORPORATE ACKNOWLEDGEMENT
(Required for both LLC and Inc. Entities)

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 20____, before me personally appeared _____

_____ to me known to be the _____ of the corporation that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned, and on oath stated that (he/she was) (they were) authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public in and for the State of

My appointment expires _____

PRE-CRUISE NARRATIVE

Sale Name: DREAMER VRH	Region: Pacific Cascade
Agreement #: 30-100846	District:
Contact Forester: Amanda Taylor Phone / Location: (360)827-1064	County(s): Clark,
Alternate Contact: Aaron Nelson Phone / Location: (360) 601-0296	Other information:

Type of Sale: Lump Sum	
Harvest System: Ground based	100%

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
Unit 1	Sec. 28/T04N/R04E	01, 03	43	9	3			31	GPS (Trimble)
Unit 2	Sec. 28/T04N/R04E	03	31	3	3	1		24	GPS (Trimble)
Unit 3	Sec. 29/T04N/R04E	01	22	11	0	0	1 (unstable slope)	10	GPS (Trimble)
Unit 4	Sec. 32/T04N/R04E	01	57	24	2	0		31	GPS (Trimble)
Unit 5	Sec. 32/T04N/R04E	01	27	15	1	0		11	GPS (Trimble)
TOTAL ACRES			180	62	9	1	1	107	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1 VRH	Unit 1 is bound by white "Timber Sale Boundary" tags, pink flagging, private property, and the L-1700 road. Clumped		281 leave trees

	leave trees are bound with yellow "Leave Tree Area" tags and pink flagging. Individual leave trees are marked with a ring of blue paint.		
2 VRH	Unit 2 is bound by white "Timber Sale Boundary" tags, pink flagging and the L-1720 road. Clumped leave trees are bound with yellow "Leave Tree Area" tags and pink flagging. Individual leave trees are marked with a ring of blue paint.		242 leave trees
3 VRH	Unit 3 is bound by white "Timber Sale Boundary" tags, pink flagging, Dole Valley Road and the L-1700 road. Clumped leave trees are bound by yellow "Leave Tree Area" tags and pink flagging. Individual leave trees are marked with a ring of blue paint.		82 leave trees
4 VRH	Unit 4 is bound by white "Timber Sale Boundary" tags, pink flagging and private property. Clumped leave trees are bound by yellow "Leave Tree Area" tags and pink flagging. Individual leave trees are marked with a ring of blue paint.		Private trespass and fencing on the eastern and north eastern boundaries . 270 leave trees.
5	Unit 5 is bound by white "Timber Sale Boundary" tags, pink flagging and private property. Clumped leave trees are bound by yellow "Leave Tree Area" tags and pink flagging. Individual leave trees are marked with a ring of blue paint.		124 leave trees.

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF/WH/RA 1275/mbf	Unit 1 can be accessed via the Dole Valley road, onto the L-1700 through a PCP 1-1 gate.	
2	DF/WH/RA 1275/mbf	Unit 2 can be accessed via Dole Valley Road, through a PCP 1-1 gate on the L-1700 to the L-1720.	
3	DF/WH/RA 600/mbf	Unit 3 accessed on the corner of Dole Valley Road and the L-1700.	
4	DF/WH/RA 930/mbf	Unit 4 can be accessed from Dole Valley Road onto the L-1302 through a private combination gate.	

5	DF/WH/RA 600/mbf	Unit 5 can be accessed from the Dole Valley Road onto the L-1300, near the rock creek bridge. Through a private combo gate. Park at the end of the road and follow the orange ROW flagging to the Unit.	
TOTAL MBF	4680/mbf		

REMARKS:

Please call forester to obtain gate combinations to access Units 4 & 5.

Prepared By: Date: Amanda Taylor	Title: NRS-2	CC: Aaron Nelson
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Timber Sale Cruise Report Dreamer VRH

Sale Name: DREAMER VRH

Sale Type: LUMP SUM

Region: PACIFIC CASC

District: YACOLT

Lead Cruiser: K. Bailey

Other Cruisers: D. Clark, A. Chaney

Cruise Narrative: Dreamer VRH is a 5 unit timber sale located east of Battle Ground.

With gentle ground this sale may entirely be harvested with ground based logging techniques. As a whole this sale is dominated with DF of various sorts and age classes, with minor amounts of RA and MA. DF sorts were mostly domestic, but did have pockets of high quality scattered throughout the sale. The DF averaged around 20 inches at DBH, bole heights ranged from the mid 80's, reaching up into the low 100's. Overall Defects noticed were common for the area and of this age class. Mostly consisting of; sweep, crooks, spike knots, swollen butts and few conks.

Access for units 1-3 is off of the 1700 road system(PCP1-1). Units 4 and 5 require access through private(combo lock).

*Note - All timber was sighted in and out at 16'.

- Timber was cruised to 40% of form factor @ 16' DOB or 5" top.

- Cruise was expanded on cruise acres, not FMA acres.

- Leave tree clumps are bound with yellow "Leave tree area" tags and pink flagging, individual leave trees are marked with a blue band of paint @ DBH.

- High quality sort description: Logs meeting the following criteria: Surface characteristics for a B sort will have sound tight knots not to exceed 1 ½" in diameter. May include logs with not more than two larger knots up to 2 ½" in diameter. Logs will have a growth ring count of 6 or more rings per inch in the outer third to end of the log. (min dia 8".) DF only

Timber Sale Notice Volume (MBF)

Sp	QMD	Rings/In	Age	MBF Volume by Grade					
				All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	20.7	6		3,145.3	32.8	2,267.3	628.5	205.5	11.0
RA	13.8			60.8		3.6	25.9	27.5	3.7
MA	12.0			3.4				2.6	0.9
ALL	19.8			3,209.5	32.8	2,270.9	654.4	235.7	15.6

Timber Sale Notice Weight (tons)

Sp	Tons by Grade					
	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	22,085.8	189.3	15,033.0	5,006.2	1,790.8	66.6
RA	563.5		31.6	201.2	286.1	44.6
MA	29.8				25.5	4.3

Sp	Tons by Grade					
	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
ALL	22,679.1	189.3	15,064.6	5,207.4	2,102.2	115.5

Timber Sale Overall Cruise Statistics (Cut + Leave Trees)

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
180.3	4.1	167.2	1.9	29,995	4.6

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
DREAMER U1	B2C: VR, 2 BAF (40, 27.78 for some species) Measure/Count Plots	31.0	34.6	31	16	0
DREAMER U2	B2C: VR, 2 BAF (33.61, 27.78 for some species) Measure/Count Plots	24.0	25.5	24	12	2
DREAMER U3	B1C: VR, 1 BAF (33.61) Measure/Count Plots	10.0	10.1	13	7	1
DREAMER U4	B1C: VR, 1 BAF (27.78) Measure/Count Plots	31.0	33.0	32	17	0
DREAMER U5	B1C: VR, 1 BAF (33.61) Measure/Count Plots	11.0	13.0	20	10	1
All		107.0	116.1	120	62	4

Timber Sale Log Grade x Diameter Bin Summary

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	UTILITY	5.2	19.0	103	0.0	66.7	11.0
DF	5 - 8	LIVE	CULL	5.8	4.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	5.9	26.0	1,685	0.8	1,555.2	180.3
DF	5 - 8	LIVE	3 SAW	7.6	37.0	1,419	0.3	1,420.2	151.8
DF	9 - 11	LIVE	CULL	9.5	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	4 SAW	9.7	19.0	236	0.4	235.5	25.3
DF	9 - 11	LIVE	3 SAW	10.3	35.0	3,947	1.2	3,201.2	422.3
DF	12 - 14	LIVE	CULL	12.5	2.0	0	100.0	0.0	0.0
DF	12 - 14	LIVE	3 SAW	12.6	36.0	380	0.8	298.4	40.6
DF	12 - 14	LIVE	2 SAW	13.7	38.0	4,455	1.2	3,502.9	476.7
DF	15 - 19	LIVE	3 SAW	16.1	37.0	127	3.4	86.2	13.6
DF	15 - 19	LIVE	2 SAW	17.1	39.0	9,358	2.4	6,726.8	1,001.3
DF	15 - 19	LIVE	SPECIAL MILL	17.5	40.0	307	0.0	189.3	32.8

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	15 - 19	LIVE	CULL	18.5	5.0	0	100.0	0.0	0.0
DF	20+	LIVE	2 SAW	22.1	38.0	7,378	3.1	4,803.2	789.4
DF	20+	LIVE	CULL	22.4	4.0	0	100.0	0.0	0.0
DF	20+	LIVE	UTILITY	25.3	14.0	0	100.0	0.0	0.0
MA	5 - 8	LIVE	UTILITY	5.1	15.0	8	0.0	4.3	0.9
MA	5 - 8	LIVE	4 SAW	7.6	30.0	24	0.0	25.5	2.6
RA	5 - 8	LIVE	UTILITY	5.3	17.0	35	40.4	44.6	3.8
RA	5 - 8	LIVE	CULL	5.4	3.0	0	100.0	0.0	0.0
RA	5 - 8	LIVE	4 SAW	6.2	27.0	184	8.1	198.4	19.7
RA	9 - 11	LIVE	4 SAW	9.4	35.0	73	17.3	87.6	7.8
RA	9 - 11	LIVE	3 SAW	10.7	32.0	243	2.9	201.2	26.0
RA	12 - 14	LIVE	2 SAW	14.2	36.0	34	5.4	31.6	3.6

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Pulp	5.2	19.0	103	0.0	66.7	11.0
DF	5 - 8	LIVE	Cull	5.8	4.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	6.3	28.0	2,969	0.6	2,860.6	317.7
DF	5 - 8	LIVE	HQ-B	8.4	39.0	135	0.0	114.8	14.4
DF	9 - 11	LIVE	Cull	9.5	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	Domestic	10.2	32.0	3,320	1.0	2,749.7	355.2
DF	9 - 11	LIVE	HQ-B	10.3	36.0	863	1.5	687.0	92.3
DF	12 - 14	LIVE	Cull	12.5	2.0	0	100.0	0.0	0.0
DF	12 - 14	LIVE	Domestic	13.6	37.0	3,468	1.3	2,721.3	371.1
DF	12 - 14	LIVE	HQ-B	13.6	38.0	1,367	0.6	1,080.0	146.3
DF	15 - 19	LIVE	Domestic	17.1	38.0	7,201	2.7	5,230.5	770.5
DF	15 - 19	LIVE	HQ-B	17.1	39.0	2,284	1.3	1,582.6	244.4
DF	15 - 19	LIVE	HQ-A	17.5	40.0	307	0.0	189.3	32.8
DF	15 - 19	LIVE	Cull	18.5	5.0	0	100.0	0.0	0.0
DF	20+	LIVE	HQ-B	21.2	40.0	903	0.6	548.3	96.6
DF	20+	LIVE	Cull	22.4	4.0	0	100.0	0.0	0.0
DF	20+	LIVE	Domestic	22.4	37.0	6,475	3.4	4,255.0	692.8
DF	20+	LIVE	Pulp	25.3	14.0	0	100.0	0.0	0.0
MA	5 - 8	LIVE	Pulp	5.1	15.0	8	0.0	4.3	0.9
MA	5 - 8	LIVE	Domestic	7.6	30.0	24	0.0	25.5	2.6
RA	5 - 8	LIVE	Pulp	5.3	17.0	35	40.4	44.6	3.8
RA	5 - 8	LIVE	Cull	5.4	3.0	0	100.0	0.0	0.0

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
RA	5 - 8	LIVE	Domestic	6.2	27.0	184	8.1	198.4	19.7
RA	9 - 11	LIVE	Domestic	10.3	33.0	316	6.7	288.8	33.8
RA	12 - 14	LIVE	Domestic	14.2	36.0	34	5.4	31.6	3.6

Timber Sale Distribution of Volume by County and Timber Trust by Sale Unit

Unit	Harvest Type	N Trusts	Timber Trust	County	Unit MBF	Sale MBF	Unit % of Sale	Trust % of Unit	Trust % of Sale
DREAMER U1	VRH	1	1	Clark	1,197.4	3,209.5	37.31	42.50	15.84
DREAMER U1	VRH	1	3	Clark	1,197.4	3,209.5	37.31	57.50	21.47
DREAMER U2	VRH	1	3	Clark	604.2	3,209.5	18.83	100.00	18.83
DREAMER U3	VRH	1	1	Clark	233.6	3,209.5	7.28	100.00	7.28
DREAMER U4	VRH	1	1	Clark	765.5	3,209.5	23.85	100.00	23.85
DREAMER U5	VRH	1	1	Clark	408.8	3,209.5	12.74	100.00	12.74

Timber Sale Distribution of Volume by County and Timber Trust for the Timber Sale

Timber Trust	County	Trust % of Sale
1	Clark	59.71
3	Clark	40.30

Cruise Unit Report DREAMER U1

Unit Sale Notice Volume (MBF): DREAMER U1

Sp	QMD	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
DF	22.1			1,150.9	864.1	227.2	59.6	
RA	13.7			46.5	3.6	22.7	17.5	2.7
ALL	20.1			1,197.4	867.7	249.9	77.1	2.7

Unit Sale Notice Weight (tons): DREAMER U1

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
DF	8,315.8	5,918.4	1,864.4	533.1	
RA	434.0	31.6	176.3	190.5	35.6
ALL	8,749.8	5,950.0	2,040.7	723.5	35.6

Unit Cruise Design: DREAMER U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (40, 27.78 for some species) Measure/Count Plots	31.0	34.5	31	16	0

Unit Cruise Summary: DREAMER U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	49	121	3.9	0
RA	13	13	0.4	0
ALL	62	134	4.3	0

Unit Cruise Statistics (Cut + Leave Trees): DREAMER U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	225.1	48.3	8.7	164.9	23.3	3.3	37,126	53.6	9.3
RA	17.8	301.1	54.1	84.1	44.7	12.4	1,501	304.4	55.5
ALL	243.0	32.9	5.9	159.0	31.7	4.0	38,626	45.7	7.2

Unit Summary: DREAMER U1

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	49	ALL	22.1	82	105	37,126	2.9	84.5	225.1	47.9	8,315.8	1,150.9
RA	LIVE	CUT	13	ALL	13.7	52	62	1,501	11.6	17.4	17.8	4.8	434.0	46.5
ALL	LIVE	CUT	62	ALL	20.9	77	98	38,627	3.3	101.9	242.9	52.7	8,749.8	1,197.4
ALL	ALL	ALL	62	ALL	20.9	77	98	38,627	3.3	101.9	242.9	52.7	8,749.8	1,197.4

Unit Stand Table: DREAMER U1

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	10	LIVE	CUT	2	9.5	53	65	748	1.1	16.4	8.0	2.6	159.3	23.2
DF	14	LIVE	CUT	1	13.0	54	83	392	0.0	4.2	3.9	1.1	99.3	12.1
DF	16	LIVE	CUT	3	16.0	74	94	1,450	0.7	8.3	11.5	2.9	361.6	45.0
DF	18	LIVE	CUT	1	17.0	74	93	441	2.1	2.4	3.8	0.9	120.4	13.7
DF	20	LIVE	CUT	5	19.6	81	103	2,575	2.0	9.3	19.4	4.4	645.6	79.8
DF	22	LIVE	CUT	2	21.3	94	119	1,805	0.6	4.7	11.7	2.5	427.1	55.9
DF	24	LIVE	CUT	9	23.6	97	124	6,618	1.9	12.7	38.5	7.9	1,510.5	205.2
DF	26	LIVE	CUT	5	25.4	100	127	3,366	2.9	5.5	19.3	3.8	765.7	104.3
DF	28	LIVE	CUT	6	27.9	94	120	4,862	4.0	7.4	31.5	6.0	1,162.9	150.7
DF	30	LIVE	CUT	4	29.5	93	118	2,418	4.9	3.4	15.9	2.9	559.5	75.0
DF	32	LIVE	CUT	5	31.3	99	126	5,342	2.0	5.0	26.8	4.8	1,058.4	165.6
DF	34	LIVE	CUT	2	33.0	109	139	3,312	4.6	2.5	15.1	2.6	669.4	102.7
DF	36	LIVE	CUT	3	35.2	101	129	2,989	5.2	2.3	15.7	2.6	610.0	92.6
DF	38	LIVE	CUT	1	38.0	110	141	809	6.4	0.5	3.9	0.6	166.1	25.1
RA	8	LIVE	CUT	1	7.0	34	39	0	100.0	5.9	1.6	0.6	0.0	0.0
RA	14	LIVE	CUT	1	13.0	64	79	125	13.4	1.4	1.3	0.4	38.1	3.9
RA	16	LIVE	CUT	10	15.6	58	71	1,243	6.6	10.2	13.5	3.4	357.8	38.5
RA	24	LIVE	CUT	1	23.0	61	75	133	4.8	0.5	1.4	0.3	38.1	4.1

Unit Log Grade Summary: DREAMER U1

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	16.8	38.0	27,876	3.4	5,918.4	864.1
DF	LIVE	3 SAW	9.4	35.0	7,328	0.7	1,864.4	227.2
DF	LIVE	4 SAW	6.3	24.0	1,923	0.6	533.1	59.6
DF	LIVE	CULL	10.5	3.0	0	100.0	0.0	0.0
RA	LIVE	2 SAW	14.2	36.0	116	5.4	31.6	3.6
RA	LIVE	3 SAW	10.6	32.0	733	3.3	176.3	22.7
RA	LIVE	4 SAW	6.5	30.0	564	12.7	190.5	17.5
RA	LIVE	UTILITY	5.2	17.0	88	48.2	35.6	2.7

Unit Log Sort Summary: DREAMER U1

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	10.5	3.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	10.6	32.0	30,566	3.0	6,880.4	947.5
DF	LIVE	HQ-B	14.4	38.0	6,560	1.6	1,435.4	203.4
RA	LIVE	Domestic	7.9	31.0	1,413	7.5	398.4	43.8
RA	LIVE	Pulp	5.2	17.0	88	48.2	35.6	2.7

Unit Log Grade x Sort Summary: DREAMER U1

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	17.1	38.0	22,061	3.8	4,657.7	683.9
DF	LIVE	2 SAW	HQ-B	15.7	38.0	5,815	1.8	1,260.7	180.3
DF	LIVE	3 SAW	Domestic	9.3	35.0	6,582	0.8	1,689.6	204.0
DF	LIVE	3 SAW	HQ-B	10.3	36.0	746	0.0	174.8	23.1
DF	LIVE	4 SAW	Domestic	6.3	24.0	1,923	0.6	533.1	59.6
DF	LIVE	CULL	Cull	10.5	3.0	0	100.0	0.0	0.0
RA	LIVE	2 SAW	Domestic	14.2	36.0	116	5.4	31.6	3.6
RA	LIVE	3 SAW	Domestic	10.6	32.0	733	3.3	176.3	22.7
RA	LIVE	4 SAW	Domestic	6.5	30.0	564	12.7	190.5	17.5
RA	LIVE	UTILITY	Pulp	5.2	17.0	88	48.2	35.6	2.7

Unit Log Grade x Diameter Bin Summary: DREAMER U1

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	6.0	24.0	1,596	0.5	435.1	49.5
DF	5 - 8	LIVE	3 SAW	7.5	36.0	1,776	0.1	567.2	55.0
DF	5 - 8	LIVE	CULL	8.1	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	4 SAW	9.9	24.0	326	1.1	98.0	10.1
DF	9 - 11	LIVE	3 SAW	10.5	35.0	5,083	0.7	1,199.7	157.6
DF	12 - 14	LIVE	3 SAW	12.3	32.0	175	0.0	38.8	5.4
DF	12 - 14	LIVE	2 SAW	13.6	37.0	5,316	1.3	1,228.8	164.8
DF	15 - 19	LIVE	3 SAW	16.7	40.0	294	5.0	58.7	9.1
DF	15 - 19	LIVE	2 SAW	17.0	39.0	14,238	3.2	3,080.8	441.4
DF	20+	LIVE	CULL	22.4	4.0	0	100.0	0.0	0.0
DF	20+	LIVE	2 SAW	22.6	37.0	8,322	5.1	1,608.8	258.0
RA	5 - 8	LIVE	UTILITY	5.2	17.0	88	48.2	35.6	2.7
RA	5 - 8	LIVE	4 SAW	5.9	30.0	413	8.5	135.0	12.8
RA	9 - 11	LIVE	4 SAW	9.7	32.0	151	22.6	55.4	4.7
RA	9 - 11	LIVE	3 SAW	10.6	32.0	733	3.3	176.3	22.7

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
RA	12 - 14	LIVE	2 SAW	14.2	36.0	116	5.4	31.6	3.6

Unit Log Sort x Diameter Bin Summary: DREAMER U1

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.5	28.0	3,372	0.3	1,002.4	104.5
DF	5 - 8	LIVE	Cull	8.1	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	HQ-B	10.3	36.0	746	0.0	174.8	23.1
DF	9 - 11	LIVE	Domestic	10.4	34.0	4,664	0.8	1,122.9	144.6
DF	12 - 14	LIVE	HQ-B	13.5	38.0	1,555	1.2	377.4	48.2
DF	12 - 14	LIVE	Domestic	13.6	37.0	3,935	1.3	890.2	122.0
DF	15 - 19	LIVE	HQ-B	16.9	39.0	3,762	2.0	792.3	116.6
DF	15 - 19	LIVE	Domestic	17.0	39.0	10,770	3.7	2,347.1	333.9
DF	20+	LIVE	HQ-B	22.1	36.0	497	2.8	91.0	15.4
DF	20+	LIVE	Cull	22.4	4.0	0	100.0	0.0	0.0
DF	20+	LIVE	Domestic	22.6	37.0	7,825	5.2	1,517.8	242.6
RA	5 - 8	LIVE	Pulp	5.2	17.0	88	48.2	35.6	2.7
RA	5 - 8	LIVE	Domestic	5.9	30.0	413	8.5	135.0	12.8
RA	9 - 11	LIVE	Domestic	10.4	32.0	884	7.3	231.7	27.4
RA	12 - 14	LIVE	Domestic	14.2	36.0	116	5.4	31.6	3.6

Cruise Unit Report DREAMER U2

Unit Sale Notice Volume (MBF): DREAMER U2

Sp	QMD	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	24.6			596.9	525.2	44.2	19.8	7.6
RA	16.5			7.4		3.2	3.1	1.0
ALL	24.0			604.2	525.2	47.4	23.0	8.6

Unit Sale Notice Weight (tons): DREAMER U2

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
DF	4,025.7	3,439.6	358.7	177.2	50.3
RA	66.1		24.9	32.2	9.0
ALL	4,091.8	3,439.6	383.6	209.3	59.3

Unit Cruise Design: DREAMER U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (33.61, 27.78 for some species) Measure/Count Plots	24.0	25.5	24	12	2

Unit Cruise Summary: DREAMER U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	34	70	2.9	0
RA	2	2	0.1	0
ALL	36	72	3.0	0

Unit Cruise Statistics (Cut + Leave Trees): DREAMER U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	140.4	58.1	11.9	177.1	16.3	2.8	24,869	60.3	12.2
RA	3.4	489.9	100.0	90.4	2.5	1.8	308	489.9	100.0
ALL	143.8	53.6	10.9	175.1	19.7	3.3	25,177	57.1	11.4

Unit Summary: DREAMER U2

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	34	ALL	24.6	79	100	24,869	3.3	42.5	140.4	28.3	4,025.7	596.9
RA	LIVE	CUT	2	ALL	16.5	55	67	308	4.4	2.3	3.4	0.8	66.1	7.4
ALL	LIVE	CUT	36	ALL	24.3	78	98	25,177	3.3	44.8	143.8	29.1	4,091.8	604.3
ALL	ALL	ALL	36	ALL	24.3	78	98	25,177	3.3	44.8	143.8	29.1	4,091.8	604.3

Unit Stand Table: DREAMER U2

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	1	8.0	41	49	292	0.0	11.3	3.9	1.4	44.5	7.0
DF	14	LIVE	CUT	1	13.0	78	99	491	0.0	4.0	3.7	1.0	95.6	11.8
DF	22	LIVE	CUT	2	22.0	91	116	1,131	2.0	2.8	7.5	1.6	219.8	27.1
DF	24	LIVE	CUT	2	23.5	89	113	1,239	1.7	2.5	7.4	1.5	211.4	29.7
DF	26	LIVE	CUT	3	25.6	94	120	1,892	2.1	3.2	11.4	2.2	333.6	45.4
DF	28	LIVE	CUT	4	27.4	92	117	3,253	1.9	4.6	18.8	3.6	548.8	78.1
DF	30	LIVE	CUT	4	29.8	92	118	3,500	0.0	3.9	18.9	3.5	541.9	84.0
DF	32	LIVE	CUT	4	31.7	95	121	2,730	3.1	2.8	15.2	2.7	447.5	65.5
DF	34	LIVE	CUT	7	33.4	100	128	5,789	6.3	5.0	30.4	5.3	895.9	138.9
DF	36	LIVE	CUT	1	36.0	89	113	620	5.4	0.6	3.9	0.7	104.7	14.9
DF	38	LIVE	CUT	2	37.0	93	118	1,509	1.9	1.0	7.6	1.2	218.2	36.2
DF	42	LIVE	CUT	1	41.0	98	125	743	7.1	0.4	3.8	0.6	115.4	17.8
DF	44	LIVE	CUT	2	43.5	108	139	1,679	3.1	0.8	7.9	1.2	248.2	40.3
RA	16	LIVE	CUT	1	16.0	58	71	151	6.8	1.2	1.7	0.4	36.2	3.6
RA	18	LIVE	CUT	1	17.0	52	63	157	2.0	1.1	1.7	0.4	29.9	3.8

Unit Log Grade Summary: DREAMER U2

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	17.6	37.0	21,883	2.1	3,439.6	525.2
DF	LIVE	3 SAW	10.0	32.0	1,842	2.5	358.7	44.2
DF	LIVE	4 SAW	8.0	20.0	827	0.0	177.2	19.8
DF	LIVE	CULL	7.8	3.0	0	100.0	0.0	0.0
DF	LIVE	UTILITY	6.3	23.0	317	44.6	50.3	7.6
RA	LIVE	3 SAW	11.1	30.0	135	0.0	24.9	3.2
RA	LIVE	4 SAW	9.0	40.0	131	7.8	32.2	3.1
RA	LIVE	CULL	5.4	3.0	0	100.0	0.0	0.0
RA	LIVE	UTILITY	5.8	16.0	42	0.0	9.0	1.0

Unit Log Sort Summary: DREAMER U2

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	7.8	3.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	13.6	32.0	24,552	2.1	3,975.4	589.2
DF	LIVE	Pulp	6.3	23.0	317	44.6	50.3	7.6
RA	LIVE	Cull	5.4	3.0	0	100.0	0.0	0.0
RA	LIVE	Domestic	10.0	35.0	266	4.0	57.1	6.4
RA	LIVE	Pulp	5.8	16.0	42	0.0	9.0	1.0

Unit Log Grade x Sort Summary: DREAMER U2

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	17.6	37.0	21,883	2.1	3,439.6	525.2
DF	LIVE	3 SAW	Domestic	10.0	32.0	1,842	2.5	358.7	44.2
DF	LIVE	4 SAW	Domestic	8.0	20.0	827	0.0	177.2	19.8
DF	LIVE	CULL	Cull	7.8	3.0	0	100.0	0.0	0.0
DF	LIVE	UTILITY	Pulp	6.3	23.0	317	44.6	50.3	7.6
RA	LIVE	3 SAW	Domestic	11.1	30.0	135	0.0	24.9	3.2
RA	LIVE	4 SAW	Domestic	9.0	40.0	131	7.8	32.2	3.1
RA	LIVE	CULL	Cull	5.4	3.0	0	100.0	0.0	0.0
RA	LIVE	UTILITY	Pulp	5.8	16.0	42	0.0	9.0	1.0

Unit Log Grade x Diameter Bin Summary: DREAMER U2

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	UTILITY	5.3	24.0	317	0.0	50.3	7.6
DF	5 - 8	LIVE	CULL	6.8	1.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	7.0	22.0	438	0.0	92.6	10.5
DF	5 - 8	LIVE	3 SAW	8.2	40.0	543	0.0	126.0	13.0
DF	9 - 11	LIVE	4 SAW	9.7	18.0	389	0.0	84.6	9.3
DF	9 - 11	LIVE	CULL	10.1	7.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	3 SAW	10.9	28.0	1,128	3.3	201.0	27.1
DF	12 - 14	LIVE	3 SAW	12.0	36.0	171	5.1	31.6	4.1
DF	12 - 14	LIVE	2 SAW	13.9	36.0	3,923	1.9	714.1	94.1
DF	15 - 19	LIVE	2 SAW	17.3	37.0	6,537	1.3	1,048.8	156.9
DF	20+	LIVE	2 SAW	22.4	38.0	11,423	2.7	1,676.7	274.2
DF	20+	LIVE	UTILITY	25.3	14.0	0	100.0	0.0	0.0
RA	5 - 8	LIVE	CULL	5.4	3.0	0	100.0	0.0	0.0
RA	5 - 8	LIVE	UTILITY	5.8	16.0	42	0.0	9.0	1.0
RA	9 - 11	LIVE	4 SAW	9.0	40.0	131	7.8	32.2	3.1

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
RA	9 - 11	LIVE	3 SAW	11.1	30.0	135	0.0	24.9	3.2

Unit Log Sort x Diameter Bin Summary: DREAMER U2

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Pulp	5.3	24.0	317	0.0	50.3	7.6
DF	5 - 8	LIVE	Cull	6.8	1.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	7.4	28.0	981	0.0	218.6	23.5
DF	9 - 11	LIVE	Cull	10.1	7.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	Domestic	10.4	23.0	1,517	2.5	285.6	36.4
DF	12 - 14	LIVE	Domestic	13.8	36.0	4,094	2.0	745.7	98.2
DF	15 - 19	LIVE	Domestic	17.3	37.0	6,537	1.3	1,048.8	156.9
DF	20+	LIVE	Domestic	22.4	38.0	11,423	2.7	1,676.7	274.2
DF	20+	LIVE	Pulp	25.3	14.0	0	100.0	0.0	0.0
RA	5 - 8	LIVE	Cull	5.4	3.0	0	100.0	0.0	0.0
RA	5 - 8	LIVE	Pulp	5.8	16.0	42	0.0	9.0	1.0
RA	9 - 11	LIVE	Domestic	10.0	35.0	266	4.0	57.1	6.4

Cruise Unit Report DREAMER U3

Unit Sale Notice Volume (MBF): DREAMER U3

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	20.1			233.6	152.3	61.3	20.0
ALL	20.1			233.6	152.3	61.3	20.0

Unit Sale Notice Weight (tons): DREAMER U3

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	1,593.7	940.5	475.9	177.3
ALL	1,593.7	940.5	475.9	177.3

Unit Cruise Design: DREAMER U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (33.61) Measure/Count Plots	10.0	10.1	13	7	1

Unit Cruise Summary: DREAMER U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	23	38	2.9	0
ALL	23	38	2.9	0

Unit Cruise Statistics (Cut + Leave Trees): DREAMER U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	133.0	52.6	14.6	175.7	20.4	4.2	23,359	56.4	15.2
ALL	133.0	52.6	14.6	175.7	20.4	4.2	23,359	56.4	15.2

Unit Summary: DREAMER U3

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	23	ALL	20.1	83	105	23,359	0.6	60.3	133.0	29.7	1,593.7	233.6
ALL	LIVE	CUT	23	ALL	20.1	83	105	23,359	0.6	60.3	133.0	29.7	1,593.7	233.6

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
ALL	ALL	ALL	23	ALL	20.1	83	105	23,359	0.6	60.3	133.0	29.7	1,593.7	233.6

Unit Stand Table: DREAMER U3

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	10	LIVE	CUT	1	10.0	55	68	456	4.4	10.3	5.6	1.8	42.3	4.6
DF	14	LIVE	CUT	2	13.0	86	109	1,775	0.0	12.0	11.0	3.1	134.0	17.7
DF	16	LIVE	CUT	1	16.0	65	81	580	0.0	4.4	6.2	1.5	53.1	5.8
DF	18	LIVE	CUT	1	17.0	80	101	697	2.1	3.8	6.1	1.5	62.7	7.0
DF	20	LIVE	CUT	2	19.5	93	119	2,025	0.0	5.3	11.0	2.5	144.5	20.2
DF	22	LIVE	CUT	2	21.5	95	121	2,135	0.0	4.4	11.0	2.4	147.7	21.4
DF	24	LIVE	CUT	2	23.5	93	118	2,166	0.0	3.8	11.4	2.4	141.8	21.7
DF	26	LIVE	CUT	4	25.3	96	122	4,245	0.9	6.6	23.1	4.6	290.4	42.4
DF	28	LIVE	CUT	2	27.5	95	121	2,163	0.0	2.8	11.6	2.2	144.8	21.6
DF	30	LIVE	CUT	2	29.5	92	117	2,214	0.0	2.5	11.7	2.2	139.6	22.1
DF	32	LIVE	CUT	1	31.0	105	134	1,288	0.0	1.1	5.6	1.0	79.8	12.9
DF	34	LIVE	CUT	1	33.0	90	115	1,124	4.9	1.0	6.2	1.1	60.8	11.2
DF	38	LIVE	CUT	1	38.0	100	128	1,188	0.0	0.8	6.2	1.0	74.7	11.9
DF	40	LIVE	CUT	1	39.0	105	134	1,305	0.0	0.7	6.2	1.0	77.6	13.1

Unit Log Grade Summary: DREAMER U3

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	17.3	36.0	15,233	0.2	940.5	152.3
DF	LIVE	3 SAW	10.4	37.0	6,128	0.2	475.9	61.3
DF	LIVE	4 SAW	6.3	28.0	1,999	0.0	177.3	20.0
DF	LIVE	CULL	6.3	2.0	0	100.0	0.0	0.0

Unit Log Sort Summary: DREAMER U3

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	6.3	2.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	9.8	31.0	15,284	0.2	1,039.4	152.8
DF	LIVE	HQ-B	12.3	39.0	8,075	0.2	554.3	80.7

Unit Log Grade x Sort Summary: DREAMER U3

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	18.6	36.0	9,463	0.4	572.7	94.6
DF	LIVE	2 SAW	HQ-B	15.9	37.0	5,769	0.0	367.8	57.7
DF	LIVE	3 SAW	Domestic	11.2	34.0	3,822	0.0	289.3	38.2
DF	LIVE	3 SAW	HQ-B	9.3	40.0	2,306	0.6	186.6	23.1
DF	LIVE	4 SAW	Domestic	6.3	28.0	1,999	0.0	177.3	20.0
DF	LIVE	CULL	Cull	6.3	2.0	0	100.0	0.0	0.0

Unit Log Grade x Diameter Bin Summary: DREAMER U3

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	CULL	5.1	2.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	6.1	29.0	1,843	0.0	163.7	18.4
DF	5 - 8	LIVE	3 SAW	8.7	40.0	552	0.0	46.5	5.5
DF	9 - 11	LIVE	4 SAW	9.2	17.0	155	0.0	13.7	1.6
DF	9 - 11	LIVE	3 SAW	10.1	36.0	3,826	0.4	298.3	38.3
DF	12 - 14	LIVE	3 SAW	12.6	36.0	1,750	0.0	131.2	17.5
DF	12 - 14	LIVE	2 SAW	14.1	37.0	2,606	0.0	179.5	26.1
DF	15 - 19	LIVE	2 SAW	17.3	37.0	7,542	0.5	475.8	75.4
DF	15 - 19	LIVE	CULL	19.0	4.0	0	100.0	0.0	0.0
DF	20+	LIVE	2 SAW	22.3	34.0	5,085	0.0	285.2	50.9

Unit Log Sort x Diameter Bin Summary: DREAMER U3

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Cull	5.1	2.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	6.1	29.0	1,843	0.0	163.7	18.4
DF	5 - 8	LIVE	HQ-B	8.7	40.0	552	0.0	46.5	5.5
DF	9 - 11	LIVE	HQ-B	9.6	40.0	1,754	0.8	140.1	17.5
DF	9 - 11	LIVE	Domestic	10.2	30.0	2,227	0.0	171.8	22.3
DF	12 - 14	LIVE	Domestic	12.8	36.0	2,347	0.0	173.2	23.5
DF	12 - 14	LIVE	HQ-B	14.2	37.0	2,008	0.0	137.5	20.1
DF	15 - 19	LIVE	Domestic	17.2	37.0	3,781	1.0	245.5	37.8
DF	15 - 19	LIVE	HQ-B	17.4	37.0	3,761	0.0	230.2	37.6
DF	15 - 19	LIVE	Cull	19.0	4.0	0	100.0	0.0	0.0
DF	20+	LIVE	Domestic	22.3	34.0	5,085	0.0	285.2	50.9

Cruise Unit Report DREAMER U4

Unit Sale Notice Volume (MBF): DREAMER U4

Sp	QMD	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	16.5			755.1	475.2	194.8	81.6	3.4
RA	11.9			6.9			6.9	
MA	12.0			3.4			2.6	0.9
ALL	16.1			765.5	475.2	194.8	91.1	4.3

Unit Sale Notice Weight (tons): DREAMER U4

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
DF	5,431.9	3,165.8	1,548.7	701.0	16.3
RA	63.4			63.4	
MA	29.8			25.5	4.3
ALL	5,525.1	3,165.8	1,548.7	789.9	20.6

Unit Cruise Design: DREAMER U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (27.78) Measure/Count Plots	31.0	33.0	32	17	0

Unit Cruise Summary: DREAMER U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	54	126	3.9	0
RA	2	2	0.1	0
MA	1	1	0.0	0
ALL	57	129	4.0	0

Unit Cruise Statistics (Cut + Leave Trees): DREAMER U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	154.3	54.6	9.6	157.8	31.9	4.3	24,358	63.2	10.6
RA	2.6	393.5	69.6	88.0	5.0	3.6	224	393.6	69.7

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
MA	1.4	565.7	100.0	81.5	0.0	0.0	111	565.7	100.0
ALL	158.2	52.8	9.3	156.0	33.0	4.4	24,693	62.3	10.3

Unit Summary: DREAMER U4

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	54	ALL	16.5	70	87	24,358	2.6	103.9	154.3	38.0	5,431.9	755.1
MA	LIVE	CUT	1	ALL	12.0	53	64	111	0.0	1.7	1.4	0.4	29.8	3.4
RA	LIVE	CUT	2	ALL	11.9	55	67	224	7.4	3.3	2.6	0.7	63.4	7.0
ALL	LIVE	CUT	57	ALL	16.3	69	86	24,693	2.6	108.9	158.3	39.1	5,525.1	765.5
ALL	ALL	ALL	57	ALL	16.3	69	86	24,693	2.6	108.9	158.3	39.1	5,525.1	765.5

Unit Stand Table: DREAMER U4

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	2	7.5	49	59	451	2.3	19.9	6.0	2.2	88.4	14.0
DF	10	LIVE	CUT	6	9.8	58	72	1,620	6.9	32.0	16.8	5.4	381.2	50.2
DF	14	LIVE	CUT	4	14.0	57	71	896	1.8	11.0	11.8	3.2	290.6	27.8
DF	16	LIVE	CUT	5	15.2	73	91	1,711	2.4	11.2	14.1	3.6	444.9	53.1
DF	18	LIVE	CUT	2	17.5	83	105	802	0.9	3.4	5.6	1.3	201.0	24.9
DF	20	LIVE	CUT	2	19.5	93	119	951	0.0	2.7	5.6	1.3	215.5	29.5
DF	22	LIVE	CUT	5	21.8	97	123	2,569	0.7	5.4	14.0	3.0	563.0	79.6
DF	24	LIVE	CUT	5	23.6	97	124	2,491	1.7	4.8	14.5	3.0	555.3	77.2
DF	26	LIVE	CUT	5	25.2	96	122	2,537	1.8	4.1	14.1	2.8	551.5	78.6
DF	28	LIVE	CUT	5	27.4	111	143	2,884	4.3	3.5	14.3	2.7	620.4	89.4
DF	30	LIVE	CUT	6	29.7	100	128	3,264	2.2	3.6	17.3	3.2	687.3	101.2
DF	32	LIVE	CUT	3	31.7	98	126	1,632	2.5	1.6	8.6	1.5	338.6	50.6
DF	34	LIVE	CUT	2	33.5	121	155	1,342	6.0	0.9	5.8	1.0	262.3	41.6
DF	36	LIVE	CUT	1	35.0	106	135	653	1.6	0.4	2.8	0.5	121.7	20.2
DF	40	LIVE	CUT	1	39.0	96	123	555	1.4	0.4	3.0	0.5	110.2	17.2
MA	12	LIVE	CUT	1	12.0	53	64	111	0.0	1.8	1.4	0.4	29.8	3.4
RA	12	LIVE	CUT	1	11.0	49	59	108	0.0	2.0	1.3	0.4	28.0	3.3
RA	14	LIVE	CUT	1	13.0	64	78	116	13.4	1.4	1.3	0.4	35.4	3.6

Unit Log Grade Summary: DREAMER U4

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	16.6	39.0	15,330	2.2	3,165.8	475.2
DF	LIVE	3 SAW	9.1	37.0	6,284	0.9	1,548.7	194.8
DF	LIVE	4 SAW	5.7	27.0	2,633	0.9	701.0	81.6
DF	LIVE	CULL	6.6	4.0	0	100.0	0.0	0.0
DF	LIVE	UTILITY	5.0	13.0	111	0.0	16.3	3.4
MA	LIVE	4 SAW	7.6	30.0	83	0.0	25.5	2.6
MA	LIVE	UTILITY	5.1	15.0	28	0.0	4.3	0.9
RA	LIVE	4 SAW	6.6	24.0	224	7.4	63.4	6.9

Unit Log Sort Summary: DREAMER U4

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	6.6	4.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	8.8	32.0	20,722	1.9	4,651.4	642.4
DF	LIVE	HQ-B	12.8	39.0	3,526	0.7	764.2	109.3
DF	LIVE	Pulp	5.0	13.0	111	0.0	16.3	3.4
MA	LIVE	Domestic	7.6	30.0	83	0.0	25.5	2.6
MA	LIVE	Pulp	5.1	15.0	28	0.0	4.3	0.9
RA	LIVE	Domestic	6.6	24.0	224	7.4	63.4	6.9

Unit Log Grade x Sort Summary: DREAMER U4

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	17.2	39.0	12,559	2.5	2,577.6	389.3
DF	LIVE	2 SAW	HQ-B	14.7	39.0	2,771	0.7	588.2	85.9
DF	LIVE	3 SAW	Domestic	9.1	37.0	5,530	0.9	1,372.7	171.4
DF	LIVE	3 SAW	HQ-B	9.8	39.0	754	1.0	176.0	23.4
DF	LIVE	4 SAW	Domestic	5.7	27.0	2,633	0.9	701.0	81.6
DF	LIVE	CULL	Cull	6.6	4.0	0	100.0	0.0	0.0
DF	LIVE	UTILITY	Pulp	5.0	13.0	111	0.0	16.3	3.4
MA	LIVE	4 SAW	Domestic	7.6	30.0	83	0.0	25.5	2.6
MA	LIVE	UTILITY	Pulp	5.1	15.0	28	0.0	4.3	0.9
RA	LIVE	4 SAW	Domestic	6.6	24.0	224	7.4	63.4	6.9

Unit Log Grade x Diameter Bin Summary: DREAMER U4

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	UTILITY	5.0	13.0	111	0.0	16.3	3.4
DF	5 - 8	LIVE	CULL	5.2	4.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	5.6	28.0	2,507	1.0	665.2	77.7
DF	5 - 8	LIVE	3 SAW	7.5	37.0	1,796	0.6	500.8	55.7
DF	9 - 11	LIVE	CULL	9.3	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	4 SAW	9.7	18.0	126	0.0	35.8	3.9
DF	9 - 11	LIVE	3 SAW	10.3	37.0	4,042	1.2	954.5	125.3
DF	12 - 14	LIVE	3 SAW	13.6	38.0	301	0.0	65.9	9.3
DF	12 - 14	LIVE	2 SAW	13.8	39.0	3,414	1.1	775.7	105.8
DF	15 - 19	LIVE	3 SAW	15.1	32.0	145	0.0	27.6	4.5
DF	15 - 19	LIVE	2 SAW	17.1	39.0	7,671	2.4	1,575.2	237.8
DF	15 - 19	LIVE	CULL	18.2	5.0	0	100.0	0.0	0.0
DF	20+	LIVE	2 SAW	21.9	39.0	4,245	2.6	815.0	131.6
MA	5 - 8	LIVE	UTILITY	5.1	15.0	28	0.0	4.3	0.9
MA	5 - 8	LIVE	4 SAW	7.6	30.0	83	0.0	25.5	2.6
RA	5 - 8	LIVE	4 SAW	6.6	24.0	224	7.4	63.4	6.9

Unit Log Sort x Diameter Bin Summary: DREAMER U4

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Pulp	5.0	13.0	111	0.0	16.3	3.4
DF	5 - 8	LIVE	Cull	5.2	4.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	6.0	30.0	4,175	0.8	1,134.6	129.4
DF	5 - 8	LIVE	HQ-B	8.4	36.0	128	0.0	31.4	4.0
DF	9 - 11	LIVE	Cull	9.3	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	Domestic	10.2	35.0	3,541	1.1	845.7	109.8
DF	9 - 11	LIVE	HQ-B	10.3	40.0	626	1.1	144.5	19.4
DF	12 - 14	LIVE	HQ-B	13.4	38.0	1,259	0.0	285.1	39.0
DF	12 - 14	LIVE	Domestic	14.0	39.0	2,456	1.6	556.5	76.1
DF	15 - 19	LIVE	HQ-B	16.0	40.0	1,105	1.7	226.0	34.3
DF	15 - 19	LIVE	Domestic	17.2	38.0	6,712	2.5	1,376.8	208.1
DF	15 - 19	LIVE	Cull	18.2	5.0	0	100.0	0.0	0.0
DF	20+	LIVE	HQ-B	20.9	40.0	408	0.0	77.2	12.6
DF	20+	LIVE	Domestic	22.0	39.0	3,837	2.8	737.8	119.0
MA	5 - 8	LIVE	Pulp	5.1	15.0	28	0.0	4.3	0.9
MA	5 - 8	LIVE	Domestic	7.6	30.0	83	0.0	25.5	2.6
RA	5 - 8	LIVE	Domestic	6.6	24.0	224	7.4	63.4	6.9

Cruise Unit Report DREAMER U5

Unit Sale Notice Volume (MBF): DREAMER U5

Sp	QMD	Rings/In	Age	MBF Volume by Grade				
				All	Spec Mill	2 Saw	3 Saw	4 Saw
DF	19.5			408.8	32.8	250.5	101.0	24.5
ALL	19.5			408.8	32.8	250.5	101.0	24.5

Unit Sale Notice Weight (tons): DREAMER U5

Sp	Tons by Grade				
	All	Spec Mill	2 Saw	3 Saw	4 Saw
DF	2,718.7	189.3	1,568.7	758.5	202.2
ALL	2,718.7	189.3	1,568.7	758.5	202.2

Unit Cruise Design: DREAMER U5

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (33.61) Measure/Count Plots	11.0	13.0	20	10	1

Unit Cruise Summary: DREAMER U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	46	85	4.3	0
ALL	46	85	4.3	0

Unit Cruise Statistics (Cut + Leave Trees): DREAMER U5

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	188.6	43.8	9.8	197.0	21.0	3.1	37,161	48.6	10.3
ALL	188.6	43.8	9.8	197.0	21.0	3.1	37,161	48.6	10.3

Unit Summary: DREAMER U5

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	46	ALL	19.5	90	115	37,161	1.3	91.0	188.6	42.7	2,718.7	408.8
ALL	LIVE	CUT	46	ALL	19.5	90	115	37,161	1.3	91.0	188.6	42.7	2,718.7	408.8

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
ALL	ALL	ALL	46	ALL	19.5	90	115	37,161	1.3	91.0	188.6	42.7	2,718.7	408.8

Unit Stand Table: DREAMER U5

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	10	LIVE	CUT	1	9.0	55	68	392	0.0	8.9	3.9	1.3	31.4	4.3
DF	12	LIVE	CUT	2	12.0	67	85	939	3.7	10.3	8.1	2.3	81.9	10.3
DF	14	LIVE	CUT	2	13.5	85	107	1,140	7.4	7.8	7.8	2.1	92.3	12.5
DF	16	LIVE	CUT	5	15.0	92	118	3,474	3.1	15.7	19.3	5.0	269.3	38.2
DF	18	LIVE	CUT	2	18.0	93	119	1,252	2.7	4.5	7.9	1.9	108.5	13.8
DF	20	LIVE	CUT	3	19.0	96	122	2,916	0.4	8.2	16.1	3.7	226.1	32.1
DF	22	LIVE	CUT	5	21.4	99	126	3,871	0.0	8.0	19.9	4.3	292.6	42.6
DF	24	LIVE	CUT	7	23.9	105	135	5,946	1.3	9.1	28.3	5.8	430.2	65.4
DF	26	LIVE	CUT	4	25.7	103	131	3,310	0.0	4.4	16.1	3.2	240.7	36.4
DF	28	LIVE	CUT	6	27.7	108	138	5,441	0.6	5.8	24.4	4.6	374.5	59.9
DF	30	LIVE	CUT	6	29.8	109	140	5,638	0.3	5.0	24.4	4.5	378.4	62.0
DF	32	LIVE	CUT	2	31.0	112	143	1,883	2.0	1.6	8.3	1.5	127.9	20.7
DF	34	LIVE	CUT	1	34.0	115	147	959	1.5	0.7	4.2	0.7	64.8	10.5

Unit Log Grade Summary: DREAMER U5

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	15.8	39.0	22,773	0.7	1,568.7	250.5
DF	LIVE	3 SAW	9.4	34.0	9,178	1.3	758.5	101.0
DF	LIVE	4 SAW	6.1	24.0	2,227	2.0	202.2	24.5
DF	LIVE	CULL	8.9	4.0	0	100.0	0.0	0.0
DF	LIVE	SPECIAL MILL	17.5	40.0	2,983	0.0	189.3	32.8

Unit Log Sort Summary: DREAMER U5

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	8.9	4.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	8.6	30.0	15,938	1.1	1,270.6	175.3
DF	LIVE	HQ-A	17.5	40.0	2,983	0.0	189.3	32.8
DF	LIVE	HQ-B	13.6	37.0	18,240	0.9	1,258.8	200.6

Unit Log Grade x Sort Summary: DREAMER U5

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	14.8	40.0	7,919	1.2	574.5	87.1
DF	LIVE	2 SAW	HQ-B	16.5	39.0	14,854	0.5	994.2	163.4
DF	LIVE	3 SAW	Domestic	9.0	34.0	5,793	0.5	493.9	63.7
DF	LIVE	3 SAW	HQ-B	10.1	35.0	3,385	2.6	264.6	37.2
DF	LIVE	4 SAW	Domestic	6.1	24.0	2,227	2.0	202.2	24.5
DF	LIVE	CULL	Cull	8.9	4.0	0	100.0	0.0	0.0
DF	LIVE	SPECIAL MILL	HQ-A	17.5	40.0	2,983	0.0	189.3	32.8

Unit Log Grade x Diameter Bin Summary: DREAMER U5

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	6.1	24.0	2,194	2.0	198.6	24.1
DF	5 - 8	LIVE	CULL	6.7	6.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	3 SAW	7.6	36.0	2,052	0.0	179.8	22.6
DF	9 - 11	LIVE	4 SAW	9.7	18.0	33	0.0	3.6	0.4
DF	9 - 11	LIVE	CULL	9.7	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	3 SAW	10.2	34.0	6,737	1.6	547.8	74.1
DF	12 - 14	LIVE	CULL	12.5	2.0	0	100.0	0.0	0.0
DF	12 - 14	LIVE	3 SAW	12.6	35.0	390	2.8	30.9	4.3
DF	12 - 14	LIVE	2 SAW	13.6	39.0	7,810	0.5	604.9	85.9
DF	15 - 19	LIVE	2 SAW	17.2	40.0	8,162	1.2	546.2	89.8
DF	15 - 19	LIVE	SPECIAL MILL	17.5	40.0	2,983	0.0	189.3	32.8
DF	20+	LIVE	2 SAW	21.1	40.0	6,801	0.4	417.6	74.8

Unit Log Sort x Diameter Bin Summary: DREAMER U5

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.4	27.0	3,794	1.2	341.4	41.7
DF	5 - 8	LIVE	Cull	6.7	6.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	HQ-B	8.2	40.0	451	0.0	36.9	5.0
DF	9 - 11	LIVE	Cull	9.7	3.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	Domestic	9.9	33.0	3,836	0.5	323.8	42.2
DF	9 - 11	LIVE	HQ-B	10.6	34.0	2,934	3.0	227.6	32.3
DF	12 - 14	LIVE	Cull	12.5	2.0	0	100.0	0.0	0.0
DF	12 - 14	LIVE	Domestic	13.6	39.0	4,657	0.5	355.7	51.2
DF	12 - 14	LIVE	HQ-B	13.6	37.0	3,542	0.7	280.1	39.0
DF	15 - 19	LIVE	Domestic	16.8	40.0	3,082	2.2	212.2	33.9

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	15 - 19	LIVE	HQ-B	17.4	40.0	5,080	0.6	334.0	55.9
DF	15 - 19	LIVE	HQ-A	17.5	40.0	2,983	0.0	189.3	32.8
DF	20+	LIVE	HQ-B	21.1	40.0	6,232	0.3	380.1	68.6
DF	20+	LIVE	Domestic	21.3	40.0	569	2.5	37.5	6.3



Forest Practices Application/Notification Notice of Decision

FPA/N No: 2937975

Effective Date: 8/11/2020

Expiration Date: 8/11/2023

Shut Down Zone 660

EARR Tax Credit: Eligible Non-eligible

Reference: Dreamer VRH; 30-100846

Decision

- Notification Accepted Operations shall not begin before the effective date.
- Approved This Forest Practices Application is subject to the conditions listed below.
- Disapproved This Forest Practices Application is disapproved for the reasons listed below.
- Closed Applicant has withdrawn the FPA/N.

FPA/N Classification

Class II Class III Class IVG Class IVS

Number of Years Granted on Multi-Year Request

4 years 5 years

Conditions on Approval/Reasons for Disapproval

No additional conditions.

Issued By: Geoff Crosby

Region: Pacific Cascade Region

Title: Forest Practices Forester

Date: 8/11/2020

Copies to: Landowner, Timber Owner and Operator

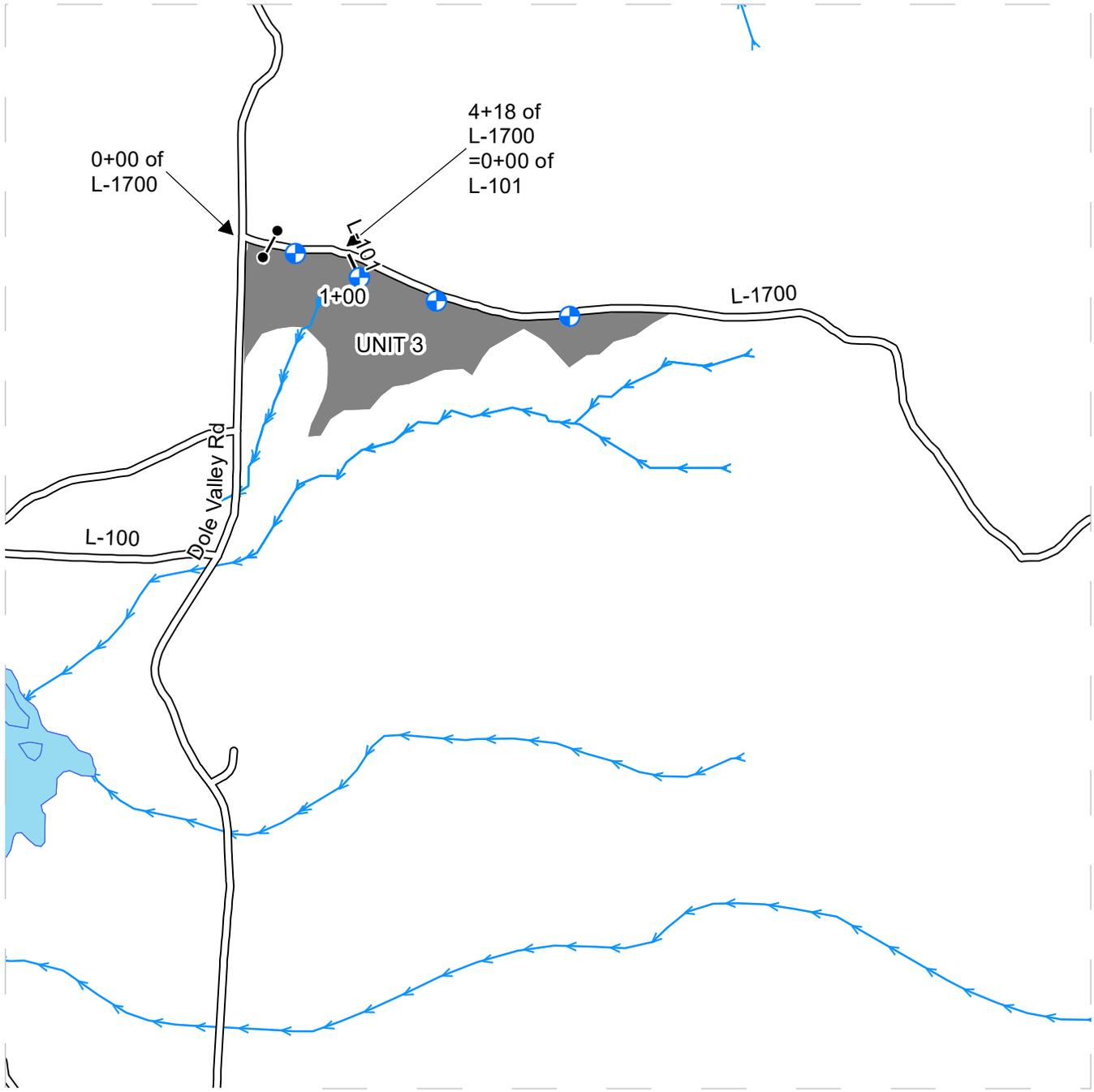
Issued in person: Landowner Timber Owner Operator

By: .

ROAD PLAN MAP

SALE NAME: DREAMER VRH
AGREEMENT#: 30-100846
TOWNSHIP(S): T4R4E
TRUST(S): Common School Indemnity(3), State Forest Transfer(1)

REGION: Pacific Cascade Region
COUNTY(S): CLARK
ELEVATION RGE: 840-1506



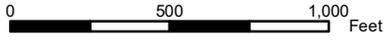
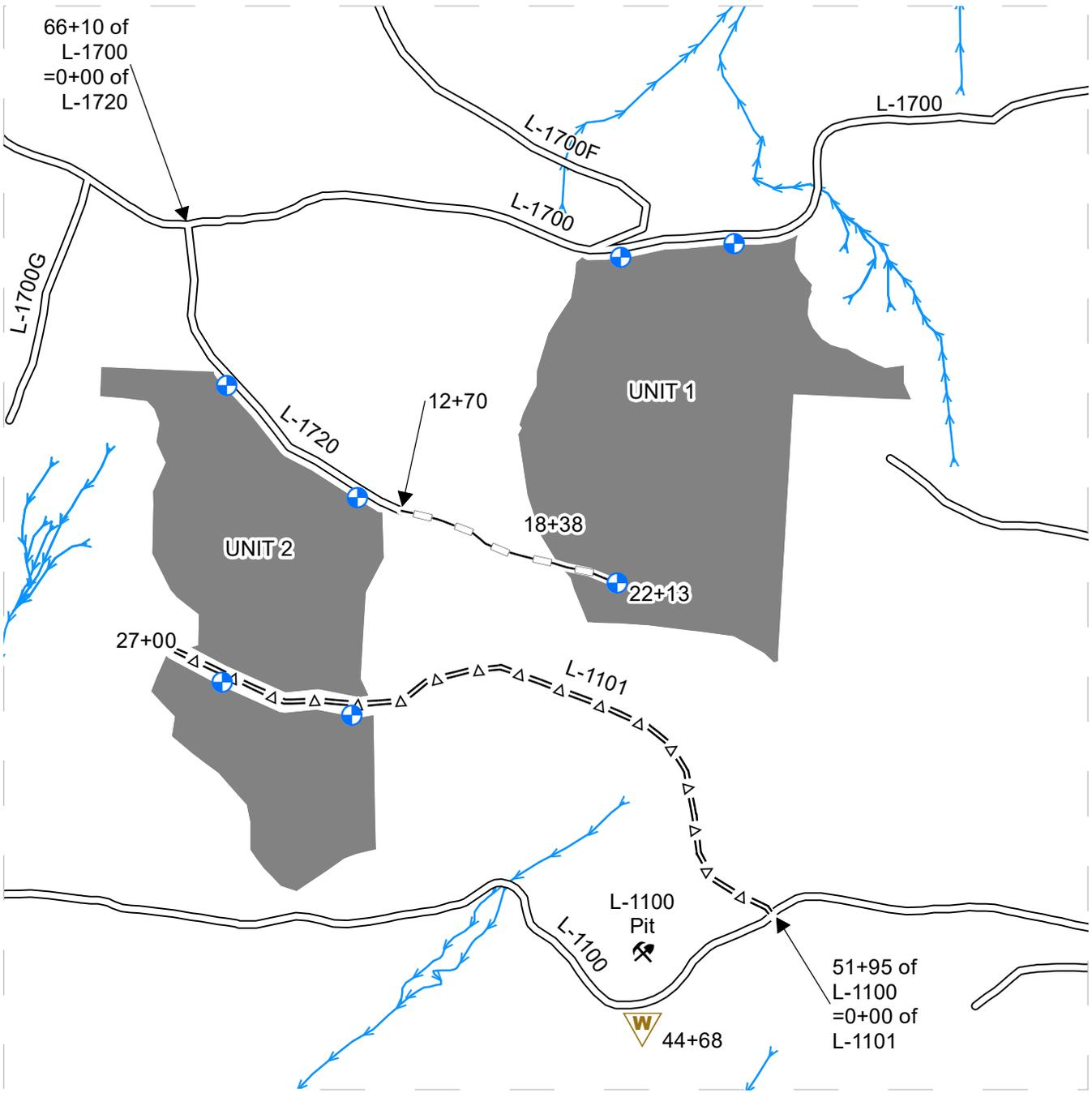
Existing Roads	Gate	Harvest Type
Optional Construction	Landing - Proposed	Streams



ROAD PLAN MAP

SALE NAME: DREAMER VRH
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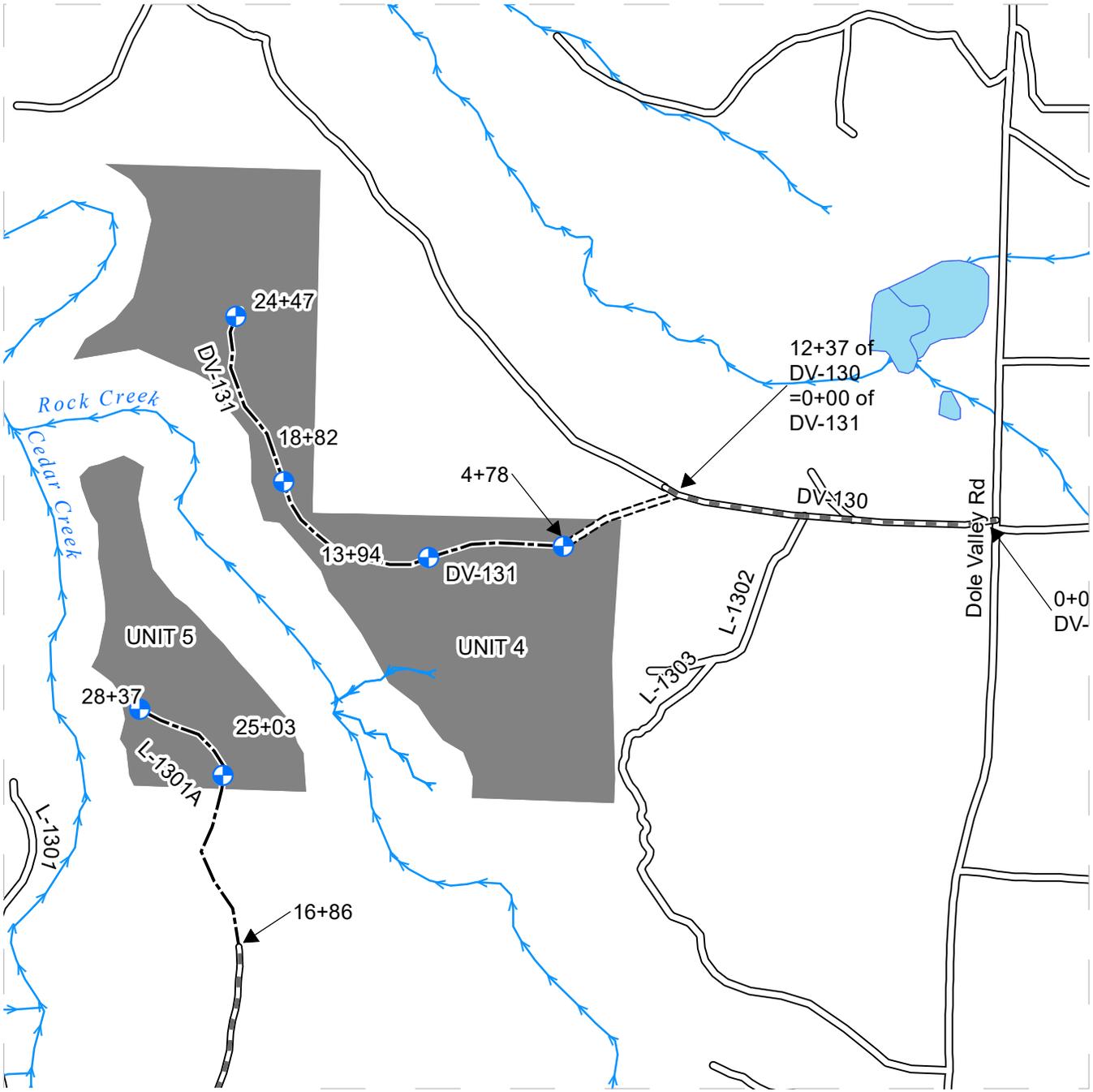
Existing Roads	Landing - Proposed	Harvest Type
Optional Pre-Haul Maintenance	Rock Pit	Streams
Optional Reconstruction	Waste Area	



ROAD PLAN MAP

SALE NAME: DREAMER VRH
AGREEMENT#: 30-100846
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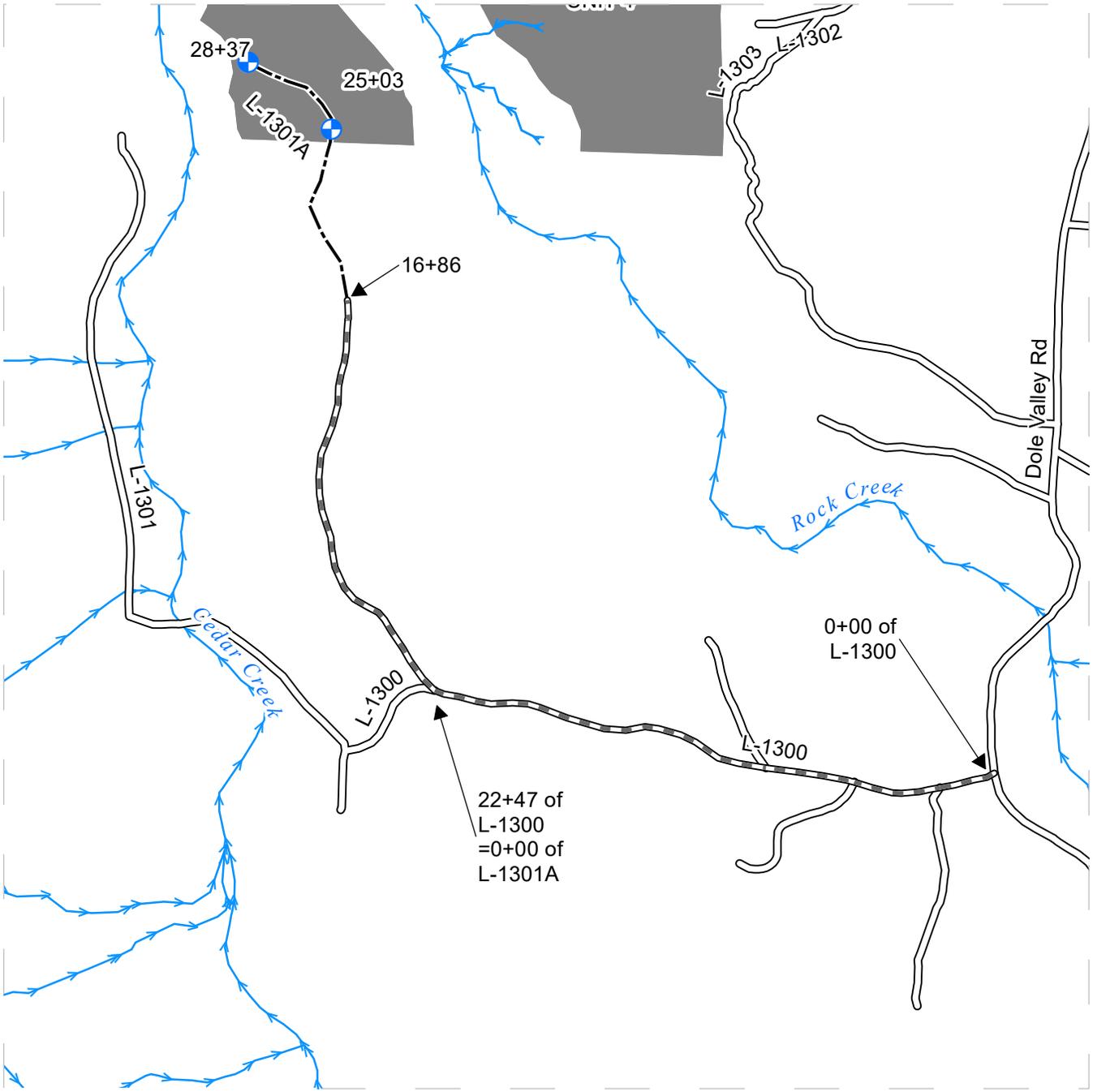
Existing Roads	Landing - Proposed	Harvest Type
Required Pre-Haul Maintenance		Streams
Required Construction		
Optional Construction		



ROAD PLAN MAP

SALE NAME: DREAMER VRH
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Existing Roads	Landing - Proposed	Harvest Type
Required Pre-Haul Maintenance		Streams
Optional Construction		



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

DREAMER VRH TIMBER SALE ROAD PLAN
CLARK COUNTY
YACOLT DISTRICT
PACIFIC CASCADE REGION

AGREEMENT NO.: 30-100846

STAFF ENGINEER: SCOTT HANNA

DRAWN & COMPILED BY: ALICIA COMPTON

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

Clauses in this road plan apply to all road related work, including landings and rock source development, unless otherwise noted.

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
DV-130	0+00 to 12+37	maintenance
DV-131	0+00 to 4+78	construction
L-1300	0+00 to 22+47	maintenance
L-1301A	0+00 to 16+86	maintenance

0-3 OPTIONAL ROADS

The specified work on the following roads is not required. Any optional roads built by the Purchaser must meet all the specifications in the road plan.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
DV-131	4+78 to 24+47	construction
L-101	0+00 to 1+00	construction
L-1101	0+00 to 27+00	maintenance
L-1301A	16+86 to 28+37	construction
L-1720	12+70 to 22+13	reconstruction

0-4 CONSTRUCTION

Construction includes, but is not limited to the following: clearing and grubbing; waste and debris disposal; excavation and embankment to sub-grade; acquisition and installation of drainage structures; shaping and compaction of subgrade; turnout, turnaround and landing construction; manufacture, application and compaction of rock; acquisition and application of erosion control materials.

0-5 RECONSTRUCTION

This project includes, but is not limited to the following reconstruction requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
L-1720	12+70 to 22+13	Clearing and grubbing; waste and debris disposal; excavation to sub-grade; grade, shape and compact subgrade; acquisition and installation of drainage structures; manufacture, application and compaction of rock; acquisition and application of erosion control materials.

0-6 PRE-HAUL MAINTENANCE

This project includes, but is not limited to the following pre-haul maintenance requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
DV-130	0+00 to 12+37	Grade, shape and compact existing surface; manufacture, application and compaction of rock.
L-1101	0+00 to 27+00	Remove barrier; brush.
L-1300	0+00 to 22+47	Grade, shape and compact existing surface prior to spot patching; manufacture, application and compaction of spot patch rock.
L-1301A	0+00 to 16+86	

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 POST-HAUL MAINTENANCE.

0-10 ABANDONMENT

This project includes abandonment listed in Clause 9-21 ROAD ABANDONMENT.

0-12 DEVELOP ROCK SOURCE

Purchaser may develop an existing rock source. Rock source development will involve clearing, stripping, end haul and waste disposal, drilling, shooting and processing rock. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for any submitted plan that changes the scope of work or environmental condition from the original road plan.

1-2 UNFORESEEN CONDITIONS

Quantities established in this road plan are minimum acceptable values. Additional quantities required by the state due to unforeseen conditions, or Purchaser's choice of construction season or techniques will be at the Purchaser's expense. Unforeseen conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

1-3 ROAD DIMENSIONS

Purchaser shall perform road work in accordance with the dimensions shown on the TYPICAL SECTION SHEET and the specifications within this road plan.

1-4 ROAD TOLERANCES

Purchaser shall perform road work within the tolerances listed below. The tolerance class for each road is listed on the TYPICAL SECTION SHEET.

<u>Tolerance Class</u>	<u>A</u>	<u>B</u>	<u>C</u>
Road and Subgrade Width (feet)	+1.5	+1.5	+2.0
Subgrade Elevation (feet +/-)	0.5	1.0	2.0
Centerline alignment (feet lt./rt.)	1.0	1.5	3.0

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in the road plan will be resolved by giving the documents precedence in the following order:

1. Addenda.
2. Designs or Plans. On designs and plans, figured dimensions shall take precedence over scaled dimensions.
3. Road Plan Clauses.
4. Typical Section Sheet.
5. Standard Lists.
6. Standard Details.
7. Road Plan maps.

In case of any ambiguity or dispute over interpreting the road plan, the Contract Administrator’s or designee’s decision will be final.

1-7 TEMPORARY ROAD CLOSURE

Purchaser shall notify the Contract Administrator a minimum of 3 calendar days before the closure of any road.

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

Purchaser shall repair or replace all materials, roadway infrastructure, and road components damaged during road work or operation activities. The Contract Administrator will direct repairs and replacements. Repairs to structural materials must be made in accordance with the manufacturer’s recommendation, and may not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any cut ends, or damaged galvanized or aluminized coating on existing or new bridge components, culverts, downspouts, and flumes must be cleaned and treated with a minimum of two coats of zinc rich paint or cold galvanizing compound.

1-16 CONSTRUCTION STAKES SET BY STATE

Purchaser shall perform work on the following road(s) in accordance with the construction stakes and reference points set in the field for grade and alignment. Reconstruction of existing road grades must conform to the original location except where construction staked or designed.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
DV-131	0+00 to 24+47	centerline stakes and reference points
L-101	0+00 to 1+00	orange ribbon and reference points
L-1301A	16+86 to 28+37	orange ribbon and reference points
L-1720	12+70 to 22+13	centerline stakes and reference points

1-18 REFERENCE POINT DAMAGE

Purchaser shall reset reference points (RPs) that were moved or damaged at any time during construction to their original locations. Excavation and embankment may not proceed on road segments controlled by said RPs until Purchaser resets all moved or damaged RPs.

1-20 COMPLETE BY DATE

Purchaser shall complete pre-haul road work before the start of timber haul.

1-21 HAUL APPROVAL

Purchaser shall not use roads under this road plan for timber hauling without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 5 business days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Purchaser shall obtain written approval from the Contract Administrator upon completion of each of the following phases of road work:

- Subgrade construction with compaction
- Rock application with compaction
- Road abandonment with erosion control
- Pit development and closure

1-25 ACTIVITY TIMING RESTRICTION

The specified activities are not allowed during the listed closure period(s) unless authorized in writing by the Contract Administrator. Restrictions for hauling forest products are specified in contract clause H-130 HAULING SCHEDULE.

<u>Road</u>	<u>Stations</u>	<u>Activity</u>	<u>Closure Period</u>
DV-130	0+00 to 12+37	rock haul	October 1 to May 30
all other roads		all other road work	October 1 to April 30

On the following road(s), the operation of road construction equipment is not allowed on weekends or state recognized holidays, unless authorized in writing by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
DV-130	0+00 to 12+37
L-1300	0+00 to 22+47

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION or Contract Clause H-130, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan must be developed. All parties shall follow this plan.

1-29 SEDIMENT RESTRICTION

Purchaser shall not allow silt-bearing runoff to enter any streams.

1-30 CLOSURE TO PREVENT DAMAGE

In accordance with Contract Clause G-220 STATE SUSPENDS OPERATION, the Contract Administrator will suspend road work or hauling right-of-way timber, forest products, or rock under the following conditions:

- Wheel track rutting exceeds 6 inches on native surface roads.
- Surface or base stability problems persist.
- Weather is such that satisfactory results cannot be obtained in an area of operations.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

Operations must stop unless authority to continue working or hauling is granted in writing by the Contract Administrator. In the event that surface or base stability problems persist, Purchaser shall cease operations, or perform corrective maintenance or repairs, subject to specifications within this road plan. Before and during any suspension, Purchaser shall protect the work from damage or deterioration.

1-33 SNOW PLOWING RESTRICTION

Snowplowing will be allowed after the execution of a SNOW PLOWING AGREEMENT, which is available from the Contract Administrator upon request. Purchaser shall request a SNOW PLOWING AGREEMENT each time plowing occurs. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

Purchaser shall immediately remove any mud, dirt, rock, or other material tracked or spilled on to county roads and state highways.

If additional damage to the surface, signs, guardrails, etc. occurs then the damage will be repaired, at the Purchaser's expense, as directed by the Contract Administrator when authorized by the county or WSDOT.

1-43 ROAD WORK AROUND UTILITIES

Road work is in close proximity to a utility. Purchaser shall work in accordance with all applicable laws or rules concerning utilities. Purchaser is responsible for all notification, including “call before you dig”, and liabilities associated with the utilities and their rights-of-way. Purchaser shall notify the utility before starting road work.

<u>Road</u>	<u>Stations</u>	<u>Utility</u>
DV-130	0+00 to 12+37	buried utilities
L-1100	0+00 to 52+03	
L-1300	0+00 to 22+47	

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

Purchaser shall maintain all roads used under this contract in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS for the entire term of this contract. Maintenance is required even during periods of inactivity.

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

Purchaser shall perform maintenance on roads listed in Contract Clause C-050 PURCHASER ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

Purchaser may be required to perform maintenance on roads listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER as directed by the Contract Administrator. Purchaser shall maintain roads in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain the following road(s) in a condition that will allow the passage of light administrative vehicles.

<u>Road</u>	<u>Stations</u>
DV-130	0+00 to 12+37
L-1100	0+00 to 52+03
L-1300	0+00 to 22+47

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following road(s), Purchaser shall use a grader to shape the existing surface before rock application.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
DV-130	0+00 to 12+37	Grade and shape in accordance with TYPICAL SECTION SHEET.
L-1300	0+00 to 22+47	
L-1301A	0+00 to 16+86	

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-1 BRUSHING

On the following road(s), Purchaser shall cut vegetative material up to 3 inches in diameter, including limbs, as shown on the ROAD BRUSHING DETAIL. Brushing must be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

<u>Road</u>	<u>Stations</u>
L-1101	0+00 to 27+00

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal may not be used for brushing. Excavator buckets, log loaders and similar equipment may not be used for brushing unless otherwise approved in writing by the Contract Administrator.

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 2 inches DBH or over 5 feet high between the marked right-of-way boundaries and within waste and debris areas, or if not marked in the field, between the clearing limits specified on the TYPICAL SECTION SHEET. Clearing must be completed before starting excavation and embankment.

3-8 PROHIBITED DECKING AREAS

Purchaser shall not deck right-of-way timber in the following areas:

- Within the grubbing limits.
- Within 25 feet of any stream.
- Within 25 feet of a cross drain culvert.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 45%.
- On uphill side of road prism.
- Against standing trees unless approved by the Contract Administrator.

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Purchaser shall remove stumps using a hydraulic mounted excavator unless authorized in writing by the Contract Administrator. Stumps over 22 inches diameter must be split. Stumps over 40 inches must be quartered. Grubbing must be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

Purchaser shall place grubbed stumps outside of the clearing limits and in compliance with all other clauses in this road plan. Stumps must be positioned upright, with root wads in contact with the forest floor on stable locations.

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

Purchaser is not required to remove stumps within waste areas if they are cut flush with the ground.

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clause G-011 RIGHT TO REMOVE FOREST PRODUCTS AND CONTRACT AREA, that is larger than one cubic foot in volume within the clearing, waste area, and brushing area limits as shown on the TYPICAL SECTION SHEET.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris before subgrade compaction.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

Waste areas for organic debris are located as listed below or within the cleared right-of-way or in natural openings or at areas approved in writing by the Contract Administrator.

<u>Road</u>	<u>Disposal Location</u>	<u>Requirements</u>
L-1100	44+68	Organic debris larger than one cubic foot in volume shall be separated from waste material as defined under Clause 4-35 WASTE MATERIAL DEFINITION.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 25 feet of a cross drain culvert.
- Within 50 feet of a live stream, or wetland.
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 45%.
- On uphill side of road prism.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

Purchaser shall not bury organic debris unless otherwise stated in this plan.

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris outside of the clearing limits or in natural openings on the downhill side of the road as directed by the Contract Administrator. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

3-31 PILING

On the following road(s), Purchaser shall pile organic debris no closer than 20 feet from standing timber and no higher than 10 feet in areas specified in Clause 3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS. Piles must be free of rock and soil.

<u>Road</u>	<u>Stations</u>
L-1100	44+68

3-32 END HAULING ORGANIC DEBRIS

On slopes greater than 45%, Purchaser shall end haul or push organic debris to the designated waste areas specified in Clause 3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS or to a waste area located by the Contract Administrator.

SECTION 4 – EXCAVATION

4-2 PIONEERING

Pioneering may not extend past construction that will be completed during the current construction season. In addition, the following actions must be taken as pioneering progresses:

- Drainage must be provided on all uncompleted construction.
- Road pioneering operations may not undercut the final cut slope or restrict drainage.

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Purchaser shall follow these standards for road grade and alignment:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 12 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Maximum grade change for sag vertical curves is 5% in 100 feet.
- Maximum grade change for crest vertical curves is 4% in 100 feet.

4-5 CUT SLOPE RATIO

Purchaser shall construct excavation slopes no steeper than shown on the following table:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>	<u>Excavation Slope Percent</u>
Common Earth	1:1	100
Fractured or loose rock	½:1	200
Hardpan or solid rock	¼:1	400

4-6 EMBANKMENT SLOPE RATIO

Purchaser shall construct embankment slopes no steeper than shown on the following table:

<u>Material Type</u>	<u>Embankment Slope Ratio</u>	<u>Embankment Slope Percent</u>
Sandy Soils	2:1	50
Common Earth and Rounded Gravel	1½:1	67
Angular Rock	1¼:1	80

4-7 SHAPING CUT AND FILL SLOPE

Purchaser shall construct excavation and embankment slopes to a uniform line and left rough for easier revegetation.

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

- 6 feet for curves of 50 to 79 feet radius.
- 4 feet for curves of 80 to 100 feet radius.

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

- 2 feet for embankment heights at centerline of 2 to 6 feet.
- 4 feet for embankment heights at centerline of greater than 6 feet.

Purchaser shall apply embankment widening equally to both sides of the road to achieve the required width.

4-10 WIDEN THE EXISTING SUBGRADE

On the following road(s), Purchaser shall widen the subgrade and fill slopes to the dimensions shown on the TYPICAL SECTION SHEET. If necessary, Purchaser shall reconstruct excavation slopes to provide sufficient width for the road surface and any ditches.

<u>Road</u>	<u>Stations</u>
L-1720	12+70 to 22+13

4-12 FULL BENCH CONSTRUCTION

Where side slopes exceed 45%, Purchaser shall use full bench construction for the entire subgrade width.

4-22 TURNAROUNDS

Purchaser shall construct turnarounds as designated on the ROCK LIST. Turnarounds must be no larger than 30 feet long and 30 feet wide. Locations are subject to written approval by the Contract Administrator.

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

Purchaser shall construct and reconstruct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Ditches must be constructed concurrently with construction of the subgrade.

4-27 DITCH WORK – MATERIAL USE PROHIBITED

On the following road(s), Purchaser shall not pull ditch material across the road or mix in with the road surface. Excavated material must be scattered outside the grubbing limits.

<u>Road</u>	<u>Stations</u>
DV-130	0+00 to 12+37
L-1300	0+00 to 22+47
L-1301A	0+00 to 16+86

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as directed by the Contract Administrator. Ditchouts must be constructed in a manner that diverts ditch water onto the forest floor and must have excavation backslopes no steeper than a 1:1 ratio.

4-35 WASTE MATERIAL DEFINITION

Waste material is defined as all dirt, rock, mud, or related material that is extraneous or unsuitable for construction material. Waste material, as used in Section 4 EXCAVATION, is not organic debris.

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

4-37 WASTE AREA LOCATION

Purchaser shall deposit waste material in areas identified or approved by the Contract Administrator. Additional waste areas may also be identified or approved by the Contract Administrator. The amount of material allowed in a waste area is at the discretion of the Contract Administrator.

<u>Road</u>	<u>Waste Area Location</u>	<u>Comments</u>
L-1100	44+68	Waste material shall be spread and compacted evenly with a surface that provides drainage at a minimum of 3% outslope.

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas, except as otherwise specified in this plan:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- On side slopes steeper than 45%.
- On uphill side of road prism.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- Against standing timber.

4-48 NATIVE MATERIAL

Native material consists of naturally occurring material that is free of organic debris, trash, and rocks greater than 4 inches in any dimension.

4-55 ROAD SHAPING

Purchaser shall shape the subgrade and surface as shown on the TYPICAL SECTION SHEET. The subgrade and surface shape must ensure runoff in an even, un-concentrated manner, and must be uniform, firm, and rut-free.

4-56 DRY WEATHER SHAPING

The Contract Administrator may require the application of water to facilitate shaping activities. The method of water application is subject to written approval by the Contract Administrator.

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material in accordance with the COMPACTION LIST by routing equipment over the entire width of each lift. A plate compactor must be used for embankment and waste area segments too narrow to accommodate equipment. Waste material may be placed by end-dumping or side-casting until sufficiently wide enough to support the equipment.

4-61 SUBGRADE COMPACTION

Purchaser shall compact constructed and reconstructed subgrades in accordance with the COMPACTION LIST by routing equipment over the entire width except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before rock application.

4-62 DRY WEATHER COMPACTION

Contract Administrator may require the application of water to facilitate compaction activities. The method of water application is subject to written approval by the Contract Administrator.

4-63 EXISTING SURFACE COMPACTION

Purchaser shall compact maintained road surfaces in accordance with the COMPACTION LIST by routing equipment over the entire width.

SECTION 5 – DRAINAGE

5-5 CULVERTS

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly on unprotected soil.

5-6 CULVERT TYPE

On the following road(s), Purchaser may install culverts made of steel or plastic in accordance with Clauses 10-15 through 10-24. All other culverts shall be made of plastic.

<u>Road</u>	<u>Stations</u>
DV-131	4+78 to 24+47
L-1101	0+00 to 27+00

5-7 USED CULVERT MATERIAL

On temporary roads, Purchaser may install used culverts. All other roads must have new culverts installed. Purchaser shall obtain approval from the Contract Administrator for the quality of the used culverts before installation. Culverts must meet the specifications in Clauses 10-15 through 10-24.

5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT LIST that are not installed will become the property of the state. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures" or the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations.

5-17 CROSS DRAIN SKEW AND SLOPE

Cross drains, on road grades in excess of 3%, must be skewed at least 30 degrees from perpendicular to the road centerline, except where the cross drain is at the low point in the road culverts will not be skewed. Cross drain culverts must be installed at a slope steeper than the incoming ditch grade, but not less than 3% or more than 10%.

5-18 CULVERT DEPTH OF COVER

All culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point.

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts, except for temporary culverts. Energy dissipater installation is subject to approval by the Contract Administrator.

5-25 CATCH BASINS

Purchaser shall construct catch basins in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions of catch basins are 2 feet wide and 4 feet long.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts, except for temporary culverts. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets. Minimum specifications require that rock be placed at a width of one culvert diameter on each side of the culvert opening, and to a height of one culvert diameter above the top of the culvert. Rock may not restrict the flow of water into culvert inlets or catch basins. Rock must be set in place by machine. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed. Rock type shall meet the specifications in Clause 6-41 SELECT PIT RUN ROCK.

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by November 1. Purchaser shall construct waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical distance of no more than 10 feet between waterbars or between natural drainage paths, and with a maximum spacing of 200 feet.

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the following source(s) on state land at no charge to the Purchaser. Purchaser shall obtain written approval from the Contract Administrator for the use of material from any other source. If other operators are using, or desire to use the rock source(s), a joint operating plan must be developed. All parties shall follow this plan. Purchaser shall notify the Contract Administrator a minimum of 3 calendar days before starting any operations in the listed locations.

<u>Source</u>	<u>Location</u>
L-1100 Pit	S28, T04N, R04E, W.M.

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense. Rock sources are subject to written approval by the Contract Administrator before their use.

<u>Possible Source</u>	<u>Location</u>	<u>Rock Type</u>
MOUNTAIN TOP QUARRY	18601 NE YACOLT MTN. RD. YACOLT, WA 98675	1¼-INCH MINUS CRUSHED

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

Purchaser shall conduct rock source development and use at the following sources, in accordance with the written ROCK SOURCE DEVELOPMENT PLAN prepared by the state and included in this road plan. Upon completion of operations, the rock source must be left in the condition specified in the ROCK SOURCE DEVELOPMENT PLAN, and approved in writing by the Contract Administrator. Purchaser shall notify the Contract Administrator a minimum of 3 calendar days before starting any operations in the rock source.

<u>Source</u>	<u>Rock Type</u>
L-1100 Pit	4-INCH MINUS CRUSHED, SELECT PIT RUN

6-23 ROCK GRADATION TYPES

Purchaser shall manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality when placed in hauling vehicles. The exact point of evaluation for conformance to specifications will be determined by the Contract Administrator. Gradation specifications shall be in accordance with Clauses 6-36 4-INCH MINUS CRUSHED, and 6-41 SELECT PIT RUN.

6-36 4-INCH MINUS CRUSHED ROCK

% Passing 4" square sieve	100%
% Passing 2" square sieve	55 - 75%
% Passing U.S. #4 sieve	15 - 45%

The portion of aggregate retained on the No. 4 sieve may not contain more than 0.2 percent organic debris and trash. All percentages are by weight.

6-41 SELECT PIT RUN ROCK

No more than 20 percent of the rock may be smaller than 8 inches in any dimension and no rock may be larger than 12 inches in any dimension. Select Pit Run rock may not contain organic debris, dirt, and trash. Rock may require processing to meet this specification.

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths, are defined as the compacted depth(s) using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are loose yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction. Unless otherwise stated in Clause 6-75 OPTIONAL ROCK EXCEPTION.

6-56 ROCK MEASUREMENT BY TRUCK VOLUME

Measurement of 4-INCH MINUS CRUSHED, and SELECT PIT RUN rock for spot patching, landings, armoring and energy dissipaters is on a cubic yard truck measure basis. The Contract Administrator will measure each truck box before rock hauling. An average of such volumes for each truck will be used to tally the volume hauled. The Contract Administrator may periodically require that a load be flattened off and its volume calculated. Purchaser shall maintain load tally sheets, as shown in ROCK ACCOUNTABILITY DETAIL, for each truck and shall give them to the Contract Administrator on a weekly basis during rocking operations.

6-57 ROCK MEASUREMENT BY TRUCK SCALE

Measurement of the 1¼-INCH MINUS CRUSHED ROCK is on scaled truck weight. Purchaser shall provide scaled weight using a commercial scale. Purchaser shall provide the Contract Administrator with all scale sheets.

6-59 WEIGHT PER CUBIC YARD MEASUREMENT

At the start of operations, a weight per cubic yard will be calculated as follows:

- a) Measure the box of a truck to be used for rock haul.
- b) Weigh the truck for tare weight at a state certified platform scale.
- c) Flatten off a load of rock in the truck and calculate its exact volume in cubic yards.
- d) Weigh the truck for gross weight at a state certified platform scale.
- e) Divide the net weight of the load by the volume calculated in step c.

Calculated conversion factors will be valid for no more than 30 days or until rock density or moisture changes significantly, as determined by the Contract Administrator.

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before rock application.

6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

6-72 ROCK APPLICATION AFTER HAULING

On the following road(s), upon completion of all hauling operations, Purchaser shall apply 1¼-INCH MINUS CRUSHED ROCK in accordance with the quantities shown on the ROCK LIST.

<u>Road</u>	<u>Stations</u>
DV-130	0+00 to 12+37
L-1300	0+00 to 22+47

6-73 ROCK FOR WIDENED PORTIONS

Purchaser shall apply rock to turnarounds, turnouts, and areas with curve widening to the same depth and specifications as the traveled way.

6-75 OPTIONAL ROCK EXCEPTION

On the following roads, if hauling takes place from June 1 to September 30 Purchaser may provide and place less rock than shown on the ROCK LIST, when approved in writing by the Contract Administrator.

If less rock is applied, Purchaser shall submit a written plan, for approval, describing how these roads will be constructed, used, maintained, and treated post-haul. Purchaser shall meet post-haul specifications in Section 9 POST-HAUL ROAD WORK, the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, or other conditions of the approved plan.

<u>Road</u>	<u>Stations</u>
L-101	0+00 to 1+00
L-1720	12+70 to 22+13

6-76 DRY WEATHER ROCK COMPACTION

The Contract Administrator may require the application of water to facilitate compaction of the rock surfacing. The method of water application is subject to approval by the Contract Administrator.

6-80 WATERING FOR DUST ABATEMENT

Purchaser shall use water for dust abatement on the following roads as directed by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
DV-130	0+00 to 12+37
L-1300	0+00 to 22+47

SECTION 7 – STRUCTURES

7-57 CULVERT SHAPE CONTROL

Purchaser shall monitor the culvert shape during backfill and compaction. Special attention must be paid to maintaining the structure’s rise dimensions, concentricity, and smooth uniform curvature. If compaction methods are resulting in peaking or deflection of the culvert, Purchaser shall modify the compaction method to achieve the appropriate end result.

7-70 GATE CLOSURE

On the following road(s), Purchaser shall keep gates closed and locked except during periods of haul. All gates that remain open during haul must be locked or securely fastened in the open position. All gates must be closed at termination of use.

<u>Road</u>
DV-130
L-1300
L-1700

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

Purchaser shall install sediment traps, silt fences, settling ponds or other methods as approved by the Contract Administrator.

8-2 PROTECTION FOR EXPOSED SOIL

Purchaser shall provide and evenly spread a 3-inch layer of straw to all exposed soils within 50 feet of a stream or wetland. Soils must be covered before the first anticipated storm event. Soils may not sit exposed during any rain event.

8-15 REVEGETATION

Purchaser shall spread grass seed on all exposed soils resulting from road work activities. Cover all exposed soils using manual dispersal methods. Other methods of covering must be approved in writing by the Contract Administrator. Required seed not spread by the termination of this contract will become the property of the state.

<u>Road</u>	<u>Qty (lbs)*</u>	<u>Type</u>
construction	170	grass seed
reconstruction	32	
abandonment	84	

*Quantities are estimates only. Actual quantities may vary and are the responsibility of the Purchaser.

8-16 REVEGETATION SUPPLY

The Purchaser shall provide the grass seed.

8-17 REVEGETATION TIMING

Purchaser shall revegetate during the first available opportunity after road work is completed. Soils may not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator.

8-19 ASSURANCE FOR SEEDED AREA

Purchaser shall ensure the growth of a uniform and dense crop (at least 75% coverage) of 3-inch tall grass. Purchaser shall reapply the grass seed in areas that have failed to germinate or have been damaged through any cause. Restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the grass seed at no additional cost to the state.

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soil at a rate of 50 pounds per acre of exposed soil. Grass seed must meet the following specifications:

1. Weed seed may not exceed 0.5% by weight.
2. All seed species must have a minimum 90% germination rate, unless otherwise specified.
3. Seed must be certified.
4. Seed must be furnished in standard containers showing the following information:
 - a. Common name of seed
 - b. Net weight
 - c. Percent of purity
 - d. Percentage of germination
 - e. Percentage of weed seed and inert material
5. Seed must conform to the following mixture unless a comparable mix is approved in writing by the Contract Administrator.

<u>Kind and Variety of Seed in Mixture</u>	<u>% by Weight</u>	<u>Minimum % germination</u>
Perennial Rye	35-45	90
Red Fescue	30-40	90
Highland Bent	5-15	85
White Clover	10-20	90
Inert and Other Crop	0.5	

SECTION 9 – POST-HAUL ROAD WORK

9-1 EARTHEN BARRICADES

Purchaser shall construct barricades in accordance with the EARTHEN BARRICADE DETAIL.

<u>Road</u>	<u>Stations</u>
DV-131	4+78
L-1101	1+00

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

Culverts removed from roads become the property of the Purchaser and must be removed from state land.

9-5 POST-HAUL MAINTENANCE

Purchaser shall perform post-haul maintenance in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS and as specified below.

<u>Road</u>	<u>Stations</u>	<u>Additional Requirements</u>
DV-130	0+00 to 12+37	Grade, shape and compact existing surface; manufacture, application and compaction of spot patch rock with 1¼-INCH MINUS CRUSHED from commercial source.
L-1300	0+00 to 22+47	

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

9-21 ROAD ABANDONMENT

Purchaser shall abandon the following roads before the termination of this contract. Work must be in accordance with the ROAD ABANDONMENT CROSS SECTIONS DETAIL, Clause 9-22 LIGHT ABANDONMENT and 9-23 MEDIUM ABANDONMENT.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
DV-131	4+78 to 24+47	medium
L-1101	1+00 to 30+03	light

9-22 LIGHT ABANDONMENT

- Remove road shoulder berms except as directed.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical drop of no more than 20 feet between waterbars or between natural drainage paths and with a maximum spacing of 200 feet, or as marked in the field.
- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade. Key waterbars into the cut-slope to intercept the ditch. Waterbars must be outsloped to provide positive drainage. Outlets must be on stable locations.
- Remove ditch cross drain culverts and leave the resulting trench open in accordance with CROSS DRAIN REMOVAL DETAIL.
- Scatter woody debris onto abandoned road surfaces.
- Apply grass seed concurrently with abandonment and in accordance with Section 8 EROSION CONTROL.

9-23 MEDIUM ABANDONMENT

- Fill in ditches.
- Rip the surface to a minimum depth of 10 inches.
- Construct non-drivable waterbars in accordance with the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical drop of no more than 20 feet between waterbars or between natural drainage paths and with a maximum spacing of 200 feet, or as marked in the field.
- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade. Key waterbars into the cut-slope to intercept the ditch. Waterbars must be outsloped to provide positive drainage. Outlets must be on stable locations.
- Remove ditch cross drain culverts and leave the resulting trench open in accordance with CROSS DRAIN REMOVAL DETAIL.
- Scatter woody debris onto abandoned road surfaces.
- Apply grass seed concurrently with abandonment and in accordance with Section 8 EROSION CONTROL.

SECTION 10 MATERIALS

10-15 CORRUGATED STEEL CULVERT

Metallic coated steel culverts must meet AASHTO M-36 (ASTM A-760) specifications. Culverts must be aluminized (aluminum type 2 coated meeting AASHTO M-274).

10-17 CORRUGATED PLASTIC CULVERT

Polyethylene culverts must meet AASHTO M-294 specifications, or ASTM F-2648 specifications for recycled polyethylene. Culverts must be Type S – double walled with a corrugated exterior and smooth interior.

10-20 FLUME AND DOWNSPOUT

Downspouts and flumes must meet the AASHTO specification designated for the culvert. Plastic downspouts and flumes must be Type C – corrugated single walled pipe.

10-21 METAL BAND

Metal coupling and end bands must meet the AASHTO specification designated for the culvert and must have matching corrugations. Culverts 24 inches and smaller must have bands with a minimum width of 12 inches. Culverts over 24 inches must have bands with a minimum width of 24 inches.

10-22 PLASTIC BAND

Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used. Couplings must be split coupling band. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe joint.

10-23 RUBBER CULVERT GASKETS

Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands.

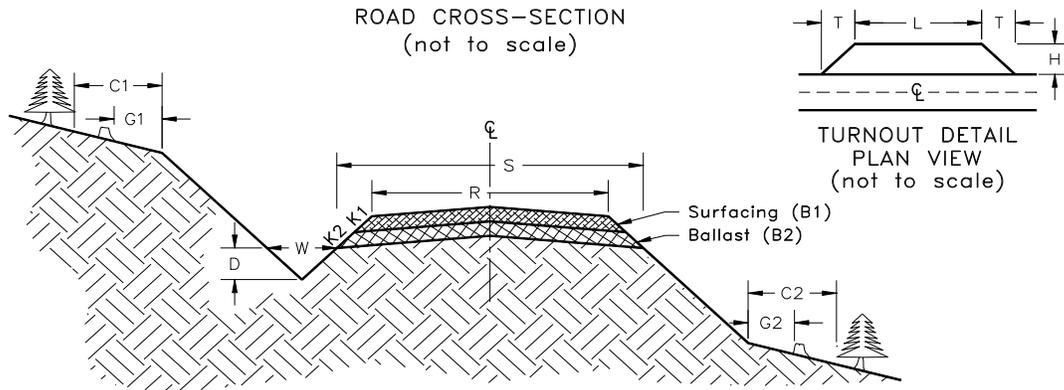
10-24 GAUGE AND CORRUGATION

Metal culverts must conform to the following specifications for gage and corrugation as a function of diameter.

<u>Diameter</u>	<u>Gage</u>	<u>Corrugation</u>
18"	16 (0.064")	2 ² / ₃ " X ¹ / ₂ "
24" to 48"	14 (0.079")	2 ² / ₃ " X ¹ / ₂ "
54" to 96"	14 (0.079")	3" X 1"

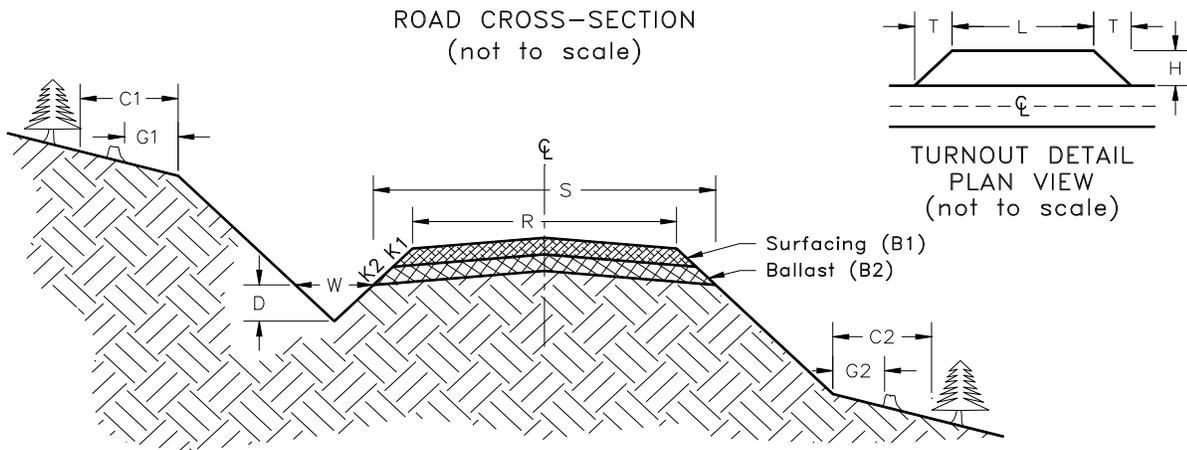
TYPICAL SECTION

Page 1 of 1



Road Number	From Station	To Station	Tolerance Class	Subgrade Width (feet)	Road Width (feet)	Ditch		Crown @ CL (inches)	Grubbing Limits (feet)		Clearing Limits (feet)	
						Width (feet)	Depth (feet)		G1	G2	C1	C2
				S	R	W	D		G1	G2	C1	C2
DV-130	0+00	12+37	C	14	12	--	--	--	--	--	--	--
DV-131	0+00	4+78	C	15	12	3	1	4	3	3	5	5
--	4+78	24+47	C	12	12	3	1	4	--	--	--	--
L-101	0+00	1+00	C	15	12	3	1	4	3	3	5	5
L-1101	0+00	27+00	C	--	12	--	--	4	--	--	--	--
L-1300	0+00	22+47	C	--	12	3	1	4	--	--	--	--
L-1301A	0+00	16+86	C	--	12	--	--	4	--	--	--	--
--	16+86	28+37	C	15	12	3	1	4	3	3	5	5
L-1720	12+70	22+13	C	15	12	3	1	4	3	3	5	5

ROCK LIST
Page 1 of 2



1¼-INCH MINUS CRUSHED

Road Number	Road Attributes	Optional Rock	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	Cubic Yard Per Station	# of Stations	Cubic Yard Subtotal	Rock Source	Turnout		
											Length (feet)	Width (feet)	Taper (feet)
					K1	B1				Commercial	L	H	I
DV-130	Spotpatch		0+00	12+37	1½:1	As directed by CA	12.37		100				
L-1300	Spotpatch		0+00	22+47	1½:1	As directed by CA	22.47		100				

Key:

CA - Contract Administrator

REQUIRED 1¼-INCH MINUS CRUSHED TOTAL 200 Cubic Yards

ROCK LIST
Page 2 of 2

4-INCH MINUS CRUSHED

Road Number	Road Attributes	*Optional Rock	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	Cubic Yard Per Station/Units	# of Stations or Units	Cubic Yard Subtotal	Rock Source	Turnout/Turnaround		
											Length (feet)	Width (feet)	Taper (feet)
					<u>K1</u>	<u>B1</u>				L-1100 Pit	<u>L</u>	<u>H</u>	<u>I</u>
DV-130	--		0+00	12+37	1½:1	8	40	12.37	495				
DV-131	--		0+00	4+78	1½:1	12	63	4.78	301				
--	TA		As directed by CA		1½:1	12	46	1.00	46		30	30	
--	JCT		As directed by CA		1½:1	12	63	1.00	63				
L-101	--	*	0+00	1+00	1½:1	12	63	1.00	63				
--	LNDG	*	1+00		1½:1	12	34	1.00	34				
L-1300	Spotpatch		0+00	22+47	1½:1	As directed by CA		22.47	500				
L-1301A	Spotpatch		0+00	16+86	1½:1	As directed by CA		16.86	200				
--	--		16+86	28+37	1½:1	12	63	11.51	725				
--	TA	*	As directed by CA		1½:1	12	46	1.00	46		30	30	
--	LNDG	*	28+37		1½:1	12	34	1.00	34				
L-1720	--	*	12+70	22+13	1½:1	12	63	9.43	594				
--	TA	*	As directed by CA		1½:1	12	46	1.00	46		30	30	
--	LNDG	*	22+13		1½:1	12	34	1.00	34				

Key:

CA - Contract Administrator
JCT - Junction
TA - Turnaround
LNDG - Landing

REQUIRED 4-INCH MINUS CRUSHED TOTAL 2330 Cubic Yards
OPTIONAL 4-INCH MINUS CRUSHED TOTAL 851 Cubic Yards

ARMORING, AND ENERGY DISSIPATORS

Road Number	Description	Rock Type	C.Y. Total	Rock Source
All roads	Culvert armoring and energy dissipators	SELECT PIT RUN	3	L-1100 Pit

REQUIRED SELECT PIT RUN TOTAL 3 Cubic Yards

CULVERT LIST

Page 1 of 1

<u>Road Number</u>	<u>Location</u>	<u>Culvert</u>			<u>Armoring (Cubic Yards)</u>			<u>Backfill Material</u>	<u>Bedding Material</u>	<u>Culvert Marker (Y/N)</u>	<u>Remarks</u>
		<u>Dia. (inches)</u>	<u>Length (feet)</u>	<u>Type</u>	<u>Inlet</u>	<u>Outlet</u>	<u>Type</u>				
DV-131	13+94	18	30	XX	--	--	--	NT	NT	N	
	18+82	18	30	XX	--	--	--	NT	NT	N	
L-1301A	25+03	18	30	PD	0.5	0.5	SPR	NT	NT	N	
L-1720	12+70	18	30	PD	0.5	0.5	SPR	NT	NT	N	
	18+38	18	30	PD	0.5	0.5	SPR	NT	NT	N	

Key:

- NT - Native (bank run)
- SPR - Select Pit Run
- GM - Galvanized Metal
- PD - Polyethylene Pipe Dual Wall
- XX - PD or GM

COMPACTION LIST

Page 1 of 1

<u>Road</u>	<u>Type</u>	<u>Max Depth Per Lift (inches)</u>	<u>Equipment Type</u>	<u>Equipment Weight (lbs)</u>	<u>Minimum Number of Passes</u>	<u>Maximum Operating Speed (mph)</u>	<u>Maximum Amount of Deflection</u>
All	Existing Road Surface	--	Vibratory Smooth Drum	20000	4	3	1
All	Subgrade Surface	--	Vibratory Smooth Drum	20000	4	3	1
All	Embankment/Fill	12	Excavation	28000	--	--	4
Post-haul	Surfacing (1¼-INCH MINUS CRUSHED)	3	Vibratory Smooth Drum	20000	4	3	1
All	Ballast (4-INCH MINUS CRUSHED)	12	Vibratory Smooth Drum	20000	4	3	2
L-1100 Pit	Waste Areas	24	Excavation	28000	--	--	4
All	Culvert Bedding/Backfill	--	Vibratory Plate Compactor	260	--	--	1

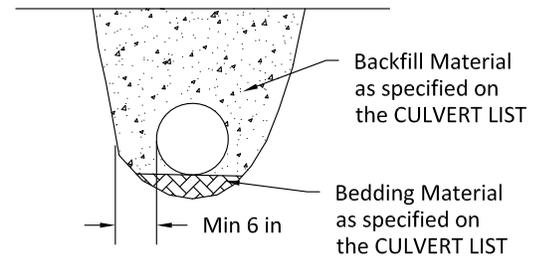
CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 1 OF 2

INSTALLATION REQUIREMENTS:

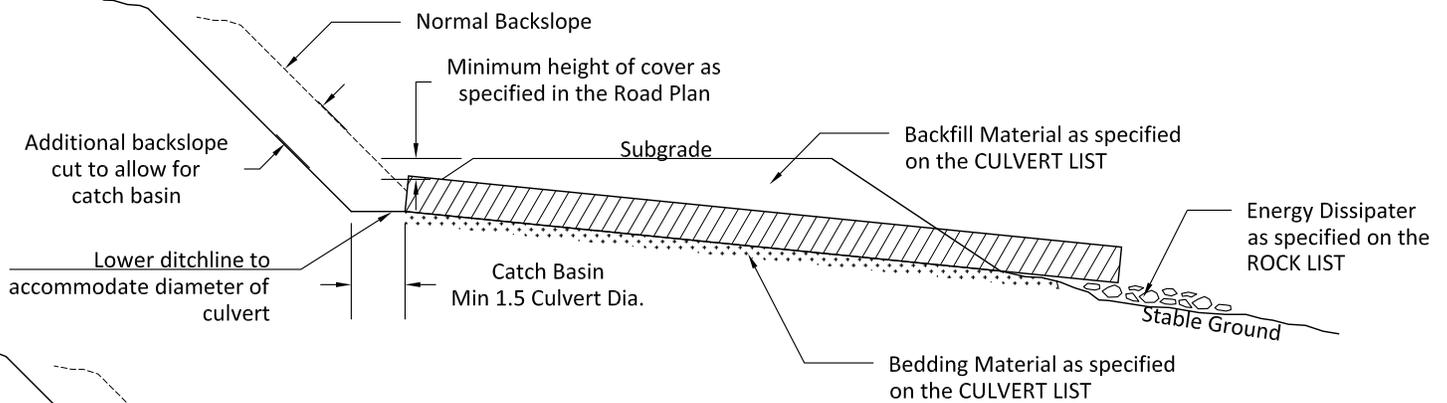
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly supported along the barrel.
2. Backfill material shall be compacted under the culvert haunches, around the sides, and above the culvert in accordance with the COMPACTION LIST.

ALL DRAWINGS ARE NOT TO SCALE

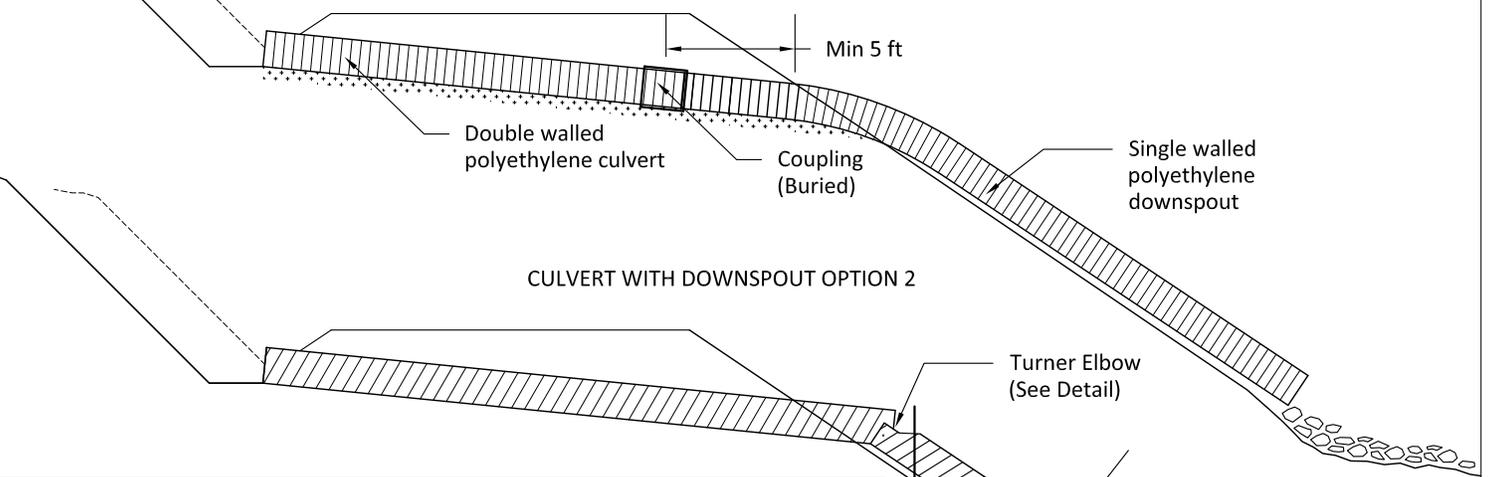
CROSS SECTION



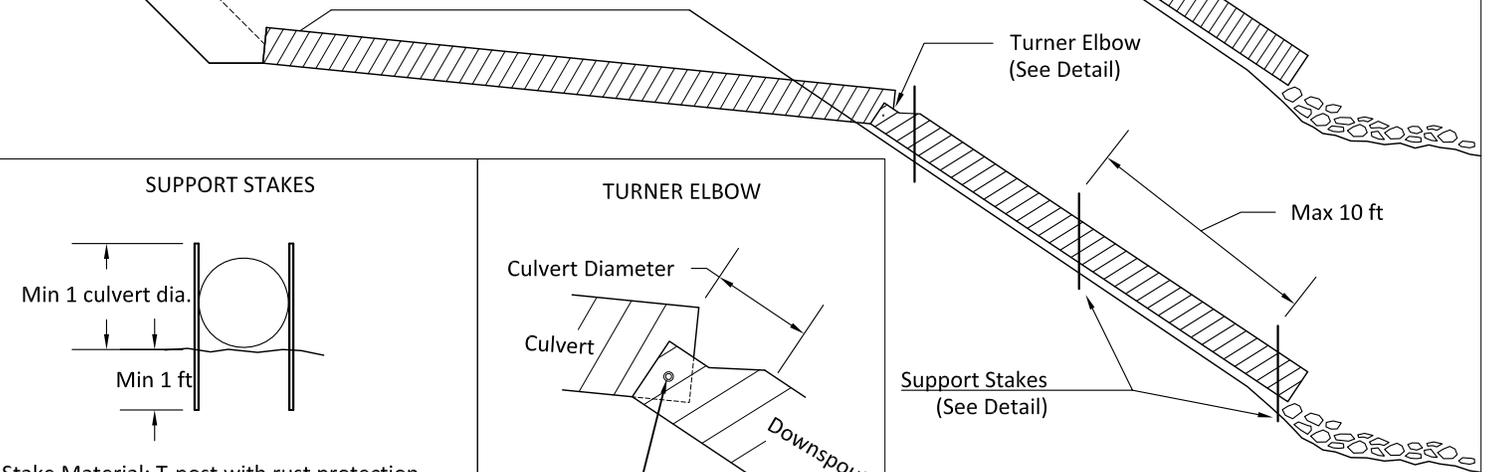
CULVERT PROFILE (TYPICAL)



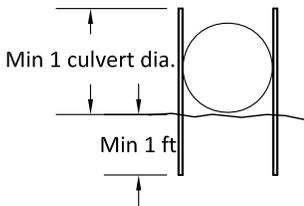
CULVERT WITH DOWNSPOUT OPTION 1



CULVERT WITH DOWNSPOUT OPTION 2

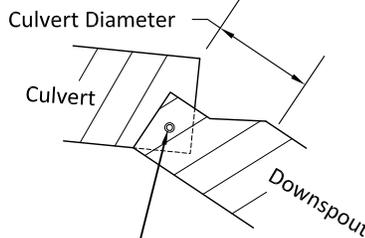


SUPPORT STAKES



Stake Material: T-post with rust protection coating.
Connections: Bolt support stakes to the culvert with $\frac{5}{8}$ " u-bolts, with washers on both the inside and outside of the culvert.
Alternative staking methods may be approved, in writing, by the Contract Administrator.

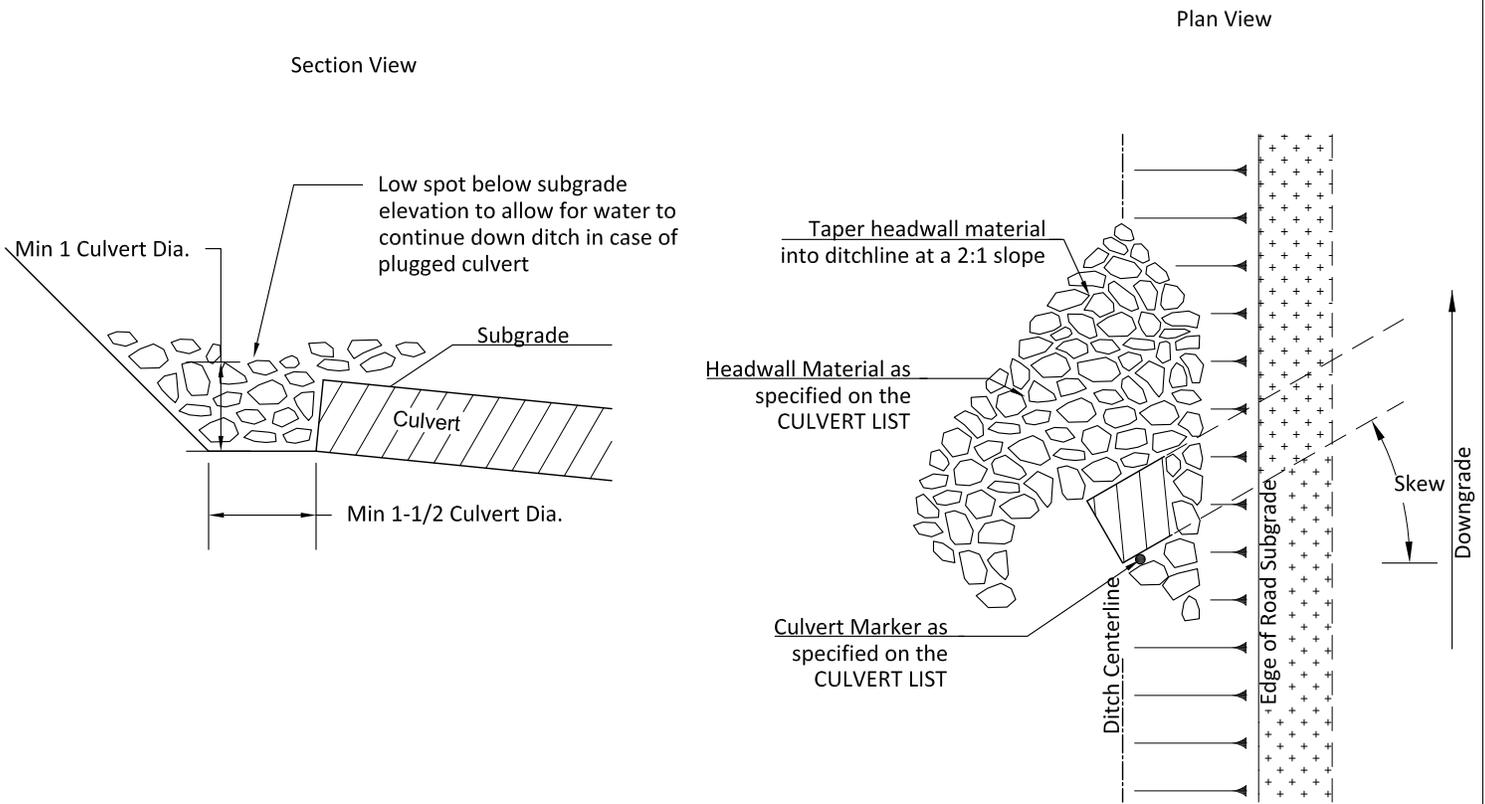
TURNER ELBOW



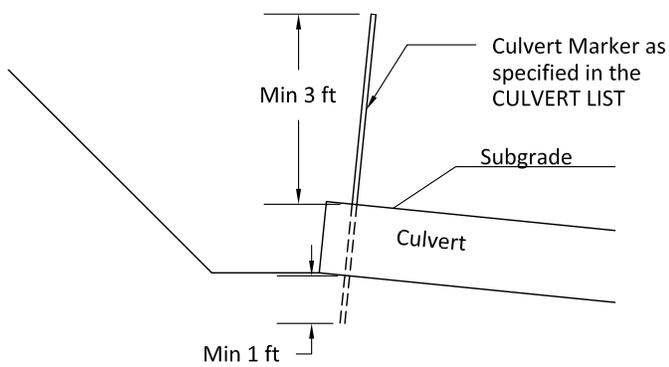
Bolted with $\frac{5}{8}$ " galvanized bolts and washers (both sides)
Downspout must be 6 inches larger in diameter than the culvert.

CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 2 OF 2

HEADWALLS

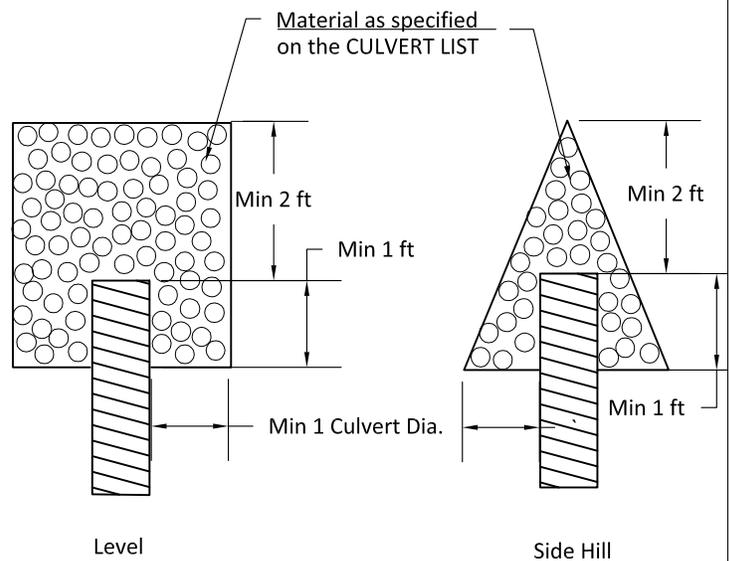


CULVERT MARKERS



Culvert Marker Material: 1 Inch I.D., Schedule 40 PVC Pipe, White. Marker must be capped on the top.
 Culvert Marker Placement: Place on uphill side of culvert, between corrugations if possible.
 Alternative culvert marker types may be approved, in writing, by the Contract Administrator.

ENERGY DISSIPATORS



Min Energy Dissipater Depth: 1 Culvert Dia.

Cuts and Fills

- Maintain slope lines to a stable gradient compatible with the cut slope/fill slope ratios. Remove slides from ditches and the roadway. Repair fill-failures, in accordance with Clause 4-6 EMBANKMENT SLOPE RATIO, with selected material or material approved by the Contract Administrator. Remove overhanging material from the top of cut slopes.
- Waste material from slides or other sources shall be placed and compacted in stable locations identified in the road plan or approved by the Contract Administrator, so that sediment will not deliver to any streams or wetlands.
- Slide material and debris shall not be mixed into the road surface materials, unless approved by the Contract Administrator.

Surface

- Grade, shape, and compact the road surface, turnouts, and shoulders to the original shape on the TYPICAL SECTION SHEET to provide a smooth, rut-free traveled surface and maintain surface water runoff in an even, unconcentrated manner.
- Blading shall not undercut the backslope or cut into geotextile fabric on the road.
- If required by the Contract Administrator, water shall be applied as necessary to control dust and retain fine surface rock.
- Surface material shall not be bladed off the roadway. Replace surface material when lost or worn away, or as directed by the Contract Administrator.
- Remove shoulder berms, created by grading, to facilitate drainage, except as marked or directed by the Contract Administrator.
- For roads with geotextile fabric: spread surface aggregate to fill in soft spots and wheel ruts (barrel spread) to prevent damage to the geotextile fabric.

Drainage

- Prevent silt bearing road surface and ditch runoff from delivering sediment to any streams or wetlands.
- Maintain rolling dips and drivable waterbars as needed to keep them functioning as intended.
- Maintain headwalls to the road shoulder level with material that will resist erosion.
- Maintain energy dissipaters at culvert outlets with non-erodible material or rock.
- Keep ditches, culverts, and other drainage structures clear of obstructions and functioning as intended.
- Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This shall be done even during periods of inactivity.

Preventative Maintenance

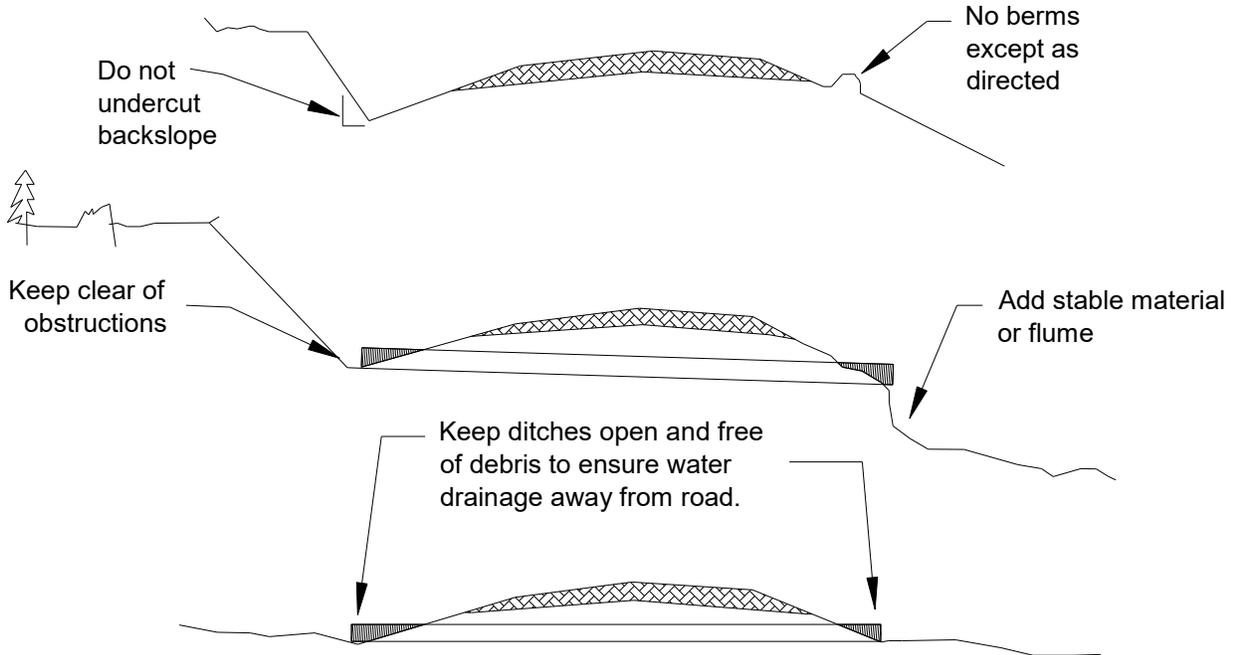
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

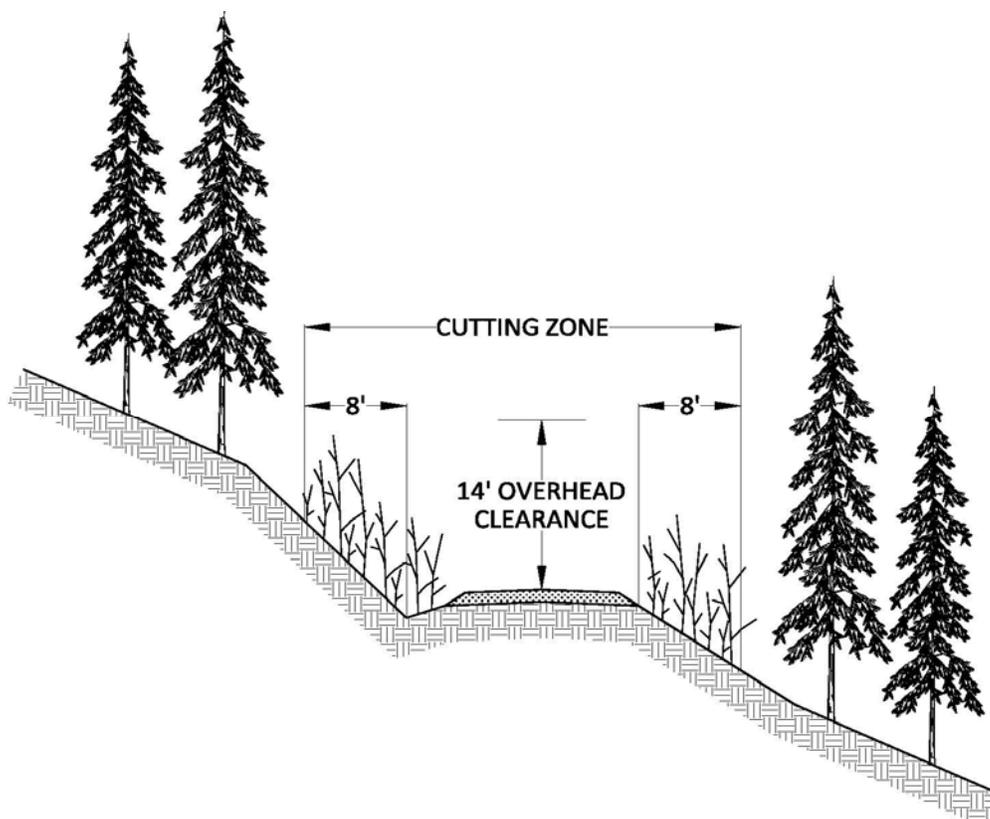
- At the conclusion of logging operations, ensure all conditions of these specifications have been met.

Debris

- Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



ROAD BRUSHING DETAIL



SPECIFICATIONS:

Brush shall be cut on the road surface and 8 ft. back from the back of road ditch and outside edge of running surface.

On the inside of switchbacks and tight curves, brush shall be cut back 16 ft. for visibility.

On truck turnouts or turnarounds, brush shall be cut 8 ft. back from outside edge of running surface.

Brush shall be cut to provide an overhead clearance of 14 ft. above the road running surface.

Brush shall be cut to within 6 in. of the ground.

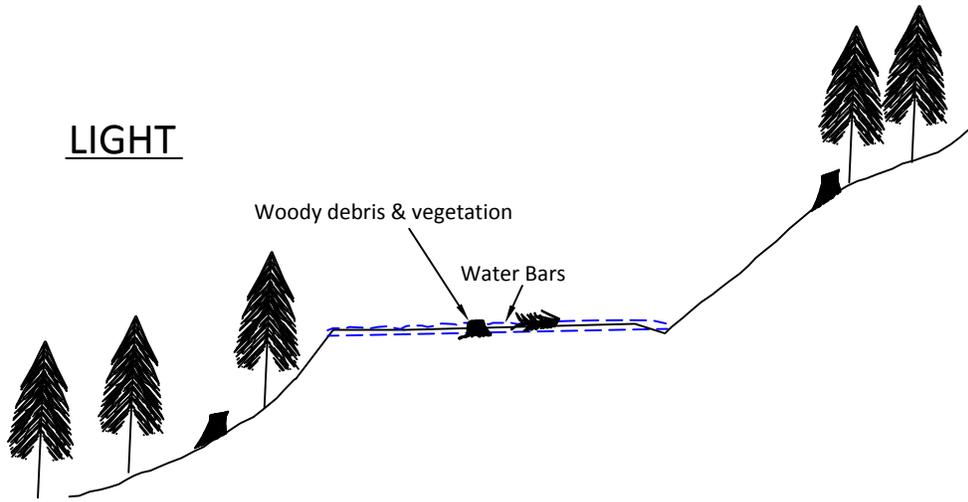
Slash shall be removed from cut slopes above the road and scattered on embankment slopes.

Ditches and road surfaces shall be cleared of woody debris.

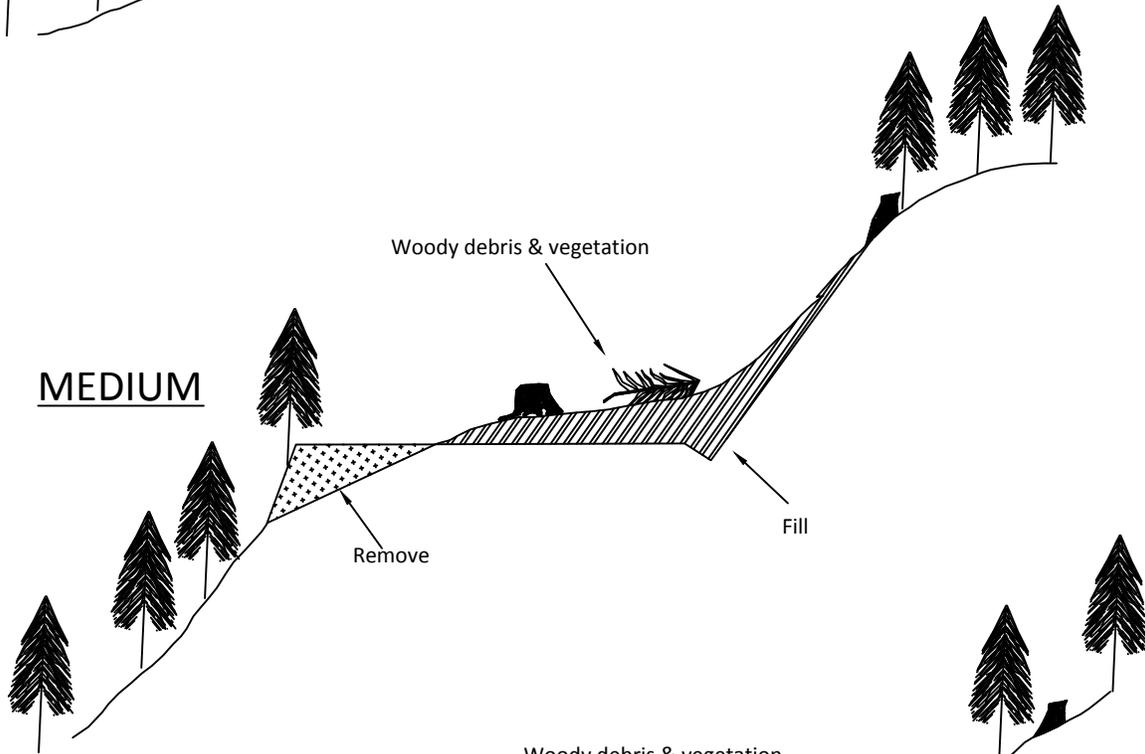
Culvert inlets and outlets shall be cleaned a minimum distance of two pipe diameters away.

ROAD ABANDONMENT CROSS SECTIONS

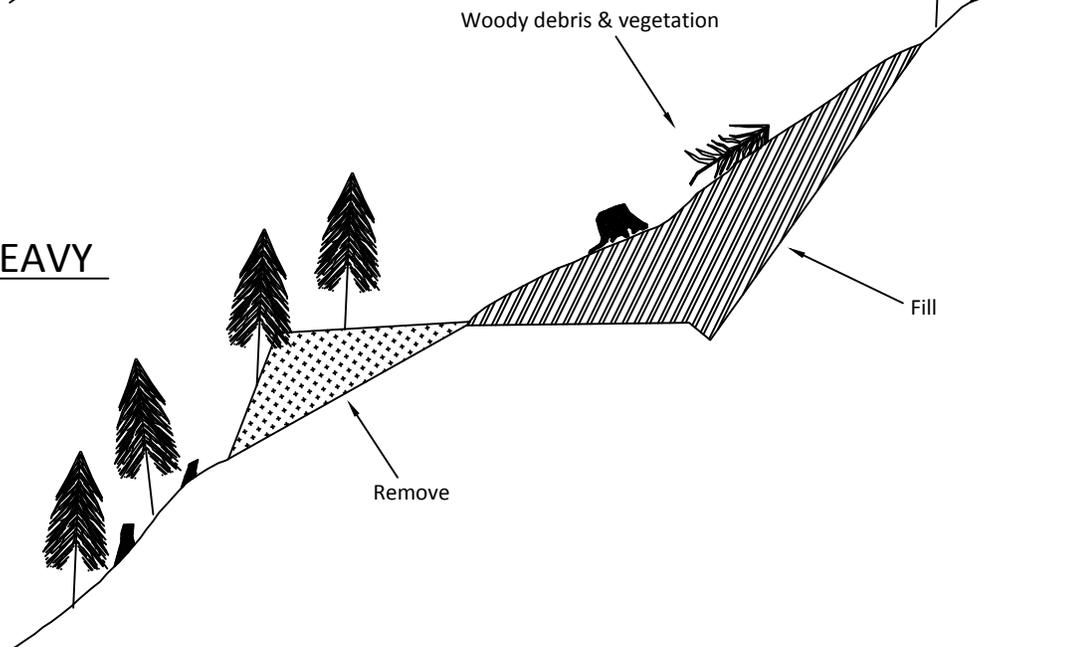
LIGHT



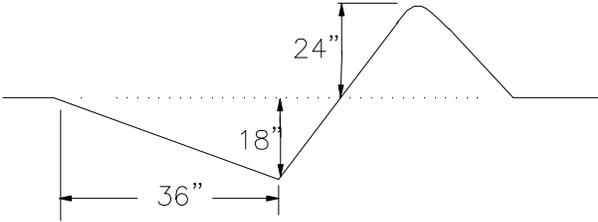
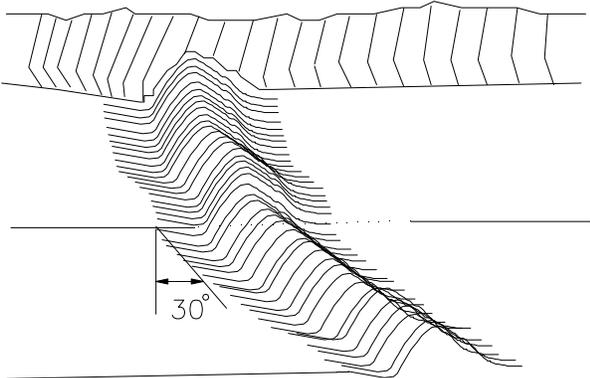
MEDIUM



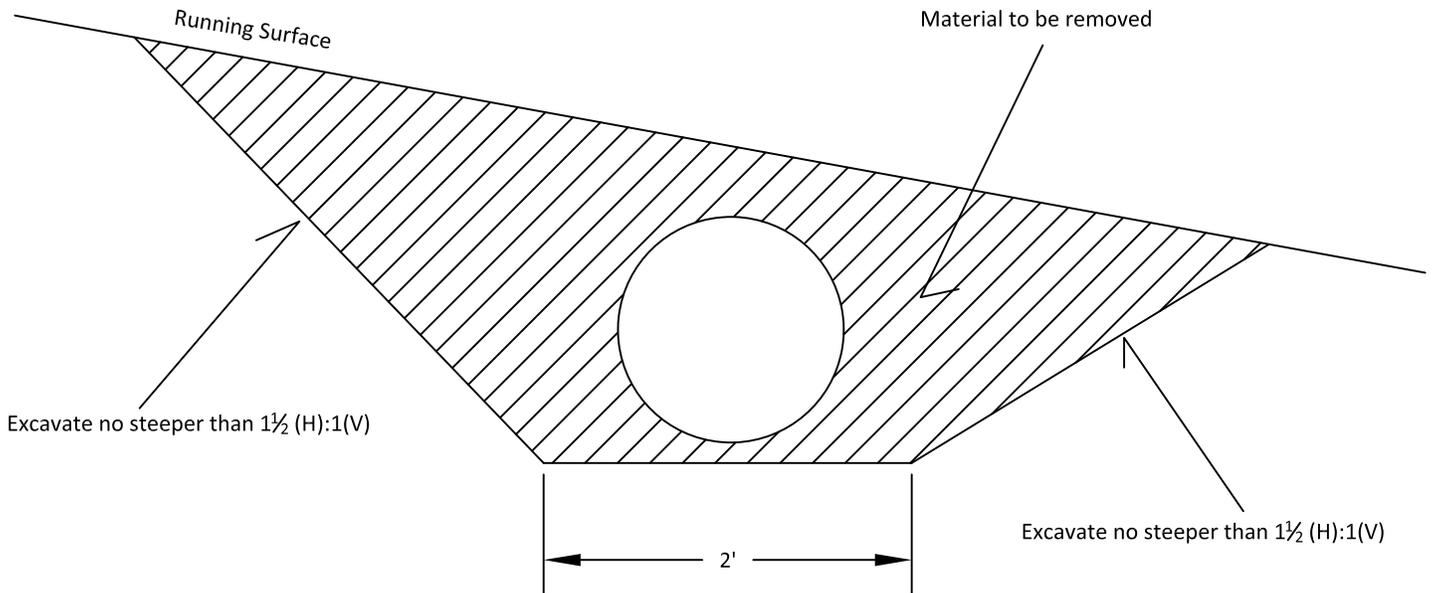
HEAVY



NON-DRIVABLE WATER BAR DETAIL



CROSS DRAIN REMOVAL DETAIL



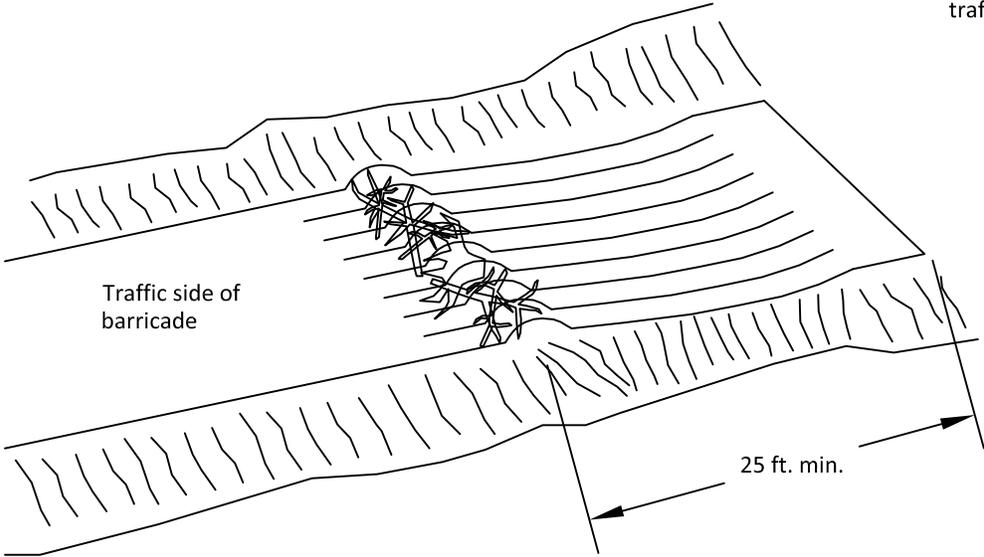
1) Excavated material may be wasted on the road surface on the downhill side of the excavation. Waste material shall be sloped no steeper than 1½ (H):1(V).

2) Resulting trench shall be keyed into the ditchline and sloped towards the outside edge of the road with a drop of at least 1 foot in 10 feet.

EARTHEN BARRICADE DETAIL

PLAN VIEW

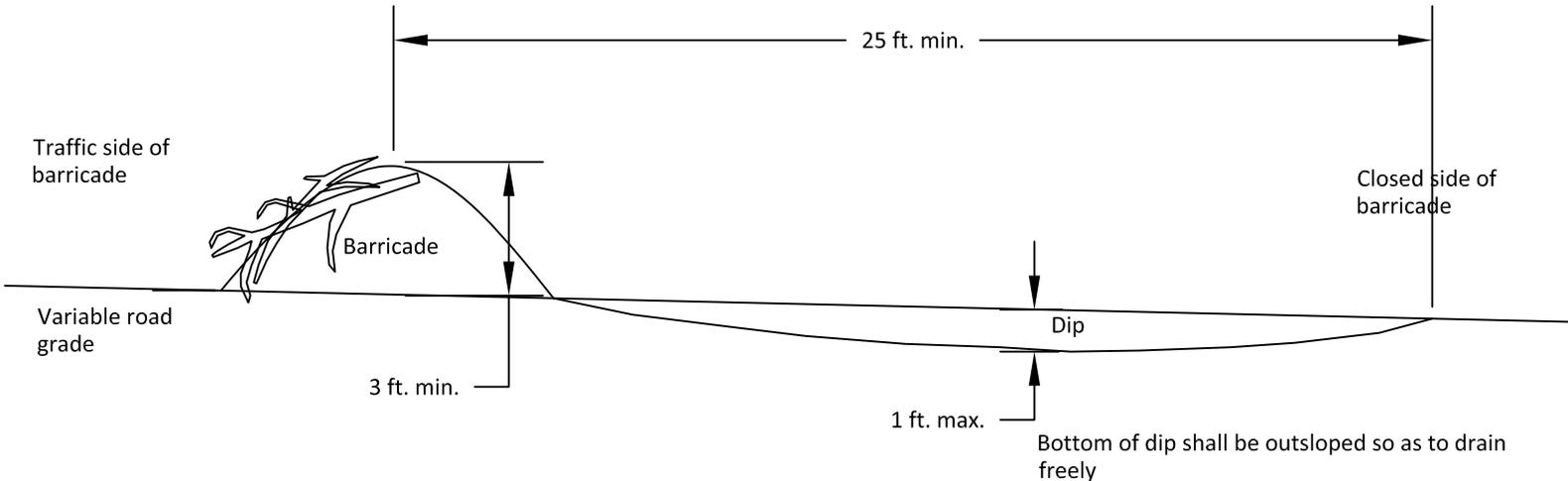
(Not to scale)



Slash and root wads shall be incorporated into traffic side of the barricade.

PROFILE VIEW

(Not to scale)



1. All operations shall be carried out in compliance with all regulations of:
 - a. Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration.
 - b. "Safety Standards for Construction Work" (296-155 WAC), Washington Department of Labor and Industries.
2. Purchaser shall arrange with the Contract Administrator to review the following designated pits and examine the area before beginning any operations. A rock source plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before beginning any operations.

<u>Pit Name</u>	<u>Legal Description</u>	<u>Maximum Pit Face Height</u>	<u>Requirements</u>
L-1100 Pit	28, T04N, R04E	30 Feet	Variable quantities of mixed material sizes are scattered across the pit floor. This material will be utilized for rock processing prior to any new mining development. Additional material needed will be mined within Area A as indicated on the ROCK SOURCE DEVELOPMENT PLAN MAP.

3. All vegetation including stumps shall be cleared a minimum of 25 feet beyond the top of all working faces. Trees shall be cleared to a minimum of ¾ of the height of the tallest tree adjacent to the pit. The Purchaser shall maintain a minimum of 15 foot wide area stripped to rock from the pit face at all times.
4. All overburden shall be end hauled, placed, and compacted at the designated Waste Areas. Waste Area compaction requirements are specified in the COMPACTION LIST.
5. Root wads and organic debris larger than one cubic foot in volume shall be separated from overburden material and piled in the designated Waste Area.
6. Upon request by the Contract Administrator, the Purchaser will submit an informational drilling and shooting plan five working days prior to any drilling.
7. Drilling and rock extraction may begin when the Contract Administrator has approved, in writing, all of the clearing, grubbing and overburden removal.
8. Working bench width shall be a minimum of 20 feet.
9. Upon request by the Contract Administrator, the Purchaser will submit an informational drilling and shooting report after blasting has occurred.

10. The pit floor shall have continuity of slope with a smooth and neat condition that provides drainage at a minimum of 3 percent. All knobs, bumps, or extrusions shall be removed to the designated floor level by excavation or drill and shoot techniques. No sediment shall enter live water.
11. The location and amount of material deposited in a temporary stockpile is subject to approval by the Contract Administrator. All stockpiled material shall be maintained in a neat and useable condition.
12. Oversize material remaining in the pit at the conclusion of use shall not exceed 5 percent of the total volume mined during that operation. Oversize material is defined as rock fragments larger than two feet in any direction. At the conclusion of operations, all remaining oversize material shall be located as directed by the Contract Administrator.
13. Upon completion of pit operations, the following shall occur:
 - a. The maximum slope of pit walls must be consistent with recognized engineering standards for the type of material being excavated in accordance with the following table:

<u>Material</u>	<u>Maximum Slope Ratio (Horiz. :Vert.)</u>	<u>Maximum Slope Percent</u>
Sand	2:1	50
Gravel	1.5:1	67
Common Earth	1:1	100
Fractured Rock	½ :1	200
Solid Rock	0:1	vertical

- b. Pit walls may not be undermined or over steepened. Pit walls must be maintained in a condition that minimizes the possibility of walls sliding or failing.
- c. Pit faces and walls shall be scaled and cleared of loose and overhanging material.
- d. Benches shall have safety berms constructed or access blocked to highway vehicles.
- e. The pit area will be left in a condition that will not endanger public safety, damage property, or be hazardous to animal or human life.
- f. All exposed soils in the Waste Areas shall be grass seeded in accordance with Section 8 of Road Plan.
- g. The pit area shall be worked and left in a condition that future operations may proceed in an orderly manner.
- h. The site shall be cleared of all temporary structures, equipment and rubbish, block access roads with existing on-site rip rap as directed by the Contract Administrator, and shall be left in a neat and presentable condition.
- i. The Purchaser shall obtain written approval of final rock source condition and compliance with the terms of this plan.

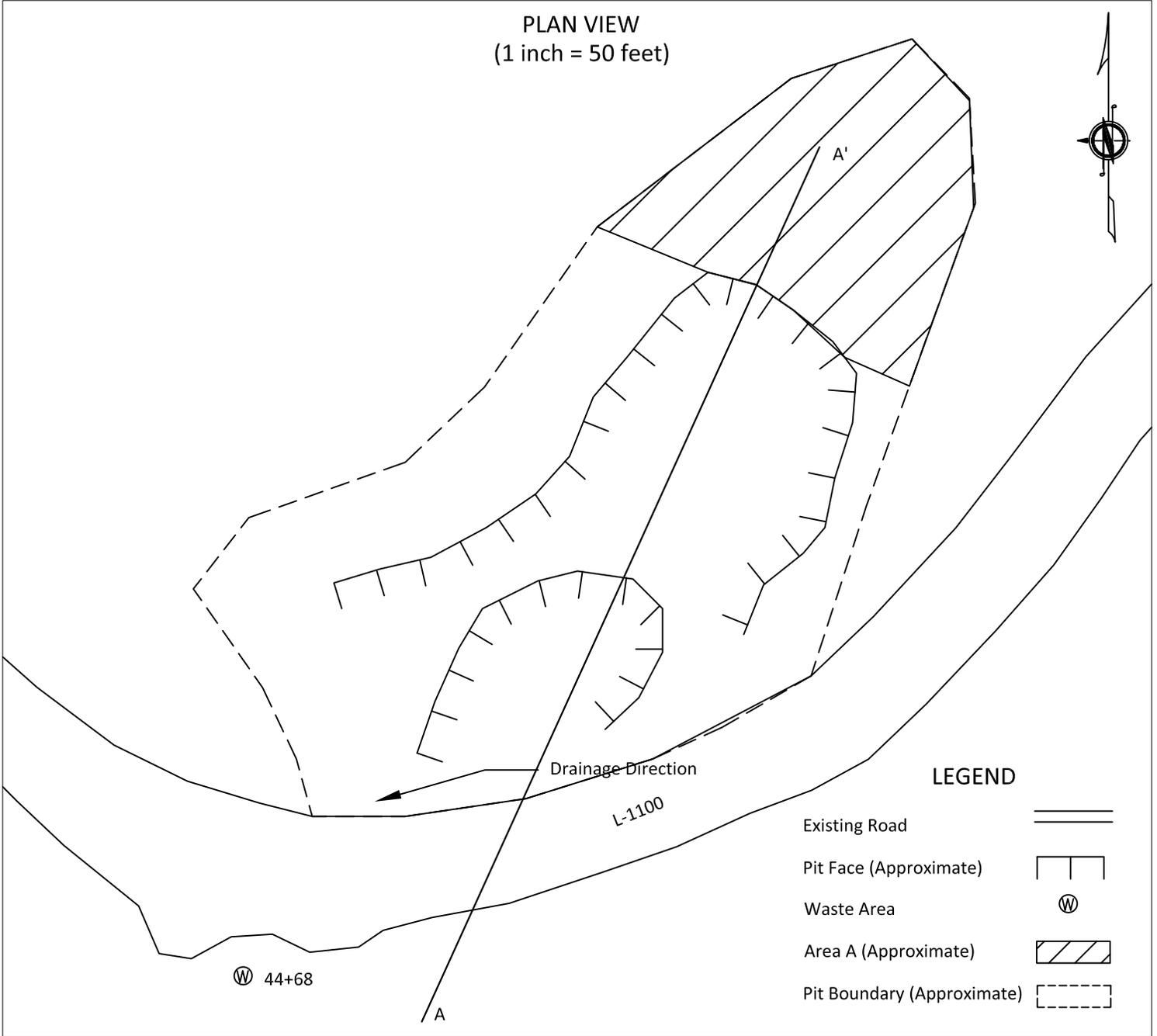
ROCK SOURCE DEVELOPMENT PLAN

Page 3 of 3

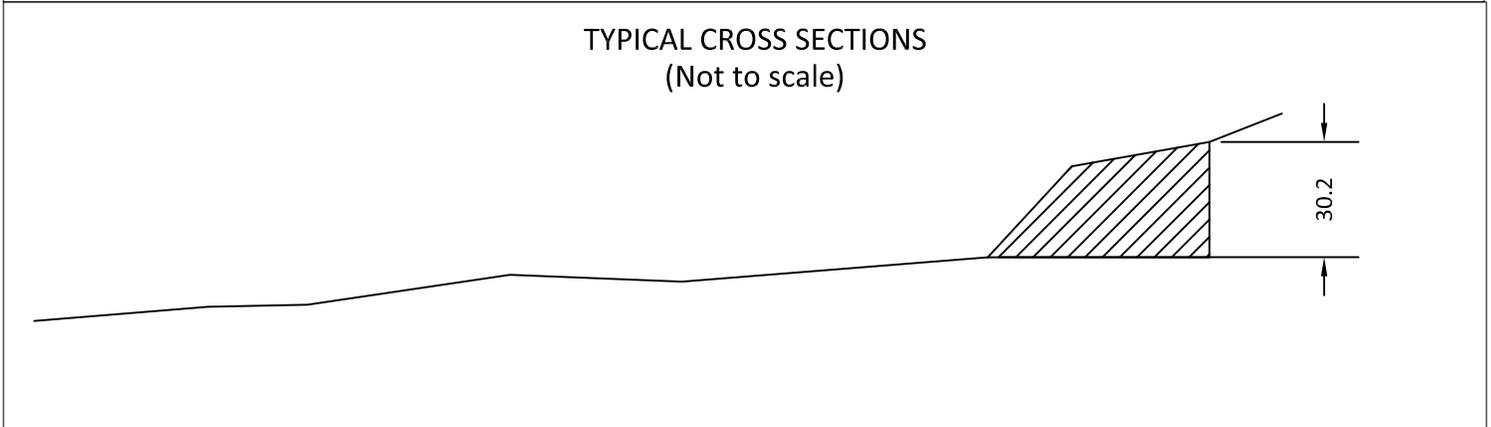
(L-1100 Pit)

SE, SW, Section 28, Township 04 North, Range 04 East, W.M.

PLAN VIEW
(1 inch = 50 feet)



TYPICAL CROSS SECTIONS
(Not to scale)



DEPARTMENT OF NATURAL RESOURCES
ROAD DEVELOPMENT COST SUMMARY

Page 1 of 8

REGION	PACIFIC CASCADE		
DISTRICT	YACOLT		
SALE/PROJECT NAME	DREAMER VRH	CONTRACT NUMBER: 30-100846	
LEGAL DESCRIPTION	Section(s), 5, T03N, R04E; Section(s) 28,29,32, T04N, R04E, W.M.		
ROAD NUMBER	DV-131, L-1301A	L-1720	DV-130,L-1101, L-1300,L-1301A
ROAD STANDARD	Construction	Reconstruction	Maintenance
NUMBER OF STATIONS	36.98	9.43	78.70
CLEARING AND GRUBBING	\$6,243	\$943	
EXCAVATION AND FILL	\$10,865	\$1,400	
MISC. MAINTENANCE			\$2,344
ROCK:			
Surfacing	\$0	\$0	\$6,955
Ballast	\$25,830	\$14,046	\$22,685
Rip Rap	\$0	\$0	\$0
CULVERTS	\$2,080	\$1,387	\$0
GENERAL EXPENSES	\$4,502	\$1,778	\$3,198
MOBILIZATION	\$5,449	\$5,449	\$5,449
TOTAL COSTS	\$54,969	\$25,003	\$40,631
COST PER STATION	\$1,486	\$2,651	\$516
ROAD CLOSURE COSTS	\$5,566		
		TOTAL (All Roads) =	\$126,169
		TOTAL (All roads excluding optional rock) =	\$110,166
		SALE VOLUME MBF =	3,209
		TOTAL COST PER MBF (All Roads) =	\$39.32
		TOTAL COST PER MBF (All roads excluding optional rock) =	\$34.33

CONSTRUCTION COSTS

SALE NAME: DREAMER VRH

CONTRACT NUMBER: 30-100846

CLEARING AND GRUBBING

<u>Road</u>	<u>Type</u>	<u>Average Side Slope (%)</u>	<u>Average MBF/acre</u>	<u>Production Factor</u>	<u>Running Surface (ft)</u>	<u>Total Stations</u>	<u>\$/Station</u>	<u>Sub-Total</u>
DV-131	Required	10	10	1.50	12	4.78	\$82.50	\$394.35
DV-131	Optional	30	20	3.33	12	19.69	\$183.15	\$3,606.22
L-101	Optional	20	30	2.44	12	1.00	\$134.20	\$134.20
L-1301A	Optional	30	20	3.33	12	11.51	\$183.15	\$2,108.06

CLEAR AND GRUB TOTAL = \$6,242.83

EXCAVATION

<u>Road</u>	<u>Type</u>	<u>Average Side Slope (%)</u>	<u>Material Type</u>	<u>Production Factor</u>	<u>Running Surface (ft)</u>	<u>Total Stations</u>	<u>\$/Station</u>	<u>Sub-Total</u>
DV-131	Required	10	Common Soil	1.50	12	4.78	\$150.00	\$717.00
DV-131	Optional	30	Common Soil	2.50	12	19.69	\$250.00	\$4,922.50
L-101	Optional	20	Common Soil	2.00	12	1.00	\$200.00	\$200.00
L-1301A	Optional	30	Common Soil	2.50	12	11.51	\$250.00	\$2,877.50

GRADE, SHAPE AND COMPACT SUBGRADE

<u>Total Stations</u>	<u>\$/Station</u>						<u>Sub-Total</u>
36.98	\$32.49						\$1,201.48

SOIL EROSION CONTROL

<u>Total Stations</u>	<u>Average Width (ft)</u>	<u>Application Rate (lbs/ac)</u>	<u>Seed Quantity (lbs)</u>	<u>Material Cost (\$/lb)</u>	<u>Application Cost (\$/sta)</u>		<u>Sub-Total</u>
36.98	40	50	170	\$2.85	\$12.50		\$946.75

EXCAVATION TOTAL = \$10,865.23

CULVERTS

<u>Description</u>	<u>Dia (inches)</u>	<u>Length (feet)</u>	<u>Downspt. (ft)</u>	<u>Cost/ft</u>	<u>Straw Bales</u>	<u>\$/Bale</u>	<u>Markers (\$)</u>	<u>Sub-total</u>
X-Drain	18	90	0	\$23.11				\$2,079.90

CULVERT TOTAL = \$2,079.90

RECONSTRUCTION COSTS

SALE NAME: DREAMER VRH

CONTRACT NUMBER: 30-100846

CLEARING AND GRUBBING

<u>Road</u>	<u>Type</u>	<u>Average Side Slope (%)</u>	<u>Average MBF/Acre</u>	<u>Production Factor</u>	<u>Running Surface (ft)</u>	<u>Total Stations</u>	<u>\$/Station</u>	<u>Sub-Total</u>
L-1720	Optional	5	5	1.25	12	9.43	\$100.00	\$943.00

CLEAR AND GRUB TOTAL = \$943.00

EXCAVATION

<u>Road</u>	<u>Type</u>	<u>Average Side Slope (%)</u>	<u>Material Type</u>	<u>Production Factor</u>	<u>Running Surface (ft)</u>	<u>Total Stations</u>	<u>\$/Station</u>	<u>Sub-Total</u>
L-1720	Optional	5	Common Soil	1.25	12	9.43	\$93.75	\$884.06

GRADE, SHAPE AND COMPACT SUBGRADE

<u>Total Stations</u>	<u>Cost/Station</u>						<u>Sub-Total</u>
9.43	\$32.49						\$306.38

SOIL EROSION CONTROL

<u>Total Stations</u>	<u>Average Width (ft)</u>	<u>Application Rate (lbs/ac)</u>	<u>Seed Quantity (lbs)</u>	<u>Material Cost (\$/lb)</u>	<u>Application Cost (\$/sta)</u>		<u>Sub-Total</u>
9.43	30	50	32	\$2.85	\$12.50		\$209.08

EXCAVATION TOTAL = \$1,399.52

CULVERTS

<u>Description</u>	<u>Dia (inches)</u>	<u>Length (feet)</u>	<u>Downspt. (ft)</u>	<u>Cost/ft</u>	<u>Straw Bales</u>	<u>\$/Bale</u>	<u>Markers (\$)</u>	<u>Sub-Total</u>
X-Drain	18	60	0	\$23.11				\$1,386.60

CULVERT TOTAL = \$1,386.60

MAINTENANCE COSTS

SALE NAME: DREAMER VRH

Page 4 of 8

CONTRACT NUMBER: 30-100846

MAINTENANCE ACTIVITY TYPE

	<u>\$/Station</u>	<u>Total Stations</u>	<u>Sub-Total</u>
Grade, shape, and compact existing surface	\$32.49	51.70	\$1,679.73
Light brushing	\$24.62	27.00	\$664.74

MISC TOTAL = \$2,344.47

SURFACING COSTS

SALE NAME: DREAMER VRH

CONTRACT NUMBER: 30-100846

<u>Source No.</u>	<u>Pit Name</u>	<u>Base Cost (\$/yd³)</u>	<u>Application Cost (\$/yd³)</u>
Rock Source No. 2	MTN. TOP QUARRY	\$16.80	\$2.00

NOTE: MTN. TOP QUARRY IS A COMMERCIAL SOURCE LOCATED AT 18601 NE YACOLT MTN. RD. YACOLT, WA 98675. BASE COST REPRESENTS THE PURCHASE PRICE PLUS SALES TAX USING 1.3 TON TO YARDAGE FACTOR.

<u>Road Name</u>	<u>Type</u>	<u>Total Length (sta)</u>	<u>Rock Source</u>	<u>Optional Rock</u>	<u>Rock Product</u>	<u>Haul Cost (\$/yd³)</u>	<u>Crushing Cost (\$/yd³)</u>	<u>Cubic Yards</u>	<u>Sub-Total</u>
DV-130	Maintenance	12.37	Rock Source No. 2	--	1¼" Minus	\$15.65	--	100	\$3,445.00
L-1300	Maintenance	22.47	Rock Source No. 2	--	1¼" Minus	\$16.30	--	100	\$3,510.00

<u>Type</u>	<u>Total</u>
Construction	\$0.00
Reconstruction	\$0.00
Maintenance	\$6,955.00

BALLAST COSTS

SALE NAME: DREAMER VRH

CONTRACT NUMBER: 30-100846

<u>Source No.</u>	<u>Pit Name</u>	<u>Base Cost (\$/yd³)</u>	<u>Application Cost (\$/yd³)</u>
Rock Source No. 1	L-1100 PIT	\$8.42	\$2.00

<u>Road Name</u>	<u>Type</u>	<u>Total Length (sta)</u>	<u>Rock Source</u>	<u>Optional Rock</u>	<u>Rock Product</u>	<u>Haul Cost (\$/yd³)</u>	<u>Crushing Cost (\$/yd³)</u>	<u>Cubic Yards</u>	<u>Sub-Total</u>
DV-130	Maintenance	12.37	Rock Source No. 1	--	4" Minus	\$4.51	\$4.00	495	\$9,370.35
DV-131	Construction	4.78	Rock Source No. 1	--	4" Minus	\$4.64	\$4.00	410	\$7,814.60
L-101	Construction	1	Rock Source No. 1	Optional	4" Minus	\$5.75	\$4.00	97	\$1,956.49
L-1300	Maintenance	22.47	Rock Source No. 1	--	4" Minus	\$4.53	\$4.00	500	\$9,475.00
L-1301A	Maintenance	16.86	Rock Source No. 1	--	4" Minus	\$4.78	\$4.00	200	\$3,840.00
L-1301A	Construction	11.51	Rock Source No. 1	--	4" Minus	\$5.28	\$4.00	805	\$15,858.50
L-1720	Reconstruction	9.43	Rock Source No. 1	Optional	4" Minus	\$6.42	\$4.00	674	\$14,046.16
Armoring	Construction	--	Rock Source No. 1	--	SPR	\$6.42	\$0.00	3	\$200.52

<u>Type</u>	<u>Total</u>
Construction	\$25,830.11
Reconstruction	\$14,046.16
Maintenance	\$22,685.35

ROAD CLOSURE COSTS

SALE NAME: DREAMER VRH

CONTRACT NUMBER: 30-100846

<u>Road</u>	<u>From Station</u>	<u>To Station</u>	<u>Total Stations</u>	<u>Type</u>
DV-131	4+78	24+47	19.69	Medium
L-1101	1+00	30+03	29.03	Light

<u>Description</u>	<u>Cost/Station</u>	<u>Total Stations</u>	<u>Sub-Total</u>
Water barring	\$32.36	29.03	\$939.41
Wood placement	\$30.00	48.72	\$1,461.60
Cross drain removal and disposal	\$6.17	48.72	\$300.60
Road surface ripping	\$17.25	19.69	\$339.65
Earthen barricade	\$85.00	2.00	\$170.00

SOIL EROSION CONTROL

<u>Total Stations</u>	<u>Average Width (ft)</u>	<u>Application Rate (lbs/ac)</u>	<u>Seed Quantity (lbs)</u>	<u>Material Cost (\$/lb)</u>	<u>Application Cost (\$/sta)</u>	<u>Sub-Total</u>
48.72	15	50	84	\$2.85	\$12.50	\$848.40

TOTAL = \$4,059.66

Overhead & General Exp. Add 10% **\$405.97**

<u>Description</u>	<u>\$ per Move</u>	<u># of Moves</u>	<u>Sub-total</u>
Dump Trucks	100	1	\$100
Excavator	1,000	1	\$1,000
Total Mobilization =			\$1,100

ROAD CLOSURE TOTAL = \$5,565.63

MOBILIZATION COSTS

SALE NAME: DREAMER VRH

CONTRACT NUMBER: 30-100846

LOWBOY HAUL (Round Trip)		
<u>DIST. (mi)</u>	<u>ROADWAY</u>	<u>AVE SPEED (mph)</u>
40.0	Highway	35
10.0	County/ Mainline	25
10.0	Forest Roads	5

<u>Number of Equipment to Mobilize</u>	<u>Equipment Description</u>	<u>Move-in Costs (\$)</u>	<u>Pilot Cars</u>	<u>Mobilization (\$/mile)</u>	<u>Begin Mileage</u>	<u>End Mileage</u>	<u>Total Miles</u>	<u>Internal Mobilization Costs (\$/mile)</u>	<u>Sub-total Cost</u>
0	Brush Cutter	\$500.00		\$22.00	0.00	0.00	0.00	\$0.00	\$0.00
1	Graders	\$1,132.00		\$52.25	0.00	6.75	6.75	\$352.69	\$1,484.69
0	Loader (Small)	\$1,132.00		\$26.00	0.00	0.00	0.00	\$0.00	\$0.00
1	Loader (Med. & Large)	\$1,132.00		\$29.00	0.00	0.00	0.00	\$0.00	\$1,132.00
1	Rollers & Compactors	\$1,132.00		\$36.67	0.00	6.75	6.75	\$247.52	\$1,379.52
0	Excavators (Small)	\$1,132.00		\$22.00	0.00	0.00	0.00	\$0.00	\$0.00
1	Excavators (Med.)	\$1,132.00		\$29.00	0.00	0.00	0.00	\$0.00	\$1,132.00
1	Excavators (Large)	\$1,000.00	2	\$115.00	0.00	6.75	6.75	\$776.25	\$1,853.39
0	Tired Backhoes/Skidders	\$1,132.00		\$30.00	0.00	0.00	0.00	\$0.00	\$0.00
1	Tractors (D6)	\$1,132.00		\$43.24	0.00	0.00	0.00	\$0.00	\$1,132.00
0	Tractors (D7)	\$1,132.00		\$30.00	0.00	0.00	0.00	\$0.00	\$0.00
1	Tractor (D8)	\$1,132.00	2	\$84.00	0.00	6.75	6.75	\$567.00	\$1,776.14
4	Dump Truck (10 cy)	\$100.00		\$9.80	0.00	6.75	6.75	\$264.60	\$1,458.40
0	Dump Truck (Off-Highway)	\$1,124.93		\$29.00	0.00	0.00	0.00	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$10.00	0.00	0.00	0.00	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$0.00		\$10.50	0.00	0.00	0.00	\$0.00	\$0.00
1	Move In/Set-up 2 Stage Crusher	\$5,000.00	2	\$422.85	0.00	0.00	0.00	\$0.00	\$5,000.00

TOTAL MOVE-IN COSTS: \$16,348.14



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

Construction: linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: linear feet
Road to be reconstructed (optional and required) but not abandoned

Abandonment: linear feet
Abandonment of existing roads not reconstructed under the contract

Decommission: linear feet
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: linear feet
Roads to be constructed (optional and required) and then abandoned

Temporary Reconstruction: linear feet
Roads to be reconstructed (optional and required) and then abandoned

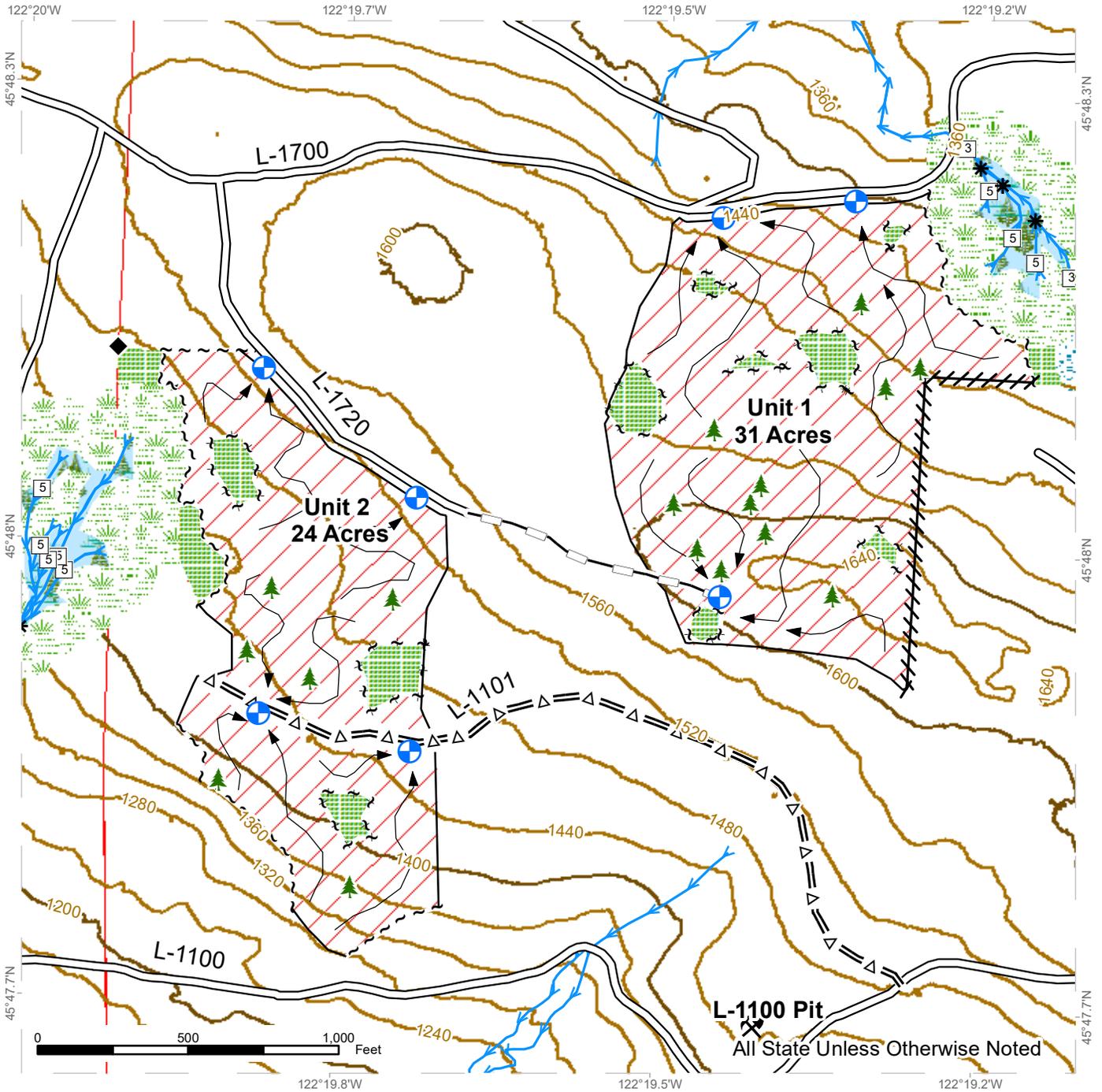
All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829.

(Revised 9/18)

LOGGING PLAN MAP

SALE NAME: DREAMER VRH
AGREEMENT#: 30-100846
TOWNSHIP(S): T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 840-1506



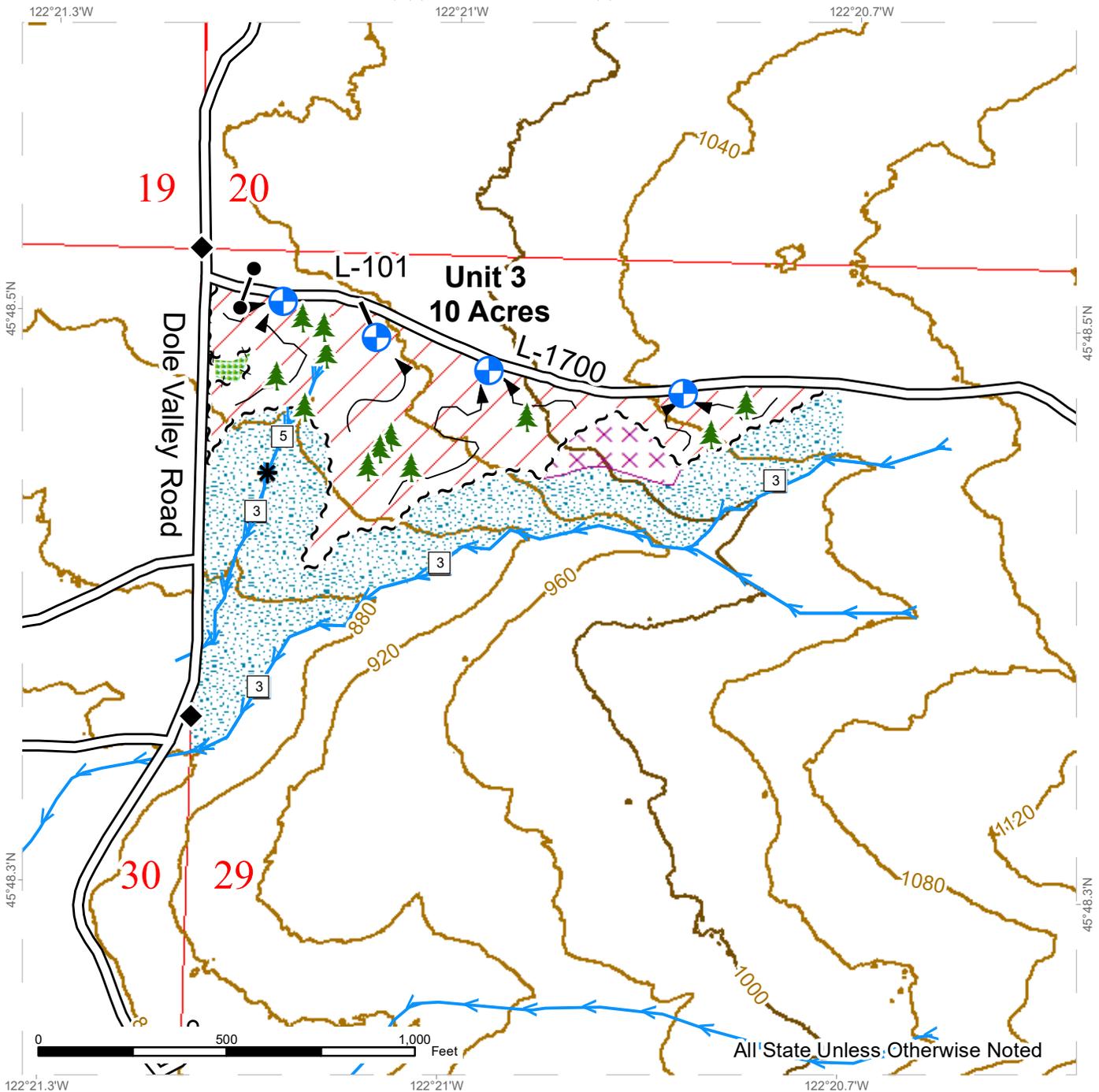
~ ~ ~	Sale Boundary Tags		Leave Tree Area		Existing Roads
—	Timber Type Change		Riparian Mgt Zone		Optional Pre-Haul Maintenance
~ ~ ~	Leave Tree Tags		Forested Wetland		Optional Reconstruction
////	Flag Line		Wetland Mgt Zone		Landing - Proposed
	Streams		Ground Harvest		Leave Tree Area <1/4-acre
	Stream Type		Rock Pit		Survey Monument
*	Stream Type Break				



LOGGING PLAN MAP

SALE NAME: DREAMER VRH
AGREEMENT#: 30-100846
TOWNSHIP(S): T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 840-1506



All State Unless Otherwise Noted

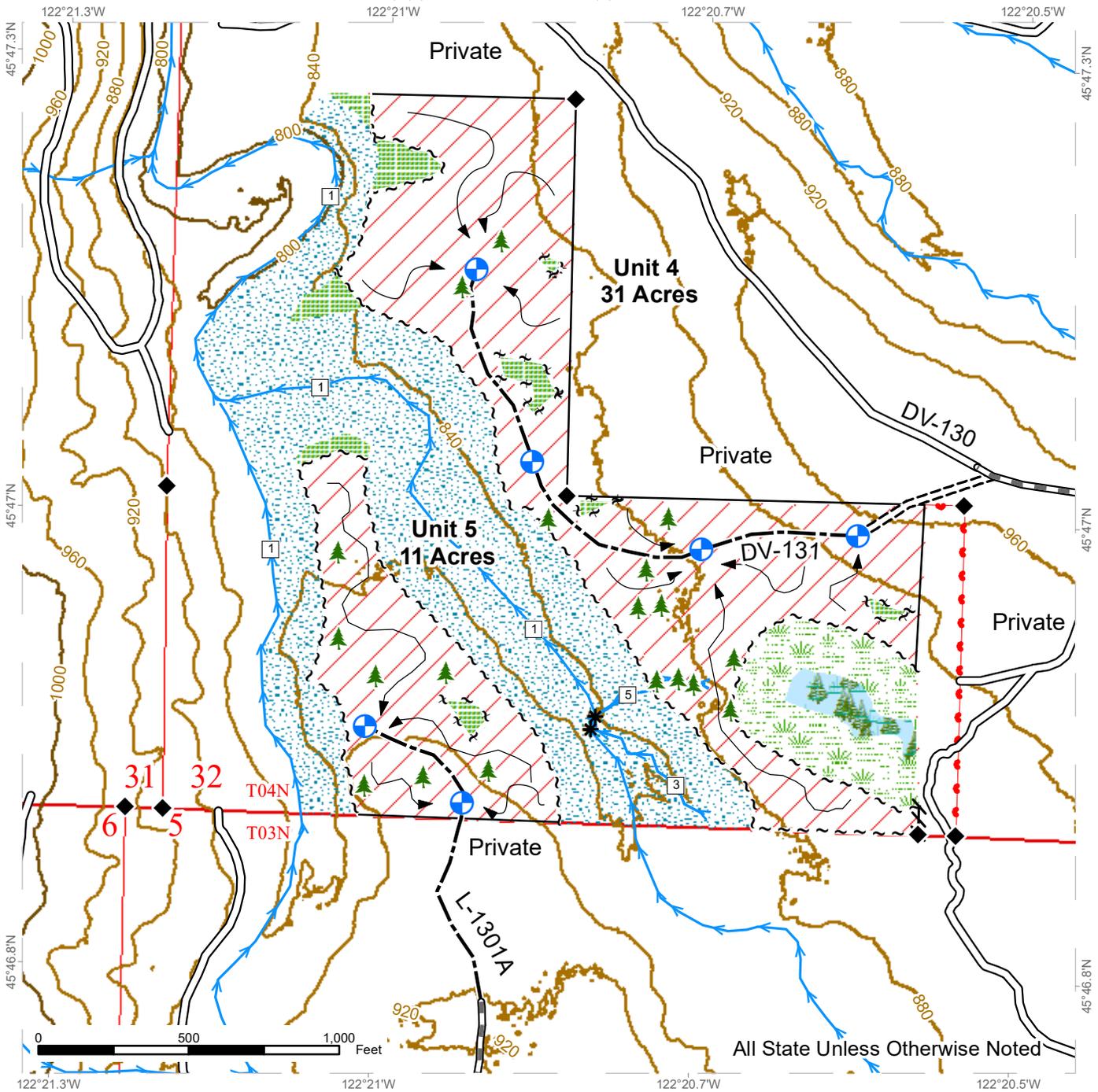
~ ~ ~ Sale Boundary Tags	Leave Tree Area	Existing Roads
~ ~ ~ Leave Tree Tags	Riparian Mgt Zone	Optional Construction
Streams	Potentially Unstable Slopes	Landing - Proposed
Stream Type	Ground Harvest	Leave Tree Area <1/4-acre
Stream Type Break		Survey Monument



LOGGING PLAN MAP

SALE NAME: DREAMER VRH
AGREEMENT#: 30-100846
TOWNSHIP(S): T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 840-1506



~ ~ ~	Sale Boundary Tags		Leave Tree Area		Existing Roads
—	Timber Type Change		Riparian Mgt Zone		Required Pre-Haul Maintenance
~ ~ ~	Leave Tree Tags		Forested Wetland		Required Construction
• • •	Property Line		Wetland Mgt Zone		Optional Construction
////	Flag Line		Ground Harvest		Landing - Proposed
	Streams				Leave Tree Area <1/4-acre
	Stream Type				Survey Monument
*	Stream Type Break				



ROAD USE PERMIT

Permit No. 55-100595

THIS PERMIT, made and entered into this 13th day of March 2020, by and between the State of Washington, acting by and through the Department of Natural Resources (herein called the "Grantee") and Andrew Muonio and Greg Ek (herein called the "Grantor")

Conveyance. Grantor, for and in consideration of the terms and conditions specified herein, hereby grants and conveys to the Grantee, for the purpose of hauling forest products a non-exclusive permit to build use a road over and across a strip of land 30 feet in width, hereinafter defined as the "premises," in portion of the SE/4 and SW/4 of Section 32, Township 04 North, Range 04 East, W.M. in Clark County, State of Washington. The location of said premises located approximately as shown on Exhibit A attached hereto. The word premises when used herein means a strip of land whether or not there is an existing road located thereon. The word "road" shall mean roads now existing or hereafter constructed on the premises, or any segment of such road.

The permit is subject to the terms and conditions hereinafter set out.

Consideration. The consideration paid by the Grantee to Grantor is as follows: Twenty thousand and 00/100 dollars (\$20,000.00). The consideration is not due until thirty days after the Grantee enters into a timber sale contract for the Dreamer Timber Sale. Prior to payment, Grantee shall be limited to administrative use of the road. No commercial hauling will occur until the consideration is paid in full. Consideration is for use of 0.28 miles of road to facilitate log haul and silviculture activities (i.e. planting).

In the event that the Grantee is granted a perpetual easement over this road within two (2) years of the termination date of this permit, the Grantee shall be entitled to a credit in the amount of twenty-thousand and 00/100 dollars (\$20,000.00), which shall be applied to the consideration to be paid for the easement.

Term-Date of Expiration. This permit shall begin on 11/19/2020 and terminate 05/31/2024, or earlier when requested by the Grantee; provided, however, that this permit may be suspended or terminated upon the breach of any of the conditions herein.

Reservations. Grantor reserves all rights incident to fee ownership of the premises and the profits thereon (including timber) and the right of use for any purpose including but not limited to the right to remove profits within the premises; the right at all times to cross and re-cross the premises at any place on grade or otherwise; and the right to use, maintain, patrol, reconstruct or repair the premises. Grantor may grant to third parties any and all rights reserved.

Compliance with Laws. For all activities conducted pursuant to this Permit, each party shall, at its own expense, comply with all applicable laws in effect now and as hereafter modified.

Permittees. The Grantee may permit its respective employees, agents, contractors, licensees, lessees, purchasers of timber or other profits and their agents, herein individually referred to as "Permittee" and collectively referred to as "Permittees", to exercise the rights granted to the Grantee herein. Acts or omissions of the Permittees operating under this Permit shall be deemed an act of the Grantee. Restrictions or requirements placed on the Grantee herein shall apply equally to the Permittees.

Maintenance. Maintenance is defined as work normally necessary to preserve and keep the roads in their present condition or as hereafter improved. At a minimum, the roads will be maintained to meet applicable forest practice standards set forth in Chapter 222-24 WAC as now written or hereafter amended.

When a road is being used solely by one party; that party shall be solely responsible for maintaining that portion of the road so used to the standards existing at the time sole use is commenced. During periods when either party and/or other parties with an easement or license jointly use the road(s), or any portion thereof, the cost of maintenance and resurfacing shall be allocated among such users on the basis of their respective use including that of their Permittees.

During periods of joint maintenance, the users shall meet at times to be set by mutual agreement and establish necessary maintenance provisions. Such provisions shall include, but not be limited to the following:

The appointment of a maintainer, which may be one of the parties or any third party, to perform or contract the maintenance;

The extent of resurfacing necessary to keep the road safe and to reduce environmental impacts; and

A method of payment by which each party using the road or a portion thereof shall pay its pro rata share of the cost of maintenance and resurfacing.

Repairs. Grantee shall repair, or cause to be repaired at its sole cost, that damage to the Road arising out of its use which is in excess of that which it would cause through normal and prudent usage. Damage caused by an unauthorized user shall be repaired at the expense of the Grantee if the Grantee is the sole user of the road, the Grantor if the Grantor is the sole user of the road and shared jointly if there is joint use of the road.

Improvements. Unless the parties agree in writing to share the cost of improvements in advance

of such improvements being made, such improvements shall be solely for the account of the improver.

Prior rights. This permit is subject to any rights and valid claims previously conveyed by Grantor, and to any rights and valid claims pending on said premises. Grantee rights herein are subject to all matters of public record and to all prior unrecorded or recorded easements, permits, leases and options affecting said lands or Grantee rights across, over or upon such lands. Grantee rights herein are also subject to the rights of the Grantor to use its own lands for any and all legal purposes including the use of the land by third parties with the permission of the Grantor.

Operational Restrictions. Site-specific operational requirements are listed in Exhibit C. Non-compliance with these requirements shall constitute a breach of contract and may result in the Grantor suspending operations until the breach is remedied.

Damage. Grantee shall take all reasonable precautions to protect Grantor-owned timber, crops and improvements. The Grantee must notify the Grantor two (2) weeks in advance of completion of said operations for the purpose of inspection for compliance with the terms hereof. Grantee shall pay Grantor for any damage to timber, crops and improvements not identified and paid for under the terms and conditions of this Permit. Grantor shall appraise the damage at market value at the time of damage and bill Grantee for said damages at said value.

Waste. Grantee shall not cause nor permit any filling activity to occur in or on the premises, except by prior written approval of the Grantor. Grantee shall not deposit refuse, garbage, or other waste matter or use, store, generate, process, transport, handle, release, or dispose of any hazardous substance, or other pollutants in or on the premises except in accordance with all applicable laws. The term hazardous substance means any substance or material as those terms are now or are hereafter defined or regulated under any federal, state, or local law including but not limited to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA 42 USC 9601 *et seq.*), or the Washington Model Toxic Control Act (MTCA RCW 70.105D.010.). Grantee shall immediately notify the Grantor if the Grantee becomes aware of any release or threatened release of hazardous substance on the premises or adjoining property. If a release of hazardous substance occurs in, on, under, or above the premises arising out of any action of the Grantee, its contractors, subcontractors, invitees, agents, employees, licensees, or permittees, the Grantee shall, at its sole expense, promptly take all actions necessary or advisable to clean up, contain, and remove the hazardous substance in accordance with applicable laws.

Survey Markers. Grantee shall not destroy any land survey monuments marking local control points, geodetic control points, and land boundary survey corners without prior written approval from the landowner, which shall not be unreasonably withheld. Land survey monuments that must necessarily be disturbed or destroyed during construction or maintenance activities must be adequately referenced and replaced, at the Grantee's expense, under the direction of a

Professional Land Surveyor, licensed in the State of Washington, in accordance with all applicable laws of the State of Washington in force at the time of construction, including but not limited to RCW 58.24, and all Department of Natural Resources regulations pertaining to preservation of such monuments. As directed under Chapter 332-120 WAC, a Land Surveyor or Engineer must submit an application with the Department of Natural Resources for permission to temporarily remove or destroy a survey monument.

Fire Prevention and Control. The Grantee shall be responsible for satisfying the requirements of the laws of the State of Washington pertaining to Forest Protection and, in addition thereto, the Grantee shall during the closed season of April 15 through October 15 contact Grantor who shall determine any extra requirements pertaining to burning procedure, blasting, watchman, extra patrol, pumpers, tankers, fire hoses, fire tools, etc., which are deemed necessary for prevention and suppression of fire which may result from the Grantee's operations.

Insurance by the State. The State of Washington, including all its agencies and departments, is self-insured for all exposures to tort liability, general liability, property damage liability and vehicle liability, as provided in statute, but only as respects the negligence of the State.

The limits of insurance shall not be less than as follows:

Commercial General Liability (CGL) insurance with a limit of not less than \$1,000,000 per each occurrence or Personal Liability insurance, as applicable, under a personal liability policy, commercial liability insurance policy, or package property and liability insurance policy. If such CGL insurance contains aggregate limits, the general aggregate limits shall be at least twice the "each occurrence" limit, and the products-completed operations aggregate limit shall be at least twice the "each occurrence" limit.

Employer's liability ("Stop Gap") insurance, and if necessary, commercial umbrella liability insurance with limits not less than \$1,000,000 each accident for bodily injury by accident or \$1,000,000 each employee for bodily injury by disease.

Business Auto Policy (BAP) insurance, and if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 per accident, with such insurance covering liability arising out of "Any Auto".

All contractors, subcontractors, or other permittees of the State must comply with all State of Washington workers' compensation statutes and regulations.

All insurance should be purchased on an occurrence basis and should be issued by companies admitted to do business within the State of Washington and have a rating of A- or better in the most recently published edition of Best's Reports. Any exception to the State's

requirements shall be reviewed and approved in advance by the Risk Manager for the Department of Natural Resources. If an insurer is not admitted, all insurance policies and procedures for issuing the insurance policies must comply with Chapter 48.15 RCW and 284-15 WAC.

Before using any said rights granted herein, Grantee shall furnish Grantor with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified above. Certificate(s) must reference the State's permit number.

Contractors, sub-contractors and permittees of Grantee must comply with all insurance requirements stated herein. Failure of contractors, sub-contractors and permittees to comply with State's insurance requirements does not limit Grantee liability or responsibility.

Grantee shall furnish upon request certificates of insurance and endorsements for any or all Permittees.

All insurance provided by the Grantee in compliance with this agreement shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Grantee waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this agreement.

Indemnity by the State. State shall defend, indemnify and hold harmless the Grantor from all claims that arise out of the negligence of the State or its Permittees in the use of the permit. A "claim" as used in this section means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property including the resulting loss of use. Notwithstanding the foregoing, States obligation to defend, indemnify, and hold harmless the Grantor from any judgment, decree or arbitration award shall extend only to the percentage of negligence of Grantee and its Permittee in contribution to such claim. State waives its immunity under Title 51 RCW only to the extent it is required to indemnify, defend and hold harmless Grantor and its Permittee. This indemnification shall survive the expiration or termination of the permit.

Notice. Unless otherwise specified herein, any notices required or permitted under this Permit may be delivered personally, sent by facsimile machine or mailed certified, return receipt requested, to the following addresses or to such other place as the parties hereafter direct. Notice will be deemed given upon delivery or upon confirmation of facsimile, whichever is applicable.

To Grantee:
DEPARTMENT OF NATURAL RESOURCES
Pacific Cascade Region
P.O. Box 280
Castle Rock, WA 9861

To Grantor:
Greg Ek & Andrew Muonio
19734 NE 259th.
Battle Ground, WA 98604

Integrated Agreement; Modification. This Permit constitutes the entire agreement and understanding of the parties with respect to the subject matter of the Permit and supersedes all prior negotiations and representations. This Permit may not be modified except in writing signed by the parties. The parties agree to execute any additional documents reasonably necessary to effectuate the provisions and purposes of this Permit.

Severability. If any provision of this Permit is held to be invalid or unenforceable, this provision shall not affect or invalidate the remainder of this Permit, and to this end the provisions of this Permit are declared to be severable. If any such invalidity becomes known or apparent to the parties, the parties agree to negotiate promptly in good faith in an attempt to amend such provision as nearly as possible to be consistent with the intent of this Permit.

Waiver. Failure of either party to insist upon the strict performance of any of the terms and conditions of this Permit, or failure to exercise any rights or remedies provided in this Permit or by law, or to notify the other party in the event of breach, shall not release the other party of any of its obligations under this Permit, nor shall any purported oral modification or rescission of this Permit by either party operate as a waiver of any of the terms hereof. No waiver by either party of any breach, default, or violation of any term, warranty, representation, agreement, covenant, right, condition, or provision of this Permit shall constitute waiver of any subsequent breach, default, or violation of the same or other term, warranty, representation, agreement, covenant, right, condition, or provision.

Assignment. This Permit, and any of the rights granted herein, shall not be assigned without prior written consent of Grantor, except that said rights granted herein may be used by any Permittee, while engaged in the Grantee's operations.

Construction. The terms of this Permit shall be given their ordinary meaning unless defined herein and shall not be presumptively construed against either party.

Exhibits. All exhibits referred to in this Permit are deemed to be incorporated in this Permit in their entirety.

Headings. The headings in this Permit are for convenience only and are not intended to, and

shall not be construed to, limit, enlarge, or affect the scope or intent of this Permit nor the meaning of any of its provisions.

Counterparts. This Permit may be executed in one or more counterparts, each of which shall be deemed an original, and all of which counterparts together shall constitute the same instrument which may be sufficiently evidenced by one counterpart. Execution of this Permit at different times and places by the parties shall not affect its validity so long as all the parties execute a counterpart of this Permit.

IN WITNESS WHEREOF, the parties hereto have caused this Permit to be executed as below subscribed.

WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES

Eric Wisch

By: Eric Wisch

GRANTOR

Andrew W. Muonio

By: Andrew Muonio

Greg Ek

By: Greg Ek

Title: Pacific Cascade Region Manager

Title: Owner ANDREW W. MUONIO

Address: P.O. Box 280
Castle Rock, WA 98611

Address: 19734 NE 259th.
Battle Ground, WA 98604

Phone No: 360-577-2025

Phone No: ~~360-573-2750~~ 360-607-0432

Date: 3/25/2020

Date: 3/24/2020

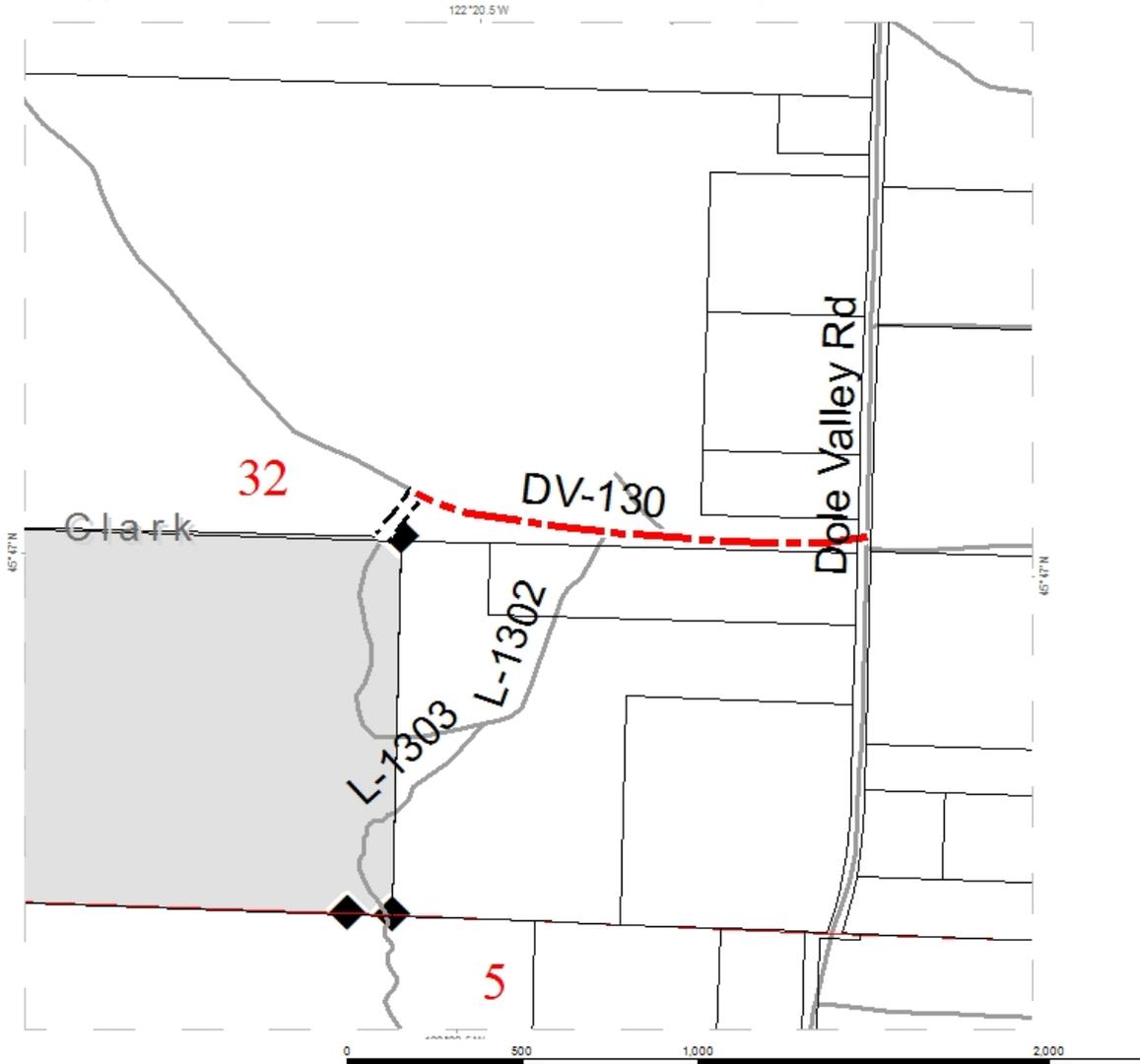
Exhibit A
Legal Description

**Portions of the SE/4 and Portions of the SE/4SW/4 of Section 32, Township 04 North,
Range 04 East, W.M., Clark County, Washington.**

EXHIBIT B

AGREEMENT #: 55-100595
TOWNSHIP(S): S32 T04R04E
TRU ST(S):

REGION: PACIFIC CASCADE
COUNTY(S): CLARK
MILES: 0.28



Legend:

- DNR Trust Lands
- RUP Existing Road
- - - New Construct

Prepared By: rpit490

Modification Date: rpit490 3/13/2020



Exhibit C
Additional Conditions

- **Gate must remained closed at all times.**
- **Pre-Haul: Spot patching with approximately 500 cubic yards of 4-inch minus crushed.**
- **Post-Haul: Spot patching with a 3-inch lift of 1 ½ inch minus from a commercial source.**
- **Log haul will only occur during the dry season of June 1st to September 30th.**