



TIMBER NOTICE OF SALE

SALE NAME: *LONE SPRUCE*

AGREEMENT NO: 30-102834

AUCTION: April 27, 2023 starting at 10:00 a.m.,
Southeast Region Office, Ellensburg, WA

COUNTY: Chelan

SALE LOCATION: Sale located approximately 6 miles southwest of Cashmere

**PRODUCTS SOLD
AND SALE AREA:**

All timber as described in Schedule A except leave trees marked with blue paint and all down timber greater than 10 inches in diameter bounded by timber sale boundary tags and pink flagging

All forest products above located on part(s) of Section 27 all in Township 23 North, Range 18 East, W.M., containing 106 acres, more or less.

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

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg DBH	Ring Count	Total MBF	Total Tons	Price \$/Ton	MBF by Grade								
						1P	2P	3P	SM	1S	2S	3S	4S	UT
Douglas fir	11		178	926	\$4.50							39	102	37
Grand fir	11		27	146	\$4.50							27		

Species	Avg DBH	Ring Count	Total MBF	Total Tons	Price \$/Ton	MBF by Grade								
						P	SM	1S	2S	3S	4S	5S	6S	UT
Ponderosa pine	8		105	672	\$2.00							105		
Sale Total			310	1,744										

MINIMUM BID: \$4.5/ton (est. value \$6,000.00)

BID METHOD: Sealed Bids

**PERFORMANCE
SECURITY:**

\$1,200.00

SALE TYPE: Tonnage Scale

EXPIRATION DATE: November 30, 2024

ALLOCATION: Export Restricted

BIDDABLE SPECIES: Grand fir, Douglas fir

BID DEPOSIT: \$5,000.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Falling and Yarding will not be permitted from March 1 to August 31 unless authorized in writing by the Contract Administrator in Unit 1 east of the C3000 road

ROADS: 7.19 stations of required construction. The hauling of forest products will not be permitted from December 1 to May 31 unless authorized in writing by the Contract Administrator on the C3000, C3100, C3001, C3002, C3003, C3004, and C3101 roads.



TIMBER NOTICE OF SALE

ACREAGE DETERMINATION

CRUISE METHOD: Acres were determined using a GPS system. Cruise was determined using a variable plot method and eastside log scaling rules.

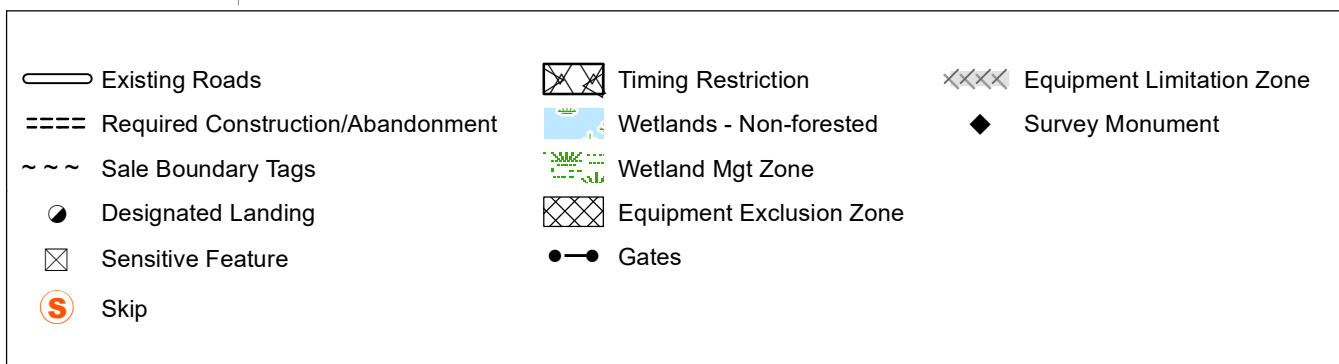
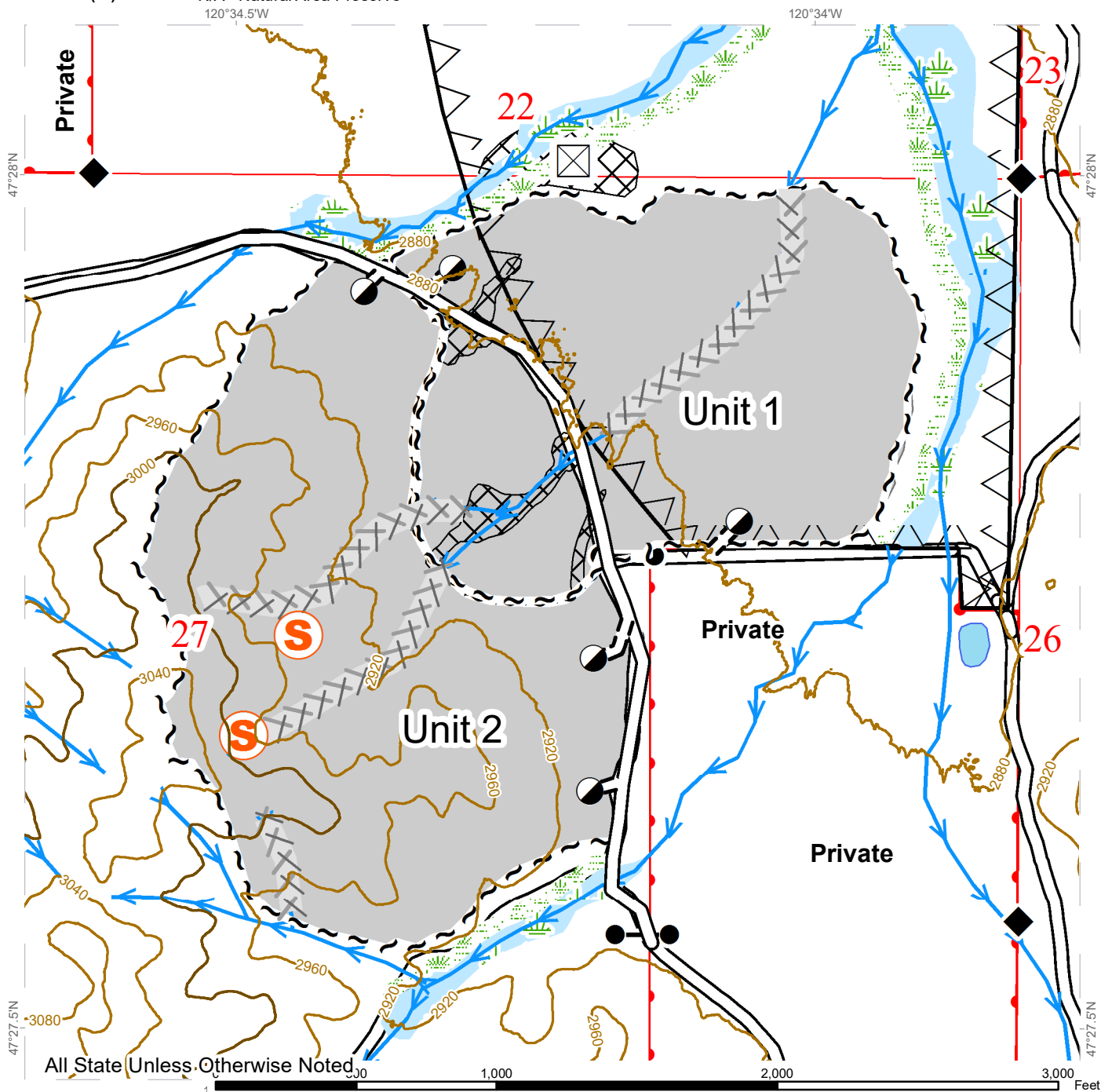
FEES: None

SPECIAL REMARKS: \$600 lump-sum payment for small diameter trees and tops not covered by the H-150 clause.

TIMBER SALE MAP

SALE NAME: Lone Spruce
 AGREEMENT #: None
 TOWNSHIP(S): T23R18E
 TRUST(S): N/A - Natural Area Preserve

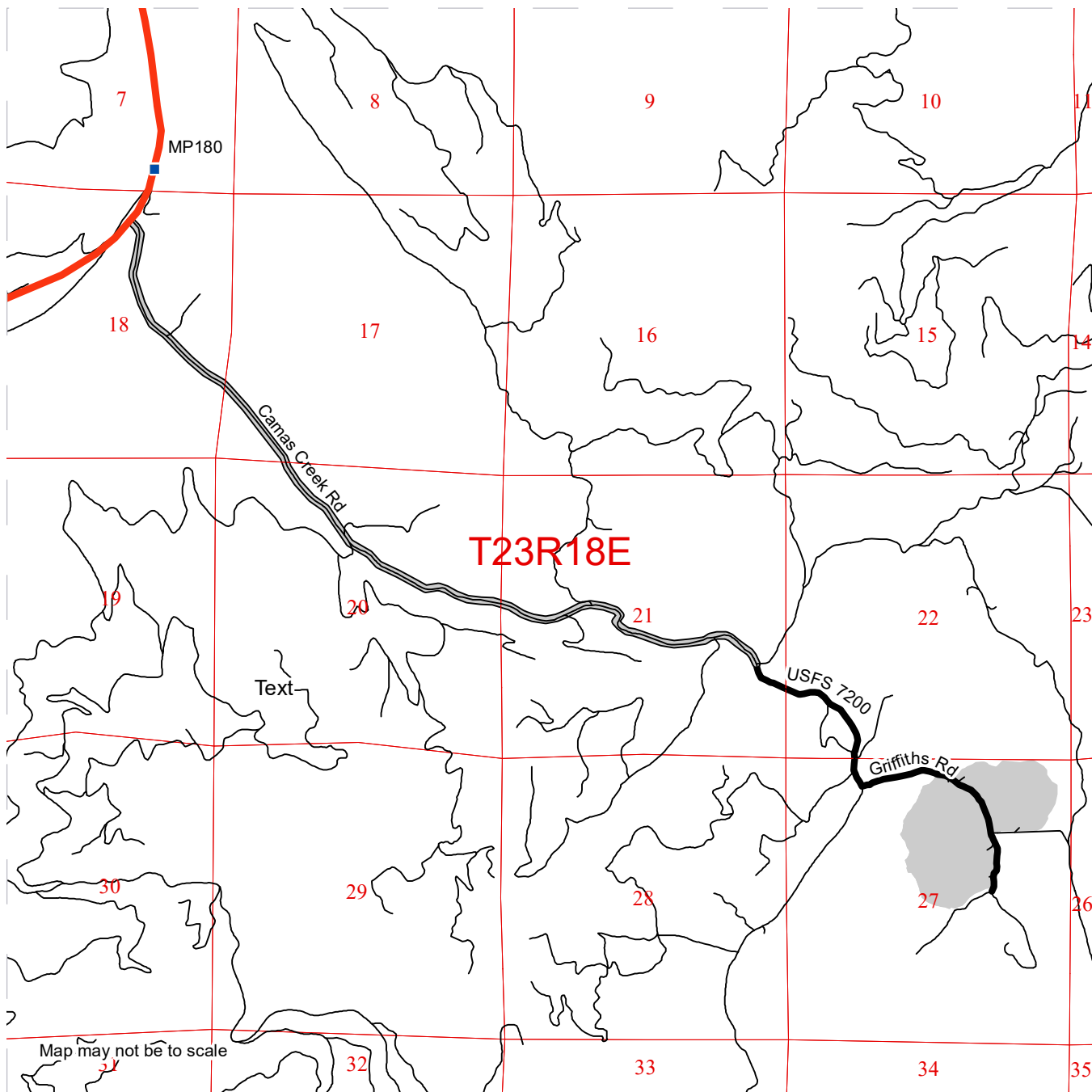
REGION: Southeast Region
 COUNTY(S): Chelan
 ELEVATION RGE: 2850-2950






DRIVING MAP

SALE NAME: LONE SPRUCE
AGREEMENT#: 30-102834
TOWNSHIP(S): T23R18E
TRUST(S): N/A - Natural Area Preserve

REGION: Southeast Region
COUNTY(S): Chelan
ELEVATION RGE: 2850-2950



-  Timber Sale Unit
-  Haul Route
-  Milepost Markers

DRIVING DIRECTIONS:

From Hwy 97, drive east on Camas Creek Rd for 3 miles to where the road "Y's and pavement ends. Stay right at the Y onto Forest Service Rd 7200. Drive south on 7200 for 0.7 miles. Turn left onto Griffiths Rd and drive east 0.5 miles.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Tonnage Scale AGREEMENT NO. 30-0102834

SALE NAME: LONE SPRUCE

**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-010 Products Sold and Sale Area

Purchaser was the successful bidder on April 27, 2023 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase, cut, and remove the following forest products: All timber as described in Schedule A except leave trees marked with blue paint and all down timber greater than 10 inches in diameter bounded by timber sale boundary tags and pink flagging, located on approximately 106 acres on part(s) of Section 27 in Township 23 North, Range 18 East W.M. in Chelan County(s) as shown on the attached timber sale map and as designated on the sale area.

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-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
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A

Harvest Prescription

G-030 Contract Term

Purchaser shall remove the forest products conveyed and complete all work required by this contract prior to November 30, 2024.

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-050 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 contract value based on the contract payment rate and advertised volume.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the contract value based on the contract payment rate base and advertised volume.

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 timber value of the contract.

To determine the unpaid portion of the contract, multiply the contract payment rate for each item by the remaining volume for each item based on the volumes from the Timber Notice of Sale. In addition, all cash deposits that can be used for timber payments, except the initial deposit, will be deducted from the unpaid portion of the contract.

- e. Payment of \$1.00 per acre per annum for the acres on which an operating release has not been issued .
- 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-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-090 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, added forest products become a part of this contract and shall be paid for at the same rate and manner as other forest products under this contract.

G-100 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 shall be paid for at the same rate and manner as other forest products under this contract.

G-110 Title and Risk of Loss

Title to the forest products conveyed passes at confirmation of the sale. Purchaser bears the risk of loss of or damage to and has an insurable interest in the forest products in this contract from the time of confirmation of the sale of forest products. In the event of loss of or damage to the forest products after passage of title, whether the cause is foreseeable or unforeseeable, the forest products shall be paid for by Purchaser. Breach of this contract shall have no effect on this provision. Title to the forest products not removed from the sale area within the period specified in this contract shall revert to the State as provided in RCW 79.15.100.

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 Purchaser's 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 Ellensburg, 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 Operations

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; C3000, C3100, C3001, C3002, C3003, C3004, C3101, and USFS 7200 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 C3000, C3100, and USFS 7200, unless authority is granted in writing by the Contract Administrator.

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: Road

In Favor of: Longview Fibre Company

Disclosed by Application No.: 50-053656

Granted: 12/21/1993

Expires: 12/21/2043

Easement, including the terms and provisions thereof,

For: Road

In Favor of: United States of America
Disclosed by Application No.: 50-054103
Granted: 6/10/1974
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: United States of America
Disclosed by Application No.: 50-054105
Granted: 11/29/1984
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Idaho Pine Timber Associates
Disclosed by Application No.: 50-071137
Granted: 12/4/1980
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Peshastin Lumber & Box Company
Disclosed by Application No.: 50-92108
Granted: 6/19/1946
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Peshastin Lumber & Box Company
Disclosed by Application No.: 50-92109
Granted: 12/6/1929
Expires: Indefinite

Special Notations: The tract book has a note: "Do Not Accept Applications." This sale unit is within the Larkspur Meadows NAP.

Section P: Payments and Securities

P-010 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 the 'Payment for Forest Products' clause, 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-024 Payment for Forest Products

Purchaser agrees to weigh all loads and pay the following rate per ton for forest products conveyed .

DATA MISSING

Species that are conveyed but are not listed in the table above shall be paid for at a rate to be determined by the State.

P-026 Lump Sum Payment on Day of Sale

On the day of sale Purchaser shall pay \$600.00 for small diameter trees and tops below the Required Removal Specification in H-150. The following contract clauses will not apply to the forest products referenced: H-150, H-151, D-030 and all "L" clauses.

P-040 Weighing and Scaling Costs

Purchaser agrees to pay for all scaling and weighing costs for logs and other products sold under this contract. Purchaser also agrees to pay for all costs associated with the transmission and reporting of scale or weight data.

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-052 Payment Procedure

If a third party Log and Load Reporting Service (LLRS) is required by this contract the State will compute and forward to the Purchaser statements of charges provided for in the contract. Purchaser shall deliver payment to the Southeast region office on or before the date shown on the billing statement.

If a third party LLRS is not required by this contract, Purchaser shall pay for forest products removed on a monthly basis. Payments will be submitted to the office listed above on or before the fourteenth of the month following the month in which the timber was removed or, according to an alternate payment schedule as approved by the State with at least one payment each month for timber removed. The alternate payment schedule, once approved by the State, shall become part of this contract and may be changed only with written approval of the State.

Payment will be based on the contract rate multiplied by the tons (tonnage contracts) or volume (mbf contracts) removed during the month or payment period. Included with the payment will be a summary report along with all related load tickets and the corresponding certified weight tickets for the payment period. The summary report will be generated using a computer spreadsheet and list the load tickets in ascending numerical order with the corresponding ticket number and weight or volume for each load.

P-070 Payment for Products: Damage, Theft, Loss, or Mismatch

Forest products included in this agreement which are destroyed, damaged, stolen, lost, or mismatched shall be paid for by Purchaser on demand of the State. The rates contained in clause P-024 shall apply.

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 \$1,200.00. 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 L: Log Definitions and Accountability

L-060 Load Tickets

Purchaser shall complete and use load tickets as directed by the Contract Administrator and, if required, use other identification as directed by the State to ensure accounting of forest products removed from the sale area. A load ticket must be fixed, as designated by the Contract Administrator, to each truck and trailer load prior to leaving the landing.

Purchaser shall account for all load tickets issued by the Contract Administrator and return unused tickets at termination of the contract, or as otherwise required by the Contract Administrator. Unused tickets not returned shall be subject to liquidated damages per clause D-030.

The State may also treat load tickets either not accounted for or not returned as lost forest products per clause P-070. All costs associated with computing the billings for lost forest products shall be borne by Purchaser

L-071 Log and Load Reporting Service

This contract requires the use of a State approved third party Log and Load Reporting Service (LLRS). Purchaser shall ensure log volume measurement data and/or load and weight data is received by the LLRS within 1 business day of logs being measured or weighed. Purchaser agrees to pay the LLRS for log and load data supplied to the State.

If during the term of this contract, the State discontinues use of the LLRS, the State will notify the Purchaser in writing and the Purchaser will then be responsible to send log scale and/or weight information to the State.

L-110 State Approval of Log Scaling and Weighing Locations

Forest Product measurement and weighing facilities required by this contract must be approved by the State. Forest products sold under the contract which require log scaling shall be scaled, measured, or counted by a State approved third party log scaling organization. Forest products sold under the contract which require weighing shall be weighed at a location that meets Washington State Department of Agriculture approval.

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or enroute to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

No operations shall occur outside the sale boundaries, as described within the contract, unless approved in writing by the State.

H-010 Cutting and Yarding Schedule

Falling and Yarding will not be permitted from March 1 to August 31 unless authorized in writing by the Contract Administrator.

H-011 Certification of Fallers and Yarder Operators

All persons engaged in the felling and yarding of timber must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that non-compliance of leave tree selection criteria or cut tree selection criteria is occurring, or excessive damage to leave trees or skid trails is occurring.

Excessive damage for leave trees is defined in clause H-012.

Excessive damage for reserve trees is defined in clause H-013.

Excessive skid trail damage is defined in clause H-015 or H-016.

When leave tree damage exceeds the limits set forth in clause H-012,

Purchaser shall be subject to liquidated damages (clause D-040)

When reserve tree damage exceeds the limits set forth in clause H-013,

Purchaser shall be subject to liquidated damages (clause D-041).

H-012 Leave Tree Damage Definition

Leave trees are trees required for retention within the sale boundary. Purchaser shall protect leave trees from being cut, damaged, or removed during operations.

Leave tree damage exists when more than 5 percent of the leave trees are damaged in a unit and when one or more of the following criteria occur as a result of Purchaser's operation, as determined by the Contract Administrator:

- a. A leave tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.
- b. A leave tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A leave 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 leave tree has been cut or damaged, the Purchaser may be required to pay liquidated damages for Excessive Leave Tree Damage as detailed in clause D-040.

H-015 Skid Trail Requirements

A skid trail is defined as an area that is used for more than three passes by any equipment.

Purchaser shall comply with the following during the yarding operation:

- a. Skid trails will not exceed 16 feet in width, including rub trees.
- b. Skid trails shall not cover more than 20 percent of the total acreage on one unit.
- c. Skid trail location will be pre-approved by the Contract Administrator.
- d. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.
- e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.

- f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.
- g. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.

Purchaser shall not deviate from the requirements set forth in this clause without prior written approval from the Contract Administrator.

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 4 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-025 Timing Requirements for Timber Removal

All timber must be removed within 30 days of being felled.

H-030 Timber Falling

Trees shall be felled and logs shall be bucked to obtain the greatest practicable utilization of forest products and other valuable materials conveyed.

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 cutting prescription, 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-050 Rub Trees

Trees designated for cutting along skid trails and cable corridors shall be left standing as rub trees until all timber that is tributary to the skid trail or cable corridor has been removed.

H-052 Branding and Painting

Forest products shall be branded with a brand furnished by the State prior to removal from the landing. 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-060 Skid Trail Locations

Locations of skid trails must be marked by Purchaser and approved by the Contract Administrator prior to the felling of timber.

H-110 Stump Height

Trees shall be cut as close to the ground as practicable. Stump height shall not exceed 12 inches in height measured on the uphill side, or 2 inches above the root collar, whichever is higher.

H-120 Harvesting Equipment

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

H-130 Hauling Schedule

The hauling of forest products will not be permitted C3000, C3100, C3001, C3002, C3003, C3004, and C3101 roads from December 1 to May 31 unless authorized in writing by the Contract Administrator.

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.

Equipment Limitation Zones are required within 30 feet of Type 5 streams.

Crossings of Type 5 streams may be allowed at locations approved in writing by the Contract Administrator. Purchaser shall place a log puncheon at crossing locations to protect the stream bank and prevent sedimentation. All materials placed in and/or over the stream at these crossings shall be removed immediately upon completion of yarding on that skid trail.

Utility wood must be removed from the landings. Forest products designated as utility shall be decked separately from forest products designated as required for removal. Prior to removal from the sale area, utility wood must be inspected and approved by the Contract Administrator. Utility wood may not be mixed with forest products that are required for removal by this contract and shall be removed from the sale area in separate truck loads using load tickets supplied by the Purchaser.

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

H-142 Wildlife Timing Restrictions

The following wildlife timing restrictions apply to this contract and shall be in place in the locations shown on the attached timber sale map.

Northern Spotted Owl - Timing restrictions are described as no operation of heavy equipment within the critical nesting season (March 1 to August 31). Heavy equipment is identified as felling, yarding, and loading equipment for logging, and road maintenance and construction equipment in Unit 1 east of the C3000 road.

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

H-150 Required Removal of Forest Products

Purchaser shall remove from the sale area and present for scaling or weighing all forest products conveyed in the G-010 clause that meet the following minimum dimensions:

Species	Net bd ft	Log length (ft)	Log dib
Conifer	20	16	6

The State may treat failure to remove forest products left on the sale area that meet the above specifications as a breach of this contract. At the State's option, forest products that meet the above specifications and are left on the sale area may be scaled for volume or measured and converted to weight by the State or a third party scaling organization and billed to Purchaser at the contract payment rate. All costs associated with scaling, measuring and computing the billing will be borne by the Purchaser.

H-160 Mismanufacture

Mismanufacture is defined as forest products remaining on the sale area that would have met the specifications in clause H-150 if bucking lengths had been varied to include such products.

The State may treat mismanufacture as a breach of this contract. At the State's option, forest products that are left on the sale area may be scaled for volume by the State or a third party scaling organization and billed to Purchaser at the contract payment rate. All costs associated with scaling and computing the billing will be borne by Purchaser.

H-170 Utility Log Removal

All utility logs shall be yarded concurrently with the yarding of other logs and shall be removed from the sale area.

H-180 Removal of Specialized Forest Products or Firewood

Prior to the removal of conveyed specialized forest products or firewood from the sale area, Purchaser and the State shall agree in writing to the method of accounting for/and removal of such products.

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 unmarked dead stems within 100 feet of the C3000 road, 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 11/22/2021 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on C3000, C3100, C3001, C3002, C3003, C3004, C3101, and USFS 7200 roads. All work shall be completed to the specifications detailed in the Road Plan.

C-100 Landing Location Restricted

Landing locations are restricted to those shown on the timber sale map unless otherwise authorized in writing by the Contract Administrator.

C-130 Dust Abatement

Purchaser shall abate dust on the C3000 and USFS 7200 roads.

C-140 Water Bars

Purchaser shall, as directed by the Contract Administrator, construct water bars across haul roads, skid trails and fire trails as necessary to control soil erosion and water pollution.

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-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-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 (ECY). 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 at 1-800-258-5990
- National Response Center at 1-800-424-8802
- Appropriate Department of Ecology (ECY) at 1-800-645-7911
- DNR Contract Administrator

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.

S-131.1 Refuse Disposal

As required by RCW 70.93, All Contractor 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-010 Liquidated Damages

The clauses in the DAMAGES section of this contract provide for payments by Purchaser to the State for certain breaches of the terms of this contract. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State 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.

D-021 Failure to Remove Forest Products

Purchaser's failure to remove all or part of the forest products sold in this agreement prior to the expiration of the contract term results in substantial injury to the State. The value of the forest products sold at the time of breach is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans, the actual cost of which is difficult to assess. A resale involves additional time and expense and is not an adequate remedy. Therefore, Purchaser agrees to pay the State as liquidated damages a sum calculated using the following formula:

$$LD = .35V - ID - P + C + A$$

Where:

LD = Liquidated Damage value.

V = The unremoved value at the date of breach of contract. The value is determined by subtracting the removal tonnage to date from the cruised tonnage multiplied by the contract bid rates.

ID = Initial Deposit paid at date of contract that has not been applied to timber payments.

P = Advance payments received but not yet applied to specific contract requirements.

C = Charges assessed for contract requirements completed prior to breach of contract but not paid for.

A = Administrative Fee = \$2,500.00.

The above formula reflects the Purchaser's forfeiture of the initial deposit in accordance with clause P-010 by deducting the initial deposit from the amount owed. In no event shall the liquidated damages be less than zero. Interest on the liquidated damage is

owed from the date of breach until final payment, calculated using the following formula: $\text{Interest} = r \times \text{LD} \times N$.

Where:

r = daily equivalent of an annual interest at current interest rate as established by WAC 332-100-030.

LD = Liquidated damage value.

N = Number of days from date of breach to date payment is received.

D-030 Inadequate Log Accountability

Removal of forest products from the sale area without adequate branding and/or valid load tickets attached to the load and scaling forest products in a location other than the facility approved by the State can result in substantial injury to the State. Failure to properly account for loads and scaling and/or weighing information can result in loss to the State. The potential loss from not having proper branding, ticketing, scaling and/or weighing location and accountability is not readily ascertainable. Purchaser's failure to perform results in a loss of log weight and scale accountability, increases the potential for unauthorized removal of forest products, and increases the State's administration costs, the actual costs of which are difficult to assess.

Enforcement actions for unauthorized removal of forest products for each improperly branded load, improperly ticketed load, lost or unaccounted for tickets, or use of a facility not authorized for this sale or improper submission of scaling data are impractical, expensive, time consuming and are not an adequate remedy. Therefore, Purchaser agrees to pay the State, as liquidated damages, a sum of \$100 each time a load of logs does not have branding as required in the contract, \$250 each time a load of logs does not have a load ticket as required by the contract, \$250 each time a load ticket has not been filled out as required by the plan of operations, \$250 each time a load is weighed or scaled at a location not approved as required under this contract, \$250 each time a log ticket summary report is not submitted properly, and if a third party Log and Load Reporting Service is required, \$250 each time scaling or weight data is not properly submitted to the Log and Load Reporting Service per clause L-071, and \$250 each unused ticket that is not returned to the State, for any reason.

D-040 Leave Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-012, Leave Tree Damage Definition, the trees damaged result in substantial injury to the State. The value of the damaged leave trees at the time of the breach is not readily ascertainable. Therefore, Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged trees 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

Print Name

Date: _____

Address: _____

Larry Leach

Southeast Region Manager (Acting)

Date: _____

DRAFT

DRAFT

DRAFT

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 _____

Schedule A
Harvest Prescription

General Harvest Instructions

For both units, the harvester will be required to satisfactorily cut no less than a one acre sample in an area with legacy trees that will then be certified by the contract administrator. The harvester may be directed by contract administrator to complete additional sample areas over the term of the contract.

Unit 1

Harvest Objective

Thinning across diameters up to species specific DBH limit removing approximately 40% of the existing basal area within this range. The residual stand should have a non-uniform structure both in age class and spacing, with the objective of creating a stand with clumps and openings. All Ponderosa Pine and Douglas fir larger than 20" DBH will be retained. All Larch, Lodgepole Pine, Aspen, Cedar, and Western Yew will be retained ("no-cut" species). Do not cut trees marked with blue paint.

Within 100 feet of road C3000, unmarked snags are to be cut and removed. Otherwise, leave all existing snags where operationally safe and feasible to do so. Any snags that must be felled for safety reasons must remain in the unit.

Leave Trees:

Some leave trees have been marked with blue paint. These trees are generally in "clumps" of 2-20 trees. Any unmarked trees within these clumps, or within 35 feet of marked trees will be cut unless they are a no-cut species or larger than the diameter limit. Prescriptive cutting will target areas of unmarked trees between the clumps, with an objective of thinning on an approximately 35 foot spacing and leaving approximately 35 leave trees per acre in addition to the marked trees. In these areas, contractor shall select individual leave trees and cut all unmarked trees within 35 ft. Individual leave trees shall be selected in the following order:

- 1) Ponderosa pine and Douglas-fir larger than 20 inches diameter and any Western larch
- 2) Largest diameter Ponderosa Pine with at least 40% crown ratio
- 3) Largest diameter Douglas fir with at least 40% crown ratio
- 4) Largest diameter Grand Fir with at least 40% crown ratio fir may be selected only if there are no Ponderosa pine or Douglas-fir at least 6 inches diameter and with at least 40% crown ratio.

Trees with physical defect such as crooks, forks, cavities, or broken tops may be selected as long as they meet the above criteria.

Unit 2

Harvest Objective:

Thinning across diameters up to species specific DBH limit removing approximately 25% of the existing basal area within this range. The residual stand should have a non-uniform structure both in age class and spacing, with the objective of creating a stand with clumps and openings. All Ponderosa Pine and Douglas fir larger than 20" DBH will be retained. All Larch, Lodgepole Pine, Aspen, Cedar, and Western Yew will be retained. Do not cut trees marked with blue paint.

Within 100 feet of road C3000, unmarked snags are to be cut and removed. Otherwise, leave all existing snags where operationally safe and feasible to do so. Any snags that must be felled for safety reasons must remain in the unit.

Leave Trees:

Some leave trees have been marked with blue paint. These trees are generally in "clumps" of 2-20 trees. Any unmarked trees within these clumps, or within 23 feet of marked trees will be cut unless they are a no-cut species or larger than the diameter limit. Prescriptive cutting will target areas of unmarked trees between the clumps, with an objective of thinning on an approximately 23 foot spacing and leaving approximately 95 leave trees per acre in addition to the marked trees. In these areas, contractor shall select individual leave trees and cut all unmarked trees within 23 ft. Individual leave trees shall be selected in the following order:

- 1) Ponderosa pine and Douglas-fir larger than 20 inches diameter and any Western larch
- 2) Largest diameter Ponderosa Pine with at least 40% crown ratio
- 3) Largest diameter Douglas fir with at least 40% crown ratio
- 4) Largest diameter Grand Fir with at least 40% crown ratio fir may be selected only if there are no Ponderosa pine or Douglas-fir at least 6 inches diameter and with at least 40% crown ratio.

Trees with physical defect such as crooks, forks, cavities, or broken tops may be selected as long as they meet the above criteria.



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

linear feet

Temporary Reconstruction:

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)

Cruise Narrative

Sale Name:	CAMAS MEADOWS	Region:	SOUTH EAST
LEGAL DESCRIPTION:	Portions of Sec. 27 Twp. 23N Rng. 18E W.M. Chelan County	County:	Chelan
Lead cruiser:	Brendan Cockrum, NRS2 509-859-1339	Completion date:	11/20/2019

Unit acreage specifications:

Unit #	Gross acres	Net acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1	45.27	43.19	Yes	
2	59.40	59.37	Yes	
Total	104.67	102.56		

Unit cruise specifications:

Unit #	Sample type (VP, FP, ITS,100%)	Expansion factor (BAF, full/half)	Sighting height (4.5 ft, 16 ft.)	Grid size (Plot spacing or % of area)	Plot ratio (cruise:count)	Total number of plots
1	VP	27.71 BAF	4.5	300' x 300'	Cruised all	22
2	VP	40 BAF	4.5	300' x 300'	Cruised all	29

Sale/Cruise Description:

Minor species cruise intensity:	Unit 1 - Cruised all, Unit 2 – Cruised all.					
Minimum cruise spec:	All commercially viable species with a 6 in. or larger DBH and 4.5" min. DIB top at 12 ft.					
Avg ring count by sp:	DF =		WH =		SS =	
Leave/take tree description:	Leave trees specs – leave all trees marked with blue paint, all ponderosa pine 20" dbh and greater will be left, all Douglas fir 24" dbh and greater will be left. Leave tree preference is largest available ponderosa pine with at least 30% crown first, then largest available Douglas fir second, and Grand fir greater than 10" dbh if no other species are available. All western larch will be left. Leave trees in cruise identified in the status column as leave (L).					
Other conditions	Leave TPA; Unit 1 – 41 tpa, Unit 2 – 60 tpa					

Field observations:

This stand is located about 6 miles SW of Wenatchee, WA. The stand in Unit 1 is primarily ponderosa pine with a minor component of Douglas fir. Unit 2 is mostly Douglas fir with small components of Grand fir, and western larch. There are a few scattered lodgepole pine and Pacific yew in Unit 2 that were not captured in the cruise. These species will be left. There is Severe western pine beetle mortality of the ponderosa pine in Unit 1. Many of the painted stems have died from the beetle infestation. There is areas of light to severe insect and pathogen infection and damage across Unit 2. Slopes across the unit range from 0-60% with the majority of the area less than 20%.	
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Prepared by: Brendan Cockrum

Title: Forest Health Forester, Southeast Region

TC PSTATS					PROJECT STATISTICS				PAGE	1		
					PROJECT	CAMMDW			DATE	1/23/2020		
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
23N	18E	27	CAMMDW	0001	102.56	51	230	S	EW			
23N	18E	27	CAMMDW	0002								
					TREES	ESTIMATED	PERCENT					
					TOTAL	SAMPLE						
			PLOTS	TREES	PER PLOT	TREES	TREES					
TOTAL			51	230	4.5							
CRUISE			49	230	4.7	20,164	1.1					
DBH COUNT												
REFOREST												
COUNT												
BLANKS			2									
100 %												
STAND SUMMARY												
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
PONDEROS			24	22.7	10.2	58	4.1	13.0	1,131	1,115	255	255
PONDEROS-D			31	23.6	12.3	66	5.5	19.4	1,982	1,964	456	456
PONDEROS-L			60	28.8	15.4	70	9.5	37.2	4,777	4,689	1,032	1,032
DOUG FIR			64	90.5	10.0	66	15.6	49.2	4,181	4,120	1,177	1,176
DOUG FIR-L			42	21.7	16.4	82	7.8	31.7	3,422	3,283	1,048	1,048
GRAND F			5	7.1	10.2	49	1.3	4.0	327	322	98	98
GRAND F-L			3	1.8	15.8	88	0.6	2.4	344	321	91	91
W LARCH-L			1	.4	20.1	78	0.2	.8	83	69	27	27
TOTAL			230	196.6	12.1	67	45.3	157.6	16,248	15,882	4,185	4,183
CONFIDENCE LIMITS OF THE SAMPLE												
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR												
CL	68.1	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
PONDEROS			78.3	16.3	69	82	95					
PONDEROS-D			80.0	14.4	130	152	173					
PONDEROS-L			77.1	9.9	254	282	310					
DOUG FIR			82.2	10.4	65	72	80					
DOUG FIR-L			55.7	8.6	175	191	208					
GRAND F			86.6	43.0	43	76	109					
GRAND F-L			55.3	38.2	138	223	309					
W LARCH-L												
TOTAL			96.3	6.4	153	164	174	370	93	41		
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
PONDEROS			195.7	27.4	16	23	29					
PONDEROS-D			226.9	31.7	16	24	31					
PONDEROS-L			155.0	21.7	23	29	35					
DOUG FIR			164.0	22.9	70	91	111					
DOUG FIR-L			155.4	21.7	17	22	26					
GRAND F			565.5	79.1	1	7	13					
GRAND F-L			597.5	83.6	0	2	3					
W LARCH-L			714.1	99.9	0	0	1					
TOTAL			98.8	13.8	169	197	224	390	97	43		
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
PONDEROS			165.2	23.1	10	13	16					
PONDEROS-D			180.7	25.3	14	19	24					
PONDEROS-L			114.7	16.1	31	37	43					
DOUG FIR			147.6	20.6	39	49	59					
DOUG FIR-L			146.7	20.5	25	32	38					
GRAND F			467.6	65.4	1	4	7					
GRAND F-L			528.0	73.9	1	2	4					

TC PSTATS		PROJECT STATISTICS							PAGE	2
		PROJECT		CAMMDW			DATE		1/23/2020	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
23N	18E	27	CAMMDW	0001	102.56		51	230	S	EW
23N	18E	27	CAMMDW	0002						
CL	68.1		COEFF	BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
W LARCH-L			714.1	99.9	0	1	2			
TOTAL			70.7	9.9	142	158	173	200	50	22
CL	68.1		COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
PONDEROS			176.6	24.7	839	1,115	1,390			
PONDEROS-D			188.5	26.4	1,446	1,964	2,482			
PONDEROS-L			124.8	17.5	3,871	4,689	5,508			
DOUG FIR			162.4	22.7	3,184	4,120	5,056			
DOUG FIR-L			155.1	21.7	2,570	3,283	3,995			
GRAND F			424.9	59.4	130	322	513			
GRAND F-L			521.2	72.9	87	321	555			
W LARCH-L			714.1	99.9	0	69	138			
TOTAL			74.1	10.4	14,236	15,882	17,528	219	55	24
CL	68.1		COEFF	V_BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
PONDEROS			178.3	24.9	65	86	107			
PONDEROS-D			190.7	26.7	75	101	128			
PONDEROS-L			121.5	17.0	104	126	148			
DOUG FIR			158.6	22.2	65	84	103			
DOUG FIR-L			149.5	20.9	81	104	126			
GRAND F			424.9	59.4	33	81	128			
GRAND F-L			521.2	72.9	36	134	232			
W LARCH-L			714.1	99.9	0	86	172			
TOTAL			68.2	9.5	90	101	111	185	46	21

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	CAMMDW			DATE	1/23/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
23N	18E	27	CAMMDW	0001	43.19	22	97	S	EW	
				TREES	ESTIMATED TOTAL	PERCENT SAMPLE				
PLOTS		TREES	PER PLOT	TREES	TREES					
TOTAL		22	97	4.4						
CRUISE		22	97	4.4	5,572	1.7				
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
100 %										
STAND SUMMARY										
SAMPLE TREES		TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
PONDEROS		23	48.2	10.5	61	8.9	29.0	2,572	2,533	587
PONDEROS-D		20	21.9	14.5	66	6.6	25.2	2,652	2,625	624
PONDEROS-L		40	34.0	16.5	72	12.4	50.4	6,282	6,211	1,372
DOUG FIR		7	18.9	9.2	55	2.9	8.8	663	663	192
DOUG FIR-L		7	6.0	16.4	74	2.2	8.8	837	816	278
TOTAL		97	129.0	13.2	65	33.7	122.2	13,007	12,847	3,053
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
PONDEROS		75.8	16.2	71	85	98				
PONDEROS-D		77.2	17.7	142	172	202				
PONDEROS-L		80.1	12.7	251	287	323				
DOUG FIR		91.2	37.1	33	53	72				
DOUG FIR-L		50.0	20.3	154	193	232				
TOTAL		97.1	9.9	173	192	211	377	94	42	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
PONDEROS		114.8	25.0	36	48	60				
PONDEROS-D		156.4	34.1	14	22	29				
PONDEROS-L		105.8	23.1	26	34	42				
DOUG FIR		235.2	51.3	9	19	29				
DOUG FIR-L		219.2	47.8	3	6	9				
TOTAL		75.1	16.4	108	129	150	236	59	26	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
PONDEROS		85.9	18.7	24	29	34				
PONDEROS-D		151.5	33.0	17	25	34				
PONDEROS-L		75.2	16.4	42	50	59				
DOUG FIR		245.1	53.4	4	9	14				
DOUG FIR-L		203.1	44.3	5	9	13				
TOTAL		58.4	12.7	107	122	138	143	36	16	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
PONDEROS		95.3	20.8	2,007	2,533	3,059				
PONDEROS-D		156.1	34.0	1,732	2,625	3,517				
PONDEROS-L		81.7	17.8	5,105	6,211	7,317				
DOUG FIR		268.4	58.5	275	663	1,052				
DOUG FIR-L		203.3	44.3	454	816	1,177				
TOTAL		59.6	13.0	11,178	12,847	14,517	149	37	17	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	CAMMDW			DATE	1/23/2020
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
23N	18E	27	CAMMDW	0001	43.19	22	97	S	EW
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
PONDEROS		95.3	20.8	69	87	106			
PONDEROS-D		156.1	34.0	69	104	140			
PONDEROS-L		81.7	17.8	101	123	145			
DOUG FIR		268.4	58.5	31	75	119			
DOUG FIR-L		203.3	44.3	52	93	134			
TOTAL		59.6	13.0	91	105	119	149	37	17

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	CAMMDW			DATE	1/23/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
23N	18E	27	CAMMDW	0002	59.37	29	133	S	EW		
				TREES	ESTIMATED	PERCENT					
				TOTAL	SAMPLE						
				PER PLOT	TREES	TREES					
PLOTS		TREES		PER PLOT		TREES		TREES			
TOTAL		29		133		4.6					
CRUISE		27		133		4.9		14,592		.9	
DBH COUNT											
REFOREST											
COUNT											
BLANKS		2									
100 %											
STAND SUMMARY											
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR		57	142.6	10.1	67	24.8	78.6	6,740	6,635	1,893	1,892
DOUG FIR-L		35	33.1	16.3	83	11.9	48.3	5,303	5,077	1,609	1,609
PONDEROS		1	4.2	7.8	29	0.5	1.4	83	83	14	14
PONDEROS-D		11	24.9	10.6	66	4.7	15.2	1,494	1,483	334	334
PONDEROS-L		20	25.0	14.2	68	7.3	27.6	3,682	3,583	784	784
GRAND F		5	12.2	10.2	49	2.2	6.9	565	556	169	169
GRAND F-L		3	3.1	15.8	88	1.0	4.1	595	554	157	157
W LARCH-L		1	.6	20.1	78	0.3	1.4	144	119	47	47
TOTAL		133	245.8	11.7	68	53.6	183.4	18,606	18,090	5,008	5,007
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		81.0	10.9	67	75	83					
DOUG FIR-L		57.5	9.7	172	191	209					
PONDEROS											
PONDEROS-D		79.3	25.0	86	115	143					
PONDEROS-L		71.6	16.4	227	271	315					
GRAND F		86.6	43.0	43	76	109					
GRAND F-L		55.3	38.2	138	223	309					
W LARCH-L											
TOTAL		90.6	7.9	132	143	154	328	82	36		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		120.8	22.8	110	143	175					
DOUG FIR-L		117.1	22.1	26	33	40					
PONDEROS		538.5	101.7		4	8					
PONDEROS-D		258.3	48.8	13	25	37					
PONDEROS-L		200.6	37.9	16	25	35					
GRAND F		424.5	80.2	2	12	22					
GRAND F-L		449.1	84.8	0	3	6					
W LARCH-L		538.5	101.7		1	1					
TOTAL		92.7	17.5	203	246	289	355	89	39		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		103.1	19.5	63	79	94					
DOUG FIR-L		109.3	20.6	38	48	58					
PONDEROS		538.5	101.7		1	3					
PONDEROS-D		216.2	40.8	9	15	21					
PONDEROS-L		160.3	30.3	19	28	36					
GRAND F		349.0	65.9	2	7	11					
GRAND F-L		395.6	74.7	1	4	7					
W LARCH-L		538.5	101.7		1	3					
TOTAL		68.8	13.0	160	183	207	196	49	22		

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	CAMMDW			DATE	1/23/2020
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
23N	18E	27	CAMMDW	0002	59.37	29	133	S	EW
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR		115.7	21.8	5,186	6,635	8,084			
DOUG FIR-L		115.7	21.8	3,968	5,077	6,187			
PONDEROS		538.5	101.7		83	168			
PONDEROS-D		229.4	43.3	840	1,483	2,125			
PONDEROS-L		173.8	32.8	2,407	3,583	4,758			
GRAND F		315.8	59.6	224	556	887			
GRAND F-L		390.4	73.7	146	554	963			
W LARCH-L		538.5	101.7		119	240			
TOTAL		74.8	14.1	15,535	18,090	20,645	231	58	26
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR		115.7	21.8	66	84	103			
DOUG FIR-L		115.7	21.8	82	105	128			
PONDEROS		538.5	101.7		60	122			
PONDEROS-D		229.4	43.3	55	98	140			
PONDEROS-L		173.8	32.8	87	130	172			
GRAND F		315.8	59.6	33	81	129			
GRAND F-L		390.4	73.7	35	134	233			
W LARCH-L		538.5	101.7		86	174			
TOTAL		74.8	14.1	85	99	113	231	58	26

TC		PSTNDSUM		Stand Table Summary										Page Date:		1 1/23/2020		
<div>T23N R18E S27 Ty000143.19</div> <div>T23N R18E S27 Ty000259.37</div>					Project					CAMMDW			Time:				2:44:39PM	
					Acres					102.56			Grown Year:					
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals					
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF		
PP L		6	1	80	29	3.688	.80	3.69	1.3	10.0	.12	5	37	12	5	4		
PP L		9	1	81	77	2.026	.80	4.05	3.3	15.0	.32	13	61	33	14	6		
PP L		10	3	81	68	2.864	1.59	5.73	5.7	26.6	.79	33	153	81	34	16		
PP L		11	1	71	65	1.167	.80	2.33	7.4	25.0	.41	17	58	42	18	6		
PP L		12	3	75	71	2.037	1.59	4.07	9.0	34.9	.88	37	142	91	38	15		
PP L		14	8	79	76	4.853	5.05	10.51	11.9	47.5	3.01	125	499	308	128	51		
PP L		15	3	82	85	1.321	1.59	3.54	12.7	57.3	1.08	45	203	110	46	21		
PP L		17	7	83	86	3.270	5.05	8.63	16.4	74.3	3.40	142	641	349	145	66		
PP L		18	2	79	81	.621	1.06	1.24	22.7	87.4	.68	28	109	69	29	11		
PP L		19	1	83	78	.264	.53	.53	27.3	120.0	.35	14	63	35	15	6		
PP L		20	7	81	97	2.065	4.52	5.24	26.8	123.5	3.37	140	647	346	144	66		
PP L		21	7	84	99	1.891	4.52	5.24	27.8	132.8	3.50	146	696	359	149	71		
PP L		22	2	85	83	.421	1.06	.84	35.2	172.5	.71	30	145	73	30	15		
PP L		23	5	82	97	.990	2.92	2.44	37.9	188.1	2.21	92	458	227	95	47		
PP L		24	2	79	82	.345	1.06	.69	42.4	181.8	.70	29	125	72	30	13		
PP L		25	1	88	90	.159	.53	.32	51.8	280.0	.40	17	89	41	17	9		
PP L		26	1	84	101	.146	.53	.44	39.9	206.7	.42	18	91	43	18	9		
PP L		27	1	74	116	.208	.80	.63	43.3	190.0	.65	27	119	67	28	12		
PP L		28	2	87	96	.246	1.06	.61	56.0	297.7	.82	34	183	85	35	19		
PP L		31	1	68	101	.151	.80	.45	52.1	180.0	.57	24	82	58	24	8		
PP L		35	1	86	88	.080	.53	.16	100.0	565.0	.38	16	90	39	16	9		
PP L		Totals	60	80	75	28.815	37.19	61.37	16.8	76.4	24.77	1,032	4,689	2,540	1,058	481		
DF		6	2	79	70	7.382	1.60	7.38	1.5	10.0	.31	11	74	32	11	8		
DF		7	7	79	47	20.011	5.32	28.75	2.0	10.0	1.63	57	287	167	59	29		
DF		8	5	79	55	11.188	3.72	13.31	4.4	20.2	1.68	59	269	173	61	28		
DF		9	5	78	53	8.757	3.72	14.35	4.5	18.3	1.88	65	262	193	67	27		
DF		10	9	79	66	12.872	6.92	22.66	6.8	21.4	4.41	155	486	453	159	50		
DF		11	7	81	70	8.079	5.32	12.72	8.3	30.1	3.00	105	382	308	108	39		
DF		12	10	79	87	9.881	7.72	20.73	11.3	38.7	6.69	235	802	686	241	82		
DF		13	4	81	86	3.520	3.19	7.04	13.9	47.6	2.80	98	335	287	101	34		
DF		14	5	79	94	3.728	3.99	8.91	14.5	46.6	3.68	129	415	377	132	43		
DF		15	1	80	85	.668	.80	1.34	18.3	50.0	.70	24	67	72	25	7		
DF		16	6	79	99	3.260	4.52	7.69	20.3	65.2	4.45	156	501	457	160	51		
DF		17	1	79	67	.519	.80	1.04	20.7	50.0	.61	21	52	63	22	5		
DF		20	1	79	104	.355	.80	.71	41.7	130.0	.84	30	92	87	30	9		
DF		22	1	79	107	.308	.80	.92	31.7	103.3	.83	29	95	86	30	10		
DF		Totals	64	79	66	90.529	49.22	147.54	8.0	27.9	33.53	1,176	4,120	3,439	1,206	423		
DFL		10	1	75	66	.973	.53	.97	13.0	40.0	.36	13	39	37	13	4		
DFL		12	3	80	70	2.919	2.40	5.84	10.3	30.1	1.70	60	176	175	62	18		
DFL		13	5	77	81	4.298	3.99	9.42	12.4	38.2	3.34	117	360	343	120	37		
DFL		14	1	79	72	.736	.80	1.47	14.8	40.0	.62	22	59	63	22	6		
DFL		15	4	81	83	2.431	2.93	4.17	21.2	58.5	2.53	88	244	260	91	25		
DFL		16	2	78	93	1.116	1.60	2.23	23.7	67.4	1.51	53	150	155	54	15		
DFL		17	2	79	98	.810	1.33	2.11	22.5	71.5	1.35	47	151	139	49	15		
DFL		18	7	82	105	3.243	5.59	8.37	24.7	81.3	5.88	207	680	603	212	70		
DFL		19	3	78	108	1.217	2.40	3.65	24.4	78.7	2.53	89	287	260	91	29		
DFL		20	4	78	91	1.365	2.93	2.73	36.7	107.6	2.86	100	294	293	103	30		
DFL		21	3	79	94	.914	2.13	1.83	40.4	127.7	2.11	74	233	216	76	24		
DFL		22	2	84	99	.584	1.60	1.17	49.8	185.0	1.66	58	216	170	60	22		
DFL		23	3	86	92	.732	2.13	1.74	42.4	160.4	2.11	74	280	216	76	29		
DFL		25	1	76	91	.159	.53	.32	58.3	165.0	.53	19	53	54	19	5		
DFL		26	1	68	102	.210	.80	.42	66.1	145.0	.79	28	61	81	28	6		

TC		PSTNDSUM		Stand Table Summary										Page Date:		2 1/23/2020	
<div>T23N R18E S27 Ty000143.19 T23N R18E S27 Ty000259.37</div>					ProjectCAMMDW					Time:2:44:39PM							
					Acres102.56					Grown Year:							
S Sp	T	Sample		Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
		DBH	Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF L	Totals	42	79	87	21.707	31.66	46.44	22.6	70.7	29.88	1,048	3,283	3,065	1,075	337		
PP D	7	2	80	58	6.034	1.60	6.03	2.5	14.4	.37	15	87	38	16	9		
PP D	9	1	76	62	1.979	.80	1.98	5.1	20.0	.24	10	40	25	10	4		
PP D	10	4	79	60	4.877	2.66	7.75	6.7	27.5	1.24	52	213	127	53	22		
PP D	12	4	78	71	3.053	2.39	5.43	10.6	44.5	1.38	57	242	141	59	25		
PP D	13	1	80	68	.594	.53	1.19	9.7	40.0	.28	12	47	28	12	5		
PP D	14	2	80	71	1.016	1.06	1.50	16.1	63.9	.58	24	96	59	25	10		
PP D	15	3	82	81	1.538	1.86	3.75	13.2	56.9	1.18	49	213	122	51	22		
PP D	16	2	75	81	.771	1.06	1.91	15.0	59.8	.69	29	114	70	29	12		
PP D	17	4	81	85	1.717	2.66	4.14	17.0	76.5	1.69	71	317	174	72	32		
PP D	19	2	81	88	.698	1.33	1.40	26.5	117.0	.89	37	163	91	38	17		
PP D	21	3	78	82	.801	1.86	1.60	31.8	132.9	1.22	51	213	125	52	22		
PP D	22	2	74	93	.400	1.06	1.01	31.0	123.0	.75	31	124	77	32	13		
PP D	24	1	83	105	.166	.53	.50	36.4	190.0	.43	18	95	45	19	10		
PP D	Totals	31	79	68	23.644	19.39	38.18	11.9	51.4	10.94	456	1,964	1,122	467	201		
PP	7	2	81	48	4.146	1.06	4.15	2.3	10.0	.23	10	41	24	10	4		
PP	8	4	79	45	6.975	2.39	8.46	3.1	14.8	.64	26	125	65	27	13		
PP	9	1	73	61	1.228	.53	1.23	5.1	20.0	.15	6	25	15	6	3		
PP	10	3	81	67	3.090	1.59	6.18	5.0	23.3	.74	31	144	76	32	15		
PP	11	1	80	62	.819	.53	1.64	5.9	25.0	.23	10	41	24	10	4		
PP	12	4	81	68	2.738	2.12	4.78	10.0	45.5	1.15	48	217	118	49	22		
PP	13	1	80	74	.613	.53	1.23	9.8	40.0	.29	12	49	30	12	5		
PP	14	2	82	74	1.001	1.06	2.00	12.9	59.7	.62	26	120	63	26	12		
PP	15	1	80	88	.432	.53	.86	17.8	75.0	.37	15	65	38	16	7		
PP	16	1	81	65	.385	.53	.77	15.6	65.0	.29	12	50	30	12	5		
PP	17	2	80	86	.665	1.06	1.66	18.1	70.1	.72	30	116	74	31	12		
PP	18	2	82	80	.607	1.06	1.52	19.1	79.9	.70	29	122	72	30	12		
PP	Totals	24	80	58	22.699	13.00	34.47	7.4	32.3	6.13	255	1,115	629	262	114		
GF	7	1	81	30	3.075	.80	3.07	2.7	20.0	.23	8	61	24	8	6		
GF	9	1	82	34	1.848	.80	1.85	5.3	20.0	.28	10	37	29	10	4		
GF	12	1	75	86	1.017	.80	2.03	12.3	35.0	.72	25	71	74	26	7		
GF	16	2	76	92	1.146	1.60	2.84	19.3	53.6	1.57	55	152	161	56	16		
GF	Totals	5	80	49	7.086	3.99	9.79	10.0	32.9	2.81	98	322	288	101	33		
GFL	12	1	90	92	.984	.80	1.97	14.5	60.0	.82	29	118	84	29	12		
GFL	18	1	89	103	.467	.80	.93	32.7	95.0	.88	31	89	90	31	9		
GFL	22	1	82	107	.317	.80	.95	33.7	120.0	.92	32	114	94	33	12		
GFL	Totals	3	88	98	1.768	2.40	3.85	23.7	83.3	2.61	91	321	268	93	33		
WLL	20	1	75	96	.362	.80	.72	37.8	95.0	.66	27	69	67	28	7		
WLL	Totals	1	75	96	.362	.80	.72	37.8	95.0	.66	27	69	67	28	7		
Totals		230	80	69	196.609	157.65	342.38	12.2	46.4	111.33	4,183	15,882	11,418	4,290	1,629		

TC		TSTNDSUM		Stand Table Summary													
Project										CAMMDW							
T23N R18E S27 T0001										T23N R18E S27 T0001							
Twp	Rge	Sec	Tract	Type				Acres		Plots	Sample Trees			Page: 1			
23N	18E	27	CAMMDW	0001				43.19		22	97			Date: 1/23/2020			
														Time: 2:44:40PM			
Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
PP	L	10	3	81	68	6.801	3.78	13.60	5.7	26.6	1.88	78	362	81	34	16	
PP	L	12	3	75	71	4.838	3.78	9.68	9.0	34.9	2.10	87	338	91	38	15	
PP	L	14	5	79	72	6.120	6.30	12.24	12.4	50.9	3.63	151	623	157	65	27	
PP	L	15	3	82	85	3.136	3.78	8.40	12.7	57.3	2.56	107	481	110	46	21	
PP	L	17	2	78	85	1.589	2.52	3.18	22.2	90.0	1.69	70	286	73	30	12	
PP	L	18	2	79	81	1.475	2.52	2.95	22.7	87.4	1.61	67	258	69	29	11	
PP	L	19	1	83	78	.626	1.26	1.25	27.3	120.0	.82	34	150	35	15	6	
PP	L	20	4	82	84	2.276	5.04	4.55	30.5	131.3	3.33	139	598	144	60	26	
PP	L	21	4	84	90	2.116	5.04	5.32	28.4	140.5	3.63	151	747	157	65	32	
PP	L	22	2	85	83	.999	2.52	2.00	35.2	172.5	1.69	70	345	73	30	15	
PP	L	23	4	80	91	1.717	5.04	3.88	38.0	167.5	3.54	147	650	153	64	28	
PP	L	24	2	79	82	.819	2.52	1.64	42.4	181.8	1.67	69	298	72	30	13	
PP	L	25	1	88	90	.379	1.26	.76	51.8	280.0	.94	39	212	41	17	9	
PP	L	26	1	84	101	.347	1.26	1.04	39.9	206.7	1.00	42	215	43	18	9	
PP	L	28	2	87	96	.585	2.52	1.46	56.0	297.7	1.96	82	434	85	35	19	
PP	L	35	1	86	88	.190	1.26	.38	100.0	565.0	.91	38	214	39	16	9	
PP		Totals	40	80	78	34.013	50.38	72.32	19.0	85.9	32.93	1,372	6,211	1,422	593	268	
PP	D	10	2	76	51	4.764	2.52	4.76	8.7	34.5	1.00	42	165	43	18	7	
PP	D	12	3	79	67	4.709	3.78	7.81	11.0	44.2	2.06	86	346	89	37	15	
PP	D	13	1	80	68	1.410	1.26	2.82	9.7	40.0	.66	27	113	28	12	5	
PP	D	14	2	80	71	2.412	2.52	3.56	16.1	63.9	1.38	57	227	59	25	10	
PP	D	15	2	82	72	2.042	2.52	4.08	15.4	65.0	1.51	63	266	65	27	11	
PP	D	16	2	75	81	1.830	2.52	4.53	15.0	59.8	1.63	68	271	70	29	12	
PP	D	17	2	81	73	1.598	2.52	2.40	23.6	96.7	1.36	57	232	59	24	10	
PP	D	19	1	80	92	.675	1.26	1.35	26.8	120.0	.87	36	162	38	16	7	
PP	D	21	2	82	83	1.083	2.52	2.17	32.7	150.1	1.70	71	325	73	31	14	
PP	D	22	2	74	93	.951	2.52	2.39	31.0	123.0	1.78	74	294	77	32	13	
PP	D	24	1	83	105	.394	1.26	1.18	36.4	190.0	1.03	43	225	45	19	10	
PP		Totals	20	79	69	21.869	25.19	37.06	16.8	70.8	14.97	624	2,625	647	269	113	
PP		7	2	81	48	9.845	2.52	9.84	2.3	10.0	.54	23	98	24	10	4	
PP		8	3	78	53	10.849	3.78	14.37	3.0	12.7	1.04	43	183	45	18	8	
PP		9	1	73	61	2.915	1.26	2.92	5.1	20.0	.36	15	58	15	6	3	
PP		10	3	81	67	7.337	3.78	14.67	5.0	23.3	1.77	74	341	76	32	15	
PP		11	1	80	62	1.944	1.26	3.89	5.9	25.0	.55	23	97	24	10	4	
PP		12	4	81	68	6.503	5.04	11.35	10.0	45.5	2.73	114	516	118	49	22	
PP		13	1	80	74	1.455	1.26	2.91	9.8	40.0	.69	29	116	30	12	5	
PP		14	2	82	74	2.378	2.52	4.76	12.9	59.7	1.47	61	284	63	26	12	
PP		15	1	80	88	1.026	1.26	2.05	17.8	75.0	.88	37	154	38	16	7	
PP		16	1	81	65	.913	1.26	1.83	15.6	65.0	.68	28	119	30	12	5	
PP		17	2	80	86	1.580	2.52	3.94	18.1	70.1	1.71	71	276	74	31	12	
PP		18	2	82	80	1.442	2.52	3.62	19.1	79.9	1.66	69	289	72	30	12	
PP		Totals	23	80	62	48.187	28.97	76.14	7.7	33.3	14.08	586	2,533	608	253	109	
DF	L	10	1	75	66	2.309	1.26	2.31	13.0	40.0	.85	30	92	37	13	4	
DF	L	15	1	79	83	.987	1.26	1.97	18.4	55.0	1.04	36	109	45	16	5	
DF	L	17	1	80	90	.763	1.26	1.53	28.2	90.0	1.23	43	137	53	19	6	
DF	L	20	1	80	91	.589	1.26	1.18	37.3	105.0	1.26	44	124	54	19	5	
DF	L	21	1	75	87	.524	1.26	1.05	39.0	105.0	1.16	41	110	50	18	5	
DF	L	23	1	80	82	.440	1.26	.88	45.3	135.0	1.14	40	119	49	17	5	
DF	L	25	1	76	91	.379	1.26	.76	58.3	165.0	1.26	44	125	54	19	5	

TC		TSTNDSUM														Stand Table Summary									
Project										CAMMDW															
T23N R18E S27 T0001															T23N R18E S27 T0001										
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page: 2							
23N		18E		27		CAMMDW		0001			43.19		22		97			Date: 1/23/2020							
																		Time: 2:44:40PM							
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s											
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF									
DF		Totals	7	77	79	5.990	8.82	9.67	28.8	84.3	7.94	278	816	343	120	35									
DF		7	1	80	42	5.302	1.26	5.30	2.2	10.0	.33	11	53	14	5	2									
DF		8	1	79	45	3.608	1.26	3.61	5.3	20.0	.55	19	72	24	8	3									
DF		9	1	81	49	3.122	1.26	3.12	6.0	30.0	.56	19	94	24	8	4									
DF		10	1	80	71	2.405	1.26	4.81	6.8	20.0	.93	33	96	40	14	4									
DF		11	1	79	62	1.909	1.26	3.82	8.0	20.0	.87	30	76	37	13	3									
DF		12	1	80	85	1.687	1.26	3.37	11.1	40.0	1.07	38	135	46	16	6									
DF		16	1	79	86	.913	1.26	1.83	22.1	75.0	1.15	40	137	50	17	6									
DF		Totals	7	80	55	18.946	8.82	25.86	7.4	25.7	5.46	191	663	236	82	29									
Totals			97	80	67	129.005	122.18	221.05	13.8	58.1	75.39	3051	12,847	3,256	1,318	555									

TC		Stand Table Summary															
Project CAMMDW																	
T23N R18E S27 T0002													T23N R18E S27 T0002				
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page: 1			
23N	18E	27	CAMMDW		0002			59.37		29	133			Date: 1/23/2020			
													Time: 2:44:40PM				
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF		6	2	79	70	12.753	2.76	12.75	1.5	10.0	.54	19	128	32	11	8	
DF		7	6	79	47	30.711	8.28	45.80	2.0	10.0	2.57	90	457	153	54	27	
DF		8	4	79	57	16.702	5.52	20.37	4.3	20.2	2.51	88	412	149	52	24	
DF		9	4	77	54	12.856	5.52	22.52	4.4	17.1	2.84	98	385	169	58	23	
DF		10	8	79	65	20.487	11.03	35.64	6.8	21.6	6.94	244	769	412	145	46	
DF		11	6	81	71	12.568	8.28	19.19	8.3	31.5	4.56	160	605	270	95	36	
DF		12	9	79	87	15.841	12.41	33.35	11.3	38.6	10.77	378	1,288	640	225	76	
DF		13	4	81	86	6.082	5.52	12.16	13.9	47.6	4.84	170	579	287	101	34	
DF		14	5	79	94	6.440	6.90	15.39	14.5	46.6	6.35	223	718	377	132	43	
DF		15	1	80	85	1.155	1.38	2.31	18.3	50.0	1.21	42	115	72	25	7	
DF		16	5	79	101	4.967	6.90	11.95	20.1	64.1	6.86	241	766	407	143	45	
DF		17	1	79	67	.896	1.38	1.79	20.7	50.0	1.06	37	90	63	22	5	
DF		20	1	79	104	.614	1.38	1.23	41.7	130.0	1.46	51	160	87	30	9	
DF		22	1	79	107	.532	1.38	1.60	31.7	103.3	1.44	51	165	86	30	10	
DF		Totals		57	79	67	142.604	78.62	236.07	8.0	28.1	53.95	1,892	6,635	3,203	1,123	394
DF	L	12	3	80	70	5.043	4.14	10.09	10.3	30.1	2.94	104	304	175	62	18	
DF	L	13	5	77	81	7.425	6.90	16.28	12.4	38.2	5.77	202	622	343	120	37	
DF	L	14	1	79	72	1.272	1.38	2.54	14.8	40.0	1.06	38	102	63	22	6	
DF	L	15	3	82	83	3.482	4.14	5.76	21.9	59.3	3.62	126	342	215	75	20	
DF	L	16	2	78	93	1.927	2.76	3.85	23.7	67.4	2.61	91	260	155	54	15	
DF	L	17	1	79	104	.845	1.38	2.53	20.0	63.3	1.44	51	161	86	30	10	
DF	L	18	7	82	105	5.601	9.66	14.45	24.7	81.3	10.16	357	1,176	603	212	70	
DF	L	19	3	78	108	2.102	4.14	6.31	24.4	78.7	4.38	154	496	260	91	29	
DF	L	20	3	78	91	1.930	4.14	3.86	36.6	108.2	4.02	141	418	239	84	25	
DF	L	21	2	80	96	1.198	2.76	2.40	40.9	134.9	2.79	98	323	166	58	19	
DF	L	22	2	84	99	1.008	2.76	2.02	49.8	185.0	2.86	100	373	170	60	22	
DF	L	23	2	88	96	.944	2.76	2.37	41.6	167.3	2.81	99	397	167	59	24	
DF	L	26	1	68	102	.363	1.38	.73	66.1	145.0	1.37	48	105	81	28	6	
DF		Totals		35	80	88	33.141	48.28	73.19	22.0	69.4	45.85	1,609	5,077	2,722	955	301
PP	L	6	1	80	29	6.372	1.38	6.37	1.3	10.0	.20	8	64	12	5	4	
PP	L	9	1	81	77	3.500	1.38	7.00	3.3	15.0	.55	23	105	33	14	6	
PP	L	11	1	71	65	2.016	1.38	4.03	7.4	25.0	.71	30	101	42	18	6	
PP	L	14	3	79	80	3.932	4.14	9.25	11.5	44.1	2.55	106	408	152	63	24	
PP	L	17	5	84	87	4.492	6.90	12.59	15.4	71.4	4.65	194	899	276	115	53	
PP	L	20	3	81	108	1.911	4.14	5.73	24.7	119.0	3.40	142	682	202	84	41	
PP	L	21	3	84	107	1.727	4.14	5.18	27.4	127.1	3.40	142	658	202	84	39	
PP	L	23	1	89	113	.462	1.38	1.39	37.7	230.0	1.25	52	319	74	31	19	
PP	L	27	1	74	116	.360	1.38	1.08	43.3	190.0	1.12	47	205	67	28	12	
PP	L	31	1	68	101	.261	1.38	.78	52.1	180.0	.98	41	141	58	24	8	
PP		Totals		20	80	72	25.033	27.59	53.41	14.7	67.1	18.83	784	3,583	1,118	466	213
PP	D	7	2	80	58	10.424	2.76	10.42	2.5	14.4	.63	26	150	38	16	9	
PP	D	9	1	76	62	3.419	1.38	3.42	5.1	20.0	.42	17	68	25	10	4	
PP	D	10	2	81	66	4.960	2.76	9.92	5.9	25.0	1.41	59	248	84	35	15	
PP	D	12	1	76	80	1.847	1.38	3.69	9.9	45.0	.88	37	166	52	22	10	
PP	D	15	1	81	93	1.170	1.38	3.51	11.2	50.0	.95	39	176	56	23	10	
PP	D	17	2	81	93	1.803	2.76	5.41	14.9	70.0	1.94	81	378	115	48	22	
PP	D	19	1	81	86	.716	1.38	1.43	26.3	115.0	.90	38	165	54	22	10	
PP	D	21	1	72	81	.596	1.38	1.19	30.5	110.0	.87	36	131	52	22	8	
PP		Totals		11	79	67	24.935	15.17	39.00	8.6	38.0	8.01	334	1,483	475	198	88

TC		TSTNDSUM														Stand Table Summary									
Project										CAMMDW															
T23N R18E S27 T0002															T23N R18E S27 T0002										
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page: 2									
23N		18E		27		CAMMDW		0002		59.37		29		133		Date: 1/23/2020									
															Time: 2:44:40PM										
S Spc	T	Sample		FF	Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals	Tons	Cunits	MBF							
		DBH	Trees	16'	Ht Tot	Cu.Ft.				Bd.Ft.	Cu.Ft.		Bd.Ft.	Cu.Ft.					Bd.Ft.						
GF		7	1	81	30		5.312	1.38	5.31	2.7	20.0	.41	14	106		24	8	6							
GF		9	1	82	34		3.193	1.38	3.19	5.3	20.0	.49	17	64		29	10	4							
GF		12	1	75	86		1.756	1.38	3.51	12.3	35.0	1.24	43	123		74	26	7							
GF		16	2	76	92		1.979	2.76	4.90	19.3	53.6	2.72	95	263		161	56	16							
GF		Totals		5	80	49	12.240	6.90	16.92	10.0	32.9	4.85	169	556		288	101	33							
GF	L	12	1	90	92		1.699	1.38	3.40	14.5	60.0	1.41	49	204		84	29	12							
GF	L	18	1	89	103		.807	1.38	1.61	32.7	95.0	1.52	53	153		90	31	9							
GF	L	22	1	82	107		.547	1.38	1.64	33.7	120.0	1.58	55	197		94	33	12							
GF		Totals		3	88	98	3.053	4.14	6.65	23.7	83.3	4.51	157	554		268	93	33							
WL	L	20	1	75	96		.626	1.38	1.25	37.8	95.0	1.14	47	119		67	28	7							
WL		Totals		1	75	96	.626	1.38	1.25	37.8	95.0	1.14	47	119		67	28	7							
PP		8	1	81	29		4.157	1.38	4.16	3.4	20.0	.34	14	83		20	8	5							
PP		Totals		1	81	29	4.157	1.38	4.16	3.4	20.0	0.34	14	83		20	8	5							
Totals		133		79	69		245.789	183.45	430.64	11.6	42.0	137.47	5007	18,090		8,162	2,973	1,074							

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
<div>T23N R18E S27 Ty000143.19</div> <div>T23N R18E S27 Ty000259.37</div>				Project:				CAMMDW				Page				1						
				Acres				102.56				Date				1/23/2020						
												Time				2:44:38PM						
S So Gr T rt ad Spp				%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs	
				Net BdFt					Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln Ft	Dia In
					4-5	6-11	12-16						17+	12-20	21-30	31-35	36-99					
PP	L	D	3S	1		56	56	6			100				100	32	16	370	3.67		.2	
PP	L	D	4S	38	3.1	1,841	1,783	183		3	73	24			100	32	14	276	1.75		6.5	
PP	L	D	5S	59	1.1	2,786	2,756	283		92	8		3	15	82	28	7	75	0.61		36.8	
PP	L	D	UT	2		94	94	10	96	4			100			5	5	5	0.20		18.0	
PP Totals				30	1.8	4,777	4,689	481	2	55	34	9	4	9	87	22	8	76	0.76		61.4	
PP	D	D	4S	10		199	199	20			100				100	32	13	240	1.69		.8	
PP	D	D	5S	83	1.1	1,654	1,635	168		97	3		6	5	89	29	7	71	0.59		23.2	
PP	D	D	UT	7		130	130	13	98	2			100			9	5	9	0.19		14.2	
PP Totals				12	.9	1,982	1,964	201	6	81	13		12	4	84	21	7	51	0.56		38.2	
PP		D	5S	87	1.6	995	978	100		95	5		12	16	72	25	7	52	0.48		18.9	
PP		D	UT	13		136	136	14	100				100			9	5	9	0.20		15.6	
PP Totals				7	1.4	1,131	1,115	114	12	83	5		23	14	63	18	6	32	0.41		34.5	
DF		D	2S	1		74	74	8			100				100	40	13	240	1.78		.3	
DF		D	3S	44	2.9	1,856	1,802	185		96	4				100	40	7	81	0.64		22.3	
DF		D	4S	48	.3	1,963	1,956	201	86	14			22	27	7	44	26	5	28	0.29	70.5	
DF		D	UT	7		288	288	30	100				60	40		6	5	5	0.19		54.5	
DF Totals				26	1.5	4,181	4,120	423	48	49	4		14	16	3	67	20	5	28	0.39		147.5
DF	L	D	2S	30	.5	1,003	998	102			100				100	40	13	245	1.65		4.1	
DF	L	D	3S	51	7.0	1,788	1,662	170		97	3			0	1	98	40	8	98	0.85	17.0	
DF	L	D	4S	17	1.4	574	566	58	80	20			6	17	8	68	32	5	36	0.39	15.8	
DF	L	D	UT	2		57	57	6	100				100			6	5	6	0.18		9.6	
DF Totals				21	4.1	3,422	3,283	337	16	53	32		3	3	2	92	30	7	71	0.75		46.4
GF		D	3S	23	6.7	82	76	8			100				100	40	10	140	1.05		.5	
GF		D	4S	29		93	93	10	34	66			11		89	30	5	36	0.43		2.6	
GF		D	UT	48		153	153	16	72	28			48	24	28	19	5	23	0.34		6.7	
GF Totals				2	1.7	327	322	33	44	56			26	11	62	23	6	33	0.44		9.8	
GF	L	D	2S	50	12.6	185	162	17			100				100	40	13	207	1.45		.8	
GF	L	D	3S	34		111	111	11			100				100	40	8	85	0.59		1.3	
GF	L	D	4S	16		48	48	5	100					61	39	31	5	33	0.33		1.5	
GF	L	D	UT													7			0.00		.3	
GF Totals				2	6.8	344	321	33	15	35	50			9	91	33	8	83	0.71		3.9	
WL	L	D	3S	73	22.2	65	51	5			100				100	40	11	140	1.53		.4	
WL	L	D	4S	27	.0	18	18	2	100						100	36	5	50	0.40		.4	
WL Totals				0	17.4	83	69	7	26	74					100	38	8	95	1.00		.7	
Totals					2.3	16,248	15,882	1,629	19	58	20	3	9	9	42	40	22	6	46	0.55		342.4

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page		1			
				Project: CAMMDW												Date		1/23/2020			
																Time		2:44:38PM			
T23N R18E S27 T0001														T23N R18E S27 T0001							
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt			
23N		18E		27		CAMMDW		0001		43.19		22		97		S		EW			
S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def%GrossNet			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
									Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf				
PP	L	DM	4S	42	2.0	2,701	2,647	114	2	69	29	100				32	14	290	1.84	9.1	
PP	L	DM	5S	56	.5	3,509	3,491	151	90	10		4	12	85	29	7	74	0.60	47.1		
PP	L	DM	UT	2		72	72	3	100			100			5	6	4	0.21	16.1		
PP L Totals				48	1.1	6,282	6,211	268	1	52	35	12	3	6	90	24	8	86	0.80	72.3	
PP	D	DM	4S	18		472	472	20	100				100				32	13	240	1.69	2.0
PP	D	DM	5S	80	1.3	2,130	2,102	91	95	5		7	4	90	28	7	72	0.61	29.2		
PP	D	DM	UT	2		50	50	2	90	10		100			10	5	9	0.21	5.9		
PP D Totals				20	1.0	2,652	2,625	113	2	76	22		7	3	90	26	7	71	0.66	37.1	
PP		DM	5S	91	1.6	2,362	2,323	100	95	5		12	16	72	25	7	52	0.48	44.8		
PP		DM	UT	9		210	210	9	100			100			8	5	7	0.19	31.4		
PP Totals				20	1.5	2,572	2,533	109	8	87	5	19	15	66	18	6	33	0.43	76.1		
DF	L	DM	2S	25	1.8	215	212	9	100				100				40	13	258	2.12	.8
DF	L	DM	3S	53	3.9	447	430	19	77	23			3	4	93	38	9	117	1.08	3.7	
DF	L	DM	4S	22		174	174	8	100				33	14	53	33	5	34	0.35	5.2	
DF L Totals				6	2.6	837	816	35	21	40	38		9	5	86	35	7	84	0.82	9.7	
DF		DM	3S	31		211	211	9	100				100				40	7	81	0.64	2.6
DF		DM	4S	61		400	400	17	100			8	48	43	28	5	29	0.29	13.6		
DF		DM	UT	8		53	53	2	100			100			7	5	6	0.17	9.6		
DF Totals				5		663	663	29	68	32		13	29	58	22	5	26	0.34	25.9		
Type Totals					1.2	13,007	12,847	555	7	62	25	6	7	9	75	8	22	7	58	0.62	221.0

T	Species, Sort Grade - Board Foot Volumes (Type)														Page		1					
	Project: CAMMDW														Date		1/23/2020					
															Time		2:44:38PM					
T23N R18E S27 T0002														T23N R18E S27 T0002								
Twp		Rge		Sec	Tract		Type	Acres	Plots		Sample Trees				CuFt	BdFt						
23N		18E		27	CAMMDW		0002	59.37	29		133				S	EW						
S So Gr T rt ad				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
				Log Scale Dia.					Log Length				Ln	Dia	Bd	CF/ Lf						
Spp									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft			
DF	DM	2S		1		128	128	8	100				100				40	13	240	1.78	.5	
DF	DM	3S		45	3.1	3,053	2,960	176	96	4			100				40	7	81	0.64	36.6	
DF	DM	4S		47	.4	3,100	3,089	183	85	15			23	25	8	44	26	5	28	0.29	111.8	
DF	DM	UT		7		459	459	27	100				57	43			5	5	5	0.20	87.1	
DF	Totals			37	1.6	6,740	6,635	394	46	50	4		15	15	4	67	20	5	28	0.39	236.1	
DF	L	DM	2S	30	.4	1,577	1,570	93	100				100				40	13	244	1.61	6.4	
DF	L	DM	3S	51	7.4	2,764	2,559	152	100				1				99	40	8	96	0.83	26.7
DF	L	DM	4S	17	1.7	865	850	50	77	23			7	15	8	70	32	5	36	0.39	23.6	
DF	L	DM	UT	2		98	98	6	100				100				6	5	6	0.18	16.5	
DF	L	Totals		28	4.2	5,303	5,077	301	15	54	31		3	2	2	93	30	7	69	0.74	73.2	
PP	L	DM	3S	2		97	97	6	100				100				32	16	370	3.67	.3	
PP	L	DM	4S	32	5.0	1,215	1,154	69	3	80	17		100				32	14	254	1.61	4.5	
PP	L	DM	5S	62	1.7	2,260	2,222	132	94	6			2	20	78		28	8	76	0.61	29.2	
PP	L	DM	UT	4		110	110	7	94	6			100				5	5	6	0.20	19.4	
PP	L	Totals		20	2.7	3,682	3,583	213	3	60	32	5	5	12	83		20	7	67	0.73	53.4	
PP	D	DM	5S	87	.9	1,307	1,295	77	100				5	7	88		29	7	69	0.56	18.8	
PP	D	DM	UT	13		187	187	11	100				100				8	5	9	0.19	20.2	
PP	D	Totals		8	.8	1,494	1,483	88	13	87			17	6	77		18	6	38	0.47	39.0	
PP	DM		UT	100		83	83	5	100				100				17	5	20	0.20	4.2	
PP	Totals			0		83	83	5	100				100				17	5	20	0.20	4.2	
GF	DM		3S	23	6.7	141	132	8	100				100				40	10	140	1.05	.9	
GF	DM		4S	29		161	161	10	34	66			11			89	30	5	36	0.43	4.5	
GF	DM		UT	48		264	264	16	72	28			48	24		28	19	5	23	0.34	11.5	
GF	Totals			3	1.7	565	556	33	44	56			26	11		62	23	6	33	0.44	16.9	
GF	L	DM	2S	50	12.6	320	280	17	100				100				40	13	207	1.45	1.4	
GF	L	DM	3S	34		191	191	11	100				100				40	8	85	0.59	2.2	
GF	L	DM	4S	16		83	83	5	100				61			39	31	5	33	0.33	2.5	
GF	L	DM	UT														7			0.00	.5	
GF	L	Totals		3	6.8	595	554	33	15	35	50		9			91	33	8	83	0.71	6.7	
WL	L	DM	3S	73	22.2	113	88	5	100				100				40	11	140	1.53	.6	
WL	L	DM	4S	27	.0	31	31	2	100				100				36	5	50	0.40	.6	
WL	L	Totals		1	17.4	144	119	7	26	74			100				38	8	95	1.00	1.3	
Type Totals						2.8	18,606	18,090	1,074	25	56	18	1	10	10	25	56	22	6	42	0.53	430.6

TC PSPCTLTCM		Species Summary - Trees, Logs, Tons, CCF, MBF									
<div><div>T23N R18E S27 Ty000143.1</div><div>T23N R18E S27 Ty000259.3</div></div>		Project		CAMMDW		Page No		1			
		Acres		102.56		Date:		1/23/2020			
						Time		2:44:40PM			
S		Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
Species	T	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
PONDEROS	L	2,955	6,294	2,540	35.82	16.82	0.80	1,058	1,058	490	481
DOUG FIR		9,285	15,132	3,439	12.99	7.97	0.40	1,207	1,206	429	423
DOUG FIR	L	2,226	4,763	3,065	48.30	22.58	0.74	1,075	1,075	351	337
PONDEROS	D	2,425	3,916	1,122	19.28	11.94	0.57	467	467	203	201
PONDEROS		2,328	3,535	629	11.23	7.40	0.44	262	262	116	114
GRAND F		727	1,004	288	13.83	10.01	0.44	101	101	34	33
GRAND F	L	181	395	268	51.56	23.66	0.72	93	93	35	33
W LARCH	L	37	74	67	75.64	37.82	1.00	28	28	9	7
Totals		20,164	35,114	11,418	21.28	12.22	0.56	4,292	4,290	1,666	1,629

Wood Type Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
C	20,164	35,114	11,418	21.28	12.22	0.56	4,292	4,290	1,666	1,629
Totals	20,164	35,114	11,418	21.28	12.22	0.56	4,292	4,290	1,666	1,629



Forest Practices Application/Notification

Notice of Decision

FPA/N No: 2707305

Effective Date: 6/16/2022

Expiration Date: 6/16/2025

Shut Down Zone: 675

EARR Tax Credit: ☐ Eligible ☒ Non-eligible

Reference: 27-23N-18E

WA DNR – "Lone Spruce"

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.
- ☐ **Withdrawn** Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
- ☐ **Closed** All forest practices obligations are met.

FPA/N Classification

Number of Years Granted on Multi-Year Request

☐ Class II ☒ Class III ☐ Class IVG ☐ Class IVS ☐ 4 years ☐ 5 years

Conditions on Approval/Reasons for Disapproval

1. Notify local DNR Forest Practices Forester at least two days prior to beginning operations under this FPA.
2. Haul on the C-3000 Road is limited to dry or frozen conditions only.
3. Per ICN #SE-22-22886, prior to haul, the C-3000 Road needs to be upgraded with improved ditches and the addition of several cross-drain culverts or rocked roll dips, in order to drain road surface and provide adequate west-to-east soil moisture movement.
4. No harvest or yarding equipment is allowed within any wetland. Trees may be directionally felled out of the wetland and yarded, with both harvest and yarding equipment staying out of the wetland.

Issued By: Marty Mauney

Region: Southeast

Title: Forest Practices Forester

Date: 6/16/2022

Copies to: ☐ Landowner, ☐ Timber Owner ☐ Operator

Issued in person: ☐ Landowner ☐ Timber Owner ☐ Operator

By: _____

Appeal Information

You have thirty (30) days to **file** (i.e., **actually deliver**) an appeal in writing of this Decision and any related State Environmental Policy Act (SEPA) determinations to the Pollution Control Hearings Board, the Attorney General's Office, and the Department of Natural Resources' region office. See [RCW 76.09.205](#). The appeal period starts when the applicant receives this decision, which usually happens electronically on the date indicated below.

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources Insert Region Region
<u>Physical Address</u> 1111 Israel Road, SW Suite 301 Tumwater, WA 98501	<u>Physical Address</u> 1125 Washington Street, SE Olympia, WA 98504	713 Bowers Road Ellensburg, WA 98926-9301
<u>Mailing address</u> Post Office Box 40903 Olympia, WA 98504-0903	<u>Mailing Address</u> Post Office Box 40100 Olympia, WA 98504-0100	

Information regarding the Pollution Control Hearings Board can be found at: <http://www.eluho.wa.gov/>

Other Applicable Laws

Operating as described in this application/notification does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.

Transfer of Forest Practices Application/Notification (WAC 222-20-010)

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices website <https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and>. Notify DNR of new Operators within 48 hours.

Continuing Forestland Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)

Obligations include reforestation, road maintenance and abandonment plans, conversions of forestland to non- forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

Before the sale or transfer of land or perpetual timber rights subject to continuing forest and obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land Obligation" form and send it to the DNR Region Office for retention. This form is available at DNR region offices.

If the seller fails to notify the buyer about the continuing forestland obligation, the seller must pay the buyer's costs related to continuing forestland obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forestland obligation against the seller.

Failure by the seller to send the required notice to DNR at the time of sale will be prima facie evidence in an action by the buyer against the seller for costs related to the continuing forestland obligation prior to sale.

DNR Affidavit of Mailing

On this day **6/17/2022**, I placed in the United States mail at **Ellensburg**, WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA #Enter FPA/N No.

Brenda Young

(Printed Name)

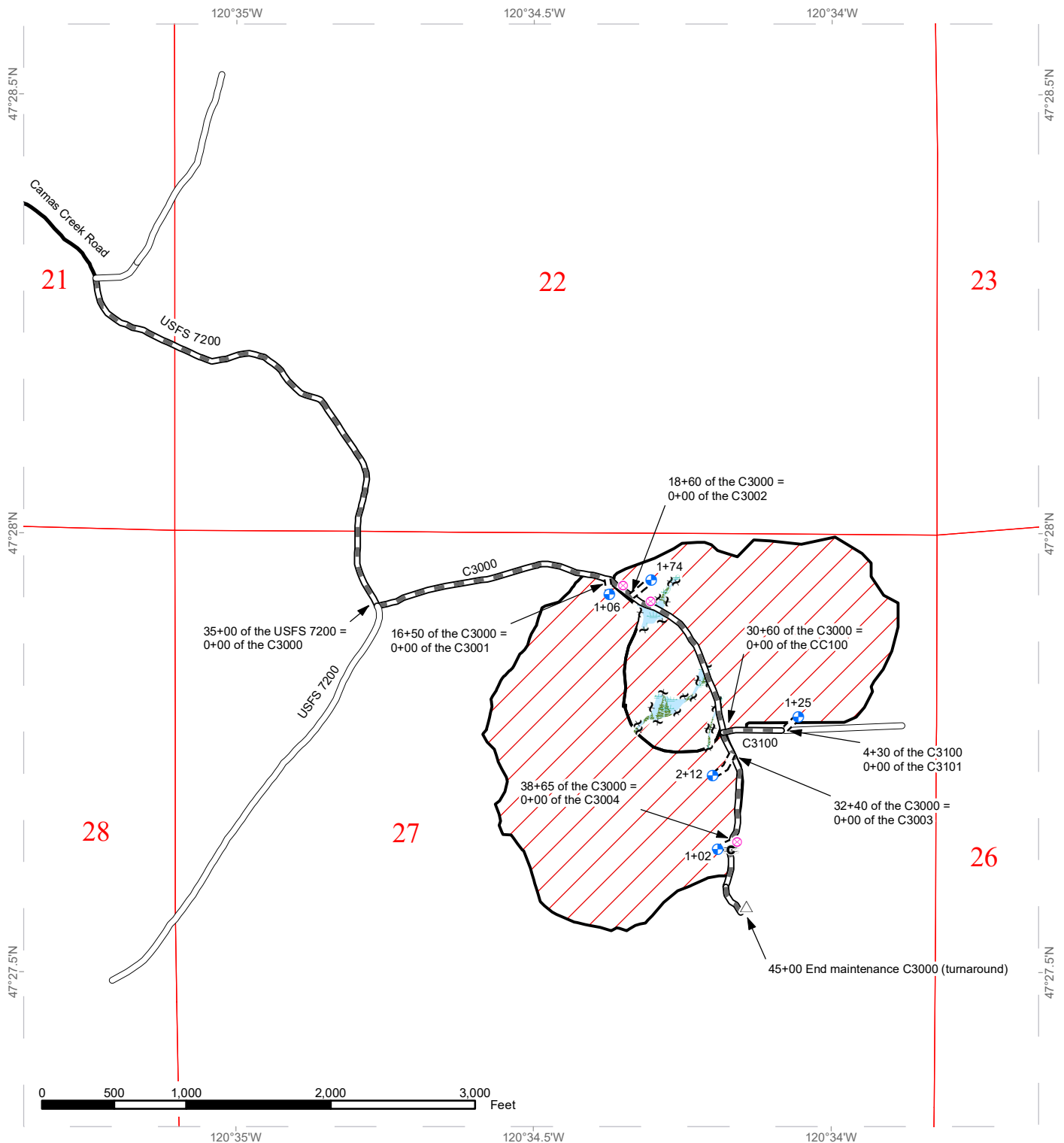
Brenda Young

(Signature)

LONE SPRUCE THINNING ROAD PLAN MAP

SALE NAME: Lone Spruce
TOWNSHIP(S): T23N R18E
TRUST(S): Natural Area

REGION: Southeast Region
COUNTY(S): Chelan
ELEVATION RGE: 2840-3040



Legend

- Public Land Survey Sections
- Public Land Survey Townships
- Unit
- Wetland

- required construction
- posthaul
- active
- county

- C Clean Culvert In/out
- + Proposed Landing
- X Known Telephone Box
- Turnaround



Modification Date: jsth490 11/22/2021

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

LONE SPRUCE THIN TIMBER SALE ROAD PLAN
CHELAN COUNTY
SOUTHEAST REGION

AGREEMENT NO.: 30-102834

STAFF ENGINEER: JOE SMITH

DATE: 11/22/2021

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 acquisition, 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>
C3000	0+00 to 45+00	Post-Haul Maintenance
C3001	0+00 to 1+06	Construction
C3002	0+00 to 1+74	Construction
C3003	0+00 to 2+12	Construction
C3004	0+00 to 1+02	Construction
C3100	0+00 to 4+30	Post-Haul Maintenance
C3101	0+00 to 1+25	Construction
USFS 7200	0+00 to 35+00	Post-Haul Maintenance

0-4 CONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
C3001	0+00 to 1+06	Clearing, grubbing, excavation to grade, debris disposal.
C3002	0+00 to 1+74	Clearing, grubbing, excavation to grade, debris disposal.
C3003	0+00 to 2+12	Clearing, grubbing, excavation to grade, debris disposal.
C3004	0+00 to 1+02	Clearing, grubbing, excavation to grade, debris disposal.
C3101	0+00 to 1+25	Clearing, grubbing, excavation to grade, debris disposal.

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>
C3000	0+00 to 45+00	Light grading, shape, compact.

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, unless controlled by construction stakes.

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.

1-8 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.

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

Purchaser shall perform road work in accordance with the state's marked location. All road work is marked as follows:

- Orange flagging on centerline for new construction.

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.

SUBSECTION TIMING

1-20 COMPLETE BY DATE

Purchaser shall complete road work, except items listed as post-haul, before the start of timber haul.

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

On the following roads, Purchaser shall notify the Contract Administrator a minimum of 7 calendar days before work begins.

<u>Road</u>	<u>Stations</u>
C3000	all

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
- Subgrade compaction

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period in Contract Clause H-130, Purchaser shall 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.

SUBSECTION RESTRICTIONS

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 2 inches on pit run roads.
- Wheel track rutting exceeds 4 inches on native surface roads.
- 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.

1-32 ASPHALT SURFACE RESTRICTION

The use of metal tracked equipment is not allowed on asphalt surfaces at any time. If Purchaser must run equipment on asphalt surfaces, then rubber tired equipment must be used.

If tracked equipment is used on asphalt surfaces, Purchaser shall immediately cease all hauling operations. Purchaser shall remove any dirt, rock, or other material tracked or spilled on the asphalt surface and have surface evaluated for any damage caused by transporting equipment. Any damage to the surface will be repaired, at the Purchaser's expense, as directed by the Contract Administrator.

1-33 SNOW PLOWING RESTRICTION

On all roads, snowplowing will be allowed after the execution of a SNOW PLOWING AGREEMENT, which is available from the Contract Administrator upon request. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

SUBSECTION OTHER INFRASTRUCTURE

1-43 ROAD WORK AROUND UTILITIES

Road work is in close proximity to a utility. Known utilities are listed, but it is the Purchaser's responsibility to identify any utilities not listed. 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 all applicable utilities before starting road work.

<u>Road</u>	<u>Stations</u>	<u>Utility</u>
C3000	All	Buried Phone Line Potential for other utilities.

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-050 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 roads in a condition that will allow the passage of light administrative and private vehicles.

<u>Road</u>	<u>Stations</u>
C3000	0+00 to 45+00
C3100	0+00 to 4+50
USFS 7200	0+00 to 35+00

2-6 CLEANING CULVERTS

Purchaser shall clean the inlets and outlets of all listed culverts.

<u>Road</u>	<u>Stations</u>
C3000	38+95

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION CLEARING

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.

3-7 RIGHT-OF-WAY DECKING

Purchaser shall deck all right-of-way timber. Decks must be parallel to the road centerline and placed within the cleared right-of-way. Decks must be free of dirt, limbs, and other right-of-way debris, and removable by standard log loading equipment from the roadbed.

3-8 PROHIBITED DECKING AREAS

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

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction and reconstruction of the road prism.
- In locations that impede drainage.
- Against standing trees.

SUBSECTION GRUBBING

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET and within waste and debris areas. Purchaser shall also remove stumps with undercut roots outside the grubbing limits.

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.

SUBSECTION ORGANIC DEBRIS

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clause G-010 PRODUCTS SOLD AND SALE AREA or G-011 RIGHT TO REMOVE FOREST PRODUCTS AND CONTRACT AREA, that is larger than one cubic foot in volume within the clearing limits as shown on the TYPICAL SECTION SHEET.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditch lines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, except burning, before start of timber haul.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 100 feet of a live stream.
- On road subgrades, or excavation and embankment slopes.
- 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

On all roads, Purchaser shall scatter organic debris outside of the grubbing limits, or as directed 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. Pioneering may not extend more than 1000 feet beyond completed construction unless approved in writing by the Contract Administrator. 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 except as designed:

- 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 (on side slopes up to 55%)	1:1	100
Common Earth (56% to 70% side slopes)	$\frac{3}{4}$:1	133
Common Earth (on slopes over 70%)	$\frac{1}{2}$:1	200
Fractured or loose rock	$\frac{1}{2}$:1	200
Hardpan or solid rock	$\frac{1}{4}$: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.

4-9 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.

SUBSECTION WASTE MATERIAL (DIRT)

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.

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas:

- Within 100 feet of a live stream.
- In locations that interfere with the construction and/or reconstruction of the road prism.
- In locations that impede drainage.
- Against standing timber.

SUBSECTION SHAPING

4-55 ROAD SHAPING

Purchaser shall shape the subgrade 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

At any time of the year, 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.

SUBSECTION COMPACTION

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material by routing excavation equipment over the entire width of each lift. Waste material may be placed by end-dumping or sidecasting until sufficiently wide enough to support the equipment.

4-61 SUBGRADE COMPACTION

Purchaser shall compact subgrades by routing excavation equipment over the entire width.

4-62 DRY WEATHER COMPACTION

At any time of the year, the 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 SURFACE COMPACTION

Contractor shall compact maintained road surfaces in accordance with the COMPACTION LIST.

SUBSECTION SURFACE DRAINAGE

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by November 1. Purchaser shall construct waterbars according to the attached 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 300 feet.

SECTION 6 – ROCK AND SURFACING

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 Contractor's expense. Rock sources are subject to written approval by the Contract Administrator before their use.

6-23 ROCK GRADATION TYPES

Contractor shall provide 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.

6-28 1 ¼-INCH MINUS CRUSHED ROCK

% Passing 1 ¼" square sieve	100%
% Passing 5/8" square sieve	50 - 80%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	3 - 18%
% Passing U.S. #200 sieve	5%

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.

6-58 ROCK MEASUREMENT BY SCALE

Measurement of the crushed rock will be accomplished with certified belt scales or certified platform scales provided by the Contractor.

6-70 APPROVAL BEFORE ROCK APPLICATION

Contractor shall obtain written approval from the Contract Administrator for SUBGRADE COMPACTION before rock application.

6-71 ROCK APPLICATION

Contractor 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. The Contract Administrator will direct locations for rock that is to be applied as spot patching. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

6-76 DRY WEATHER ROCK COMPACTION

On the following roads, 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.

<u>Road</u>	<u>Stations</u>
C3000	14+50 to 45+00

SUBSECTION DUST ABATEMENT**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>
C3000	0+00 to 45+00
USFS 7200	0+00 to 35+00

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>Station</u>
C3001	0+10
C3002	0+10
C3003	0+10
C3004	0+10
C3101	0+10

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Additional Requirements</u>
C3000	0+00 to 45+00	Grade, shape, and apply rock as specified in the ROCK LIST, and compact.
C3100	0+00 to 4+30	Grade and shape.
USFS 7200	0+00 to 35+00	Grade, shape, and compact.

SUBSECTION POST-HAUL LANDING MAINTENANCE

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage at all landing surfaces.

SUBSECTION DECOMMISSIONING AND ABANDONMENT

9-21 ROAD ABANDONMENT

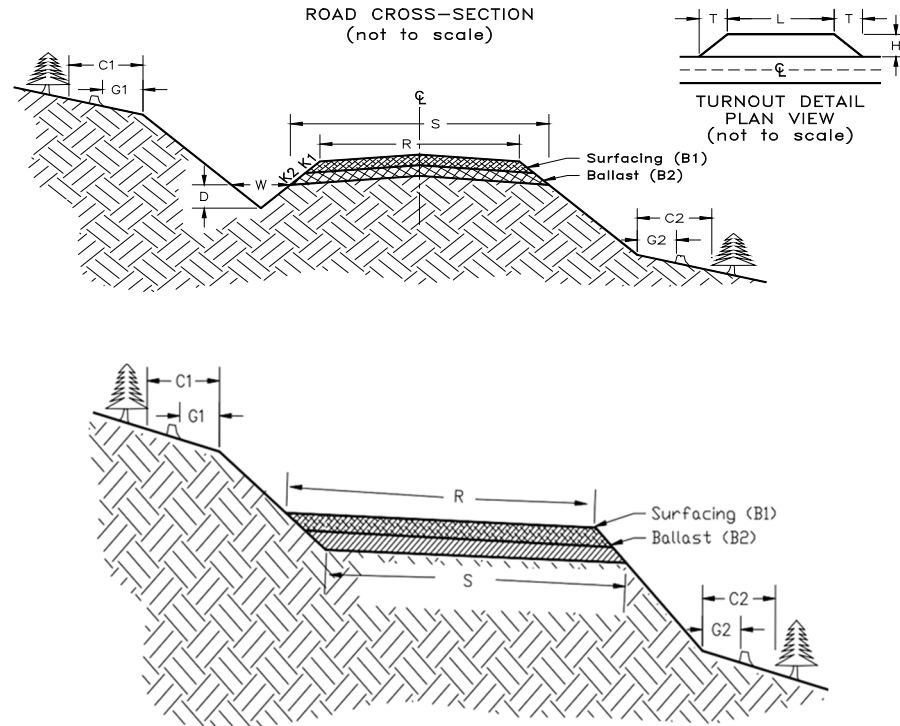
Purchaser shall abandon the following roads before the termination of this contract.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
C3001	0+00 to 1+06	Light
C3002	0+00 to 1+74	Light
C3003	0+00 to 2+12	Light
C3004	0+00 to 1+02	Light
C3101	0+00 to 1+25	Light

9-22 LIGHT ABANDONMENT

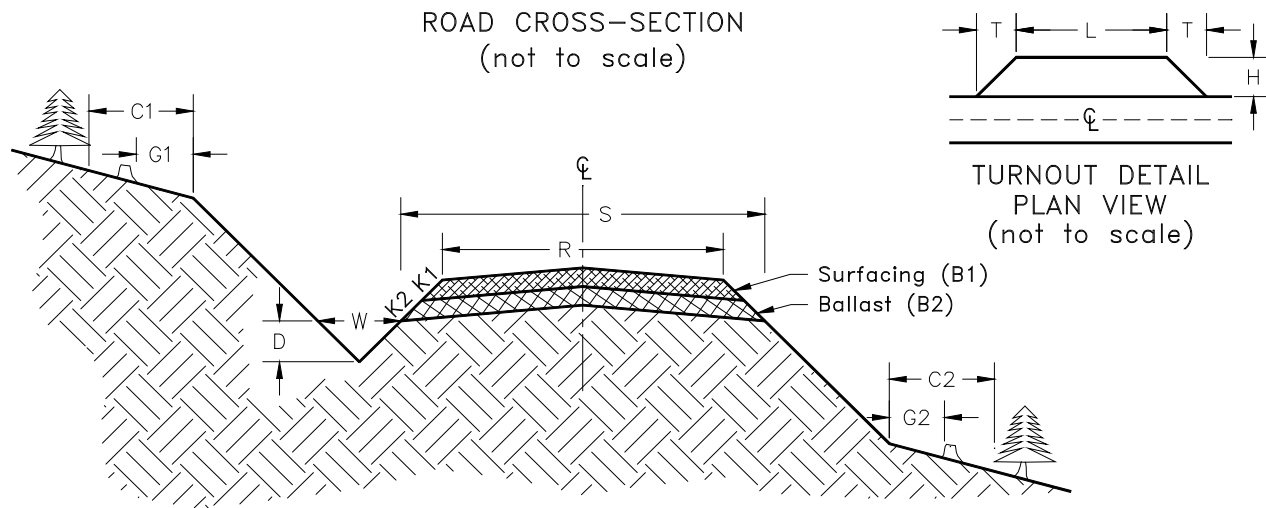
- Clean approach ditch lines to ensure water can flow freely down ditch.
- Rip the surface to a minimum depth of 10 inches.
- Install non-drivable waterbars as shown in the NON-DRIVABLE WATERBAR detail at a minimum of every 10 feet of vertical drop along road surface skewed to the downslope side.
- Pile woody debris at road entrance and scatter woody debris onto abandoned road surfaces to cover approximately 30% of surface area.

ROADWORK TYPICAL SECTION SHEET



ROAD	PRE-HAUL, POST-HAUL, CONSTRUCTION	FROM STATION	TO STATION	TOL. CLASS	SUBGRADE WIDTH S	CROWN INCHES @ CENTER LINE	OUTSLOPE INCHES IN 10 FEET	ROAD WIDTH R	DITCH		GRUBBING LIMITS		CLEARING LIMITS	
									WIDTH W	DEPTH D	G1	G2	C1	C2
USFS 7200	Post Haul	0+00	35+00	B		6"		16'	NA	NA	NA	NA	NA	NA
C3000	Post Haul	0+00	45+00	C		4"		14'	NA	NA	NA	NA	NA	NA
C3100	Post Haul	0+00	4+30	C		4"		12'	NA	NA	NA	NA	NA	NA
C3001	Construction	0+00	1+06	C	12'	NA	4"	12'	NA	NA	See Note	See Note	See Note	See Note
C3002	Construction	0+00	1+74	C	12'	NA	4"	12'	NA	NA	See Note	See Note	See Note	See Note
C3003	Construction	0+00	2+12	C	12'	NA	4"	12'	NA	NA	See Note	See Note	See Note	See Note
C3004	Construction	0+00	1+02	C	12'	NA	4"	12'	NA	NA	See Note	See Note	See Note	See Note
C3101	Construction	0+00	1+25	C	12'	NA	4"	12'	NA	NA	See Note	See Note	See Note	See Note

NOTE: GRUBBING LIMITS FOR CONSTRUCTION ARE 1' BEYOND EDGE OF ROAD. CLEARING LIMITS, SEE RIGHT-OF-WAY SPECIFICATION SHEET.



ROCK LIST – 1 ¼ INCH MINUS

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	Tons/ Station	# of Stations	Tons Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K2	B2					L	H	T
C3000	14+50	45+00	1 ½:1	4"	31	45.00	950	Commercial			

1 1/4 INCH MINUS TOTAL 950 Tons

COMPACTION LIST

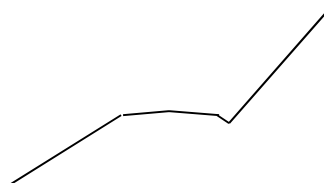
Road	From Station	To Station	Type	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)	Maximum Amount of Deflection (inches)
C3000	0+00	45+00	Surfacing	4"	Vibratory Smooth Drum	16000	3	3	
C3001	0+00	1+06	Subgrade		Excavation Equipment	20000	2	3	
C3002	0+00	1+24	Subgrade		Excavation Equipment	20000	2	3	
C3003	0+00	2+12	Subgrade		Excavation Equipment	20000	2	3	
C3004	0+00	1+02	Subgrade		Excavation Equipment	20000	2	3	
C3101	0+00	1+25	Subgrade		Excavation Equipment	20000	2	3	
USFS 7200	0+00	35+00	Existing Surfacing		Vibratory Smooth Drum	16000	3	3	

RIGHT-OF-WAY SPECIFICATION SHEET

Based on a 12' road width. All clearing distances are measured horizontally from the centerline of the road. All ditches are 1' deep. Ditched roads are crowned 4" at the centerline. Roads with no ditch are outsloped 4" in 10'.

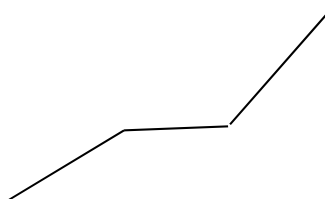
CROWNED ROAD WITH DITCH RIGHT

<u>Sideslope</u>	<u>Clearing Left</u>	<u>Clearing Right</u>
0-10%	16'	14'
10-20%	17'	15'
20-30%	19'	17'
30-40%	22'	18'
40-50%	27'	22'



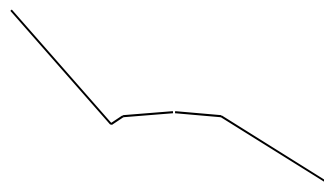
OUTSLOPE LEFT ROAD

<u>Sideslope</u>	<u>Clearing Left</u>	<u>Clearing Right</u>
0-10%	16'	11'
10-20%	17'	12'
20-30%	19'	13'
30-40%	22'	15'
40-50%	27'	17'



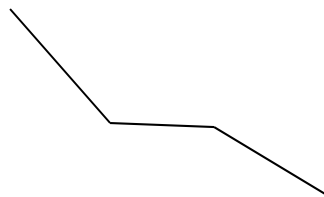
CROWNED ROAD WITH DITCH LEFT

<u>Sideslope</u>	<u>Clearing Left</u>	<u>Clearing Right</u>
0-10%	14'	16'
10-20%	15'	17'
20-30%	17'	19'
30-40%	18'	22'
40-50%	22'	27'



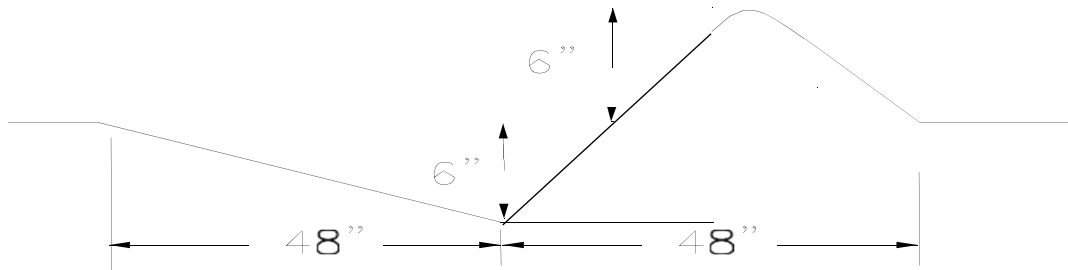
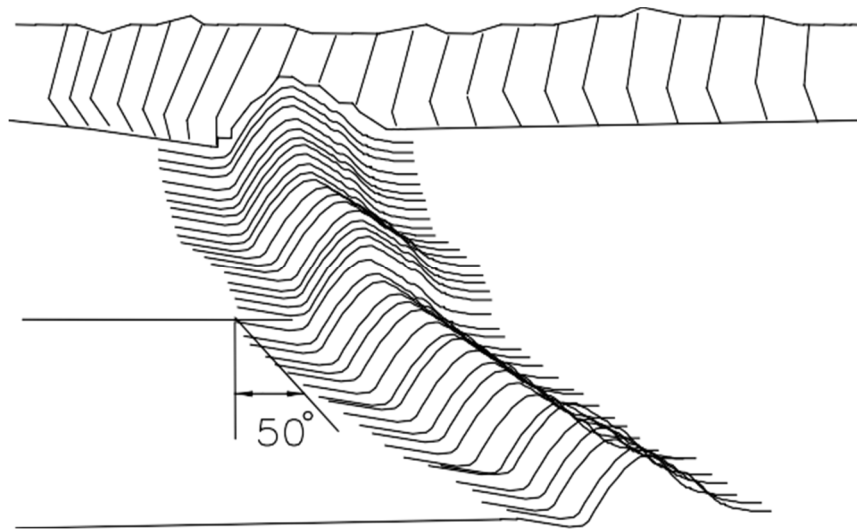
OUTSLOPE RIGHT ROAD

<u>Sideslope</u>	<u>Clearing Left</u>	<u>Clearing Right</u>
0-10%	11'	16'
10-20%	12'	17'
20-30%	13'	19'
30-40%	15'	22'
40-50%	17'	27'

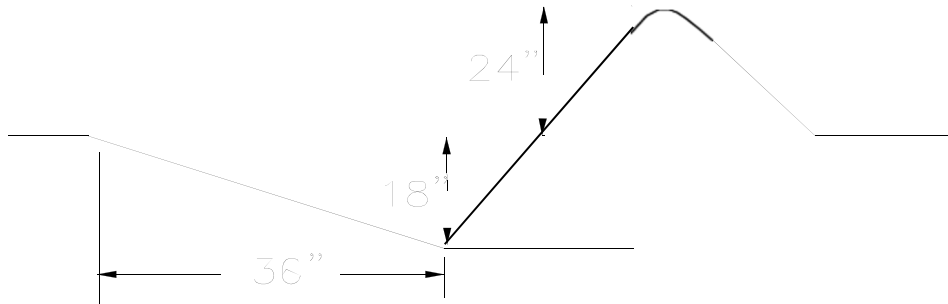
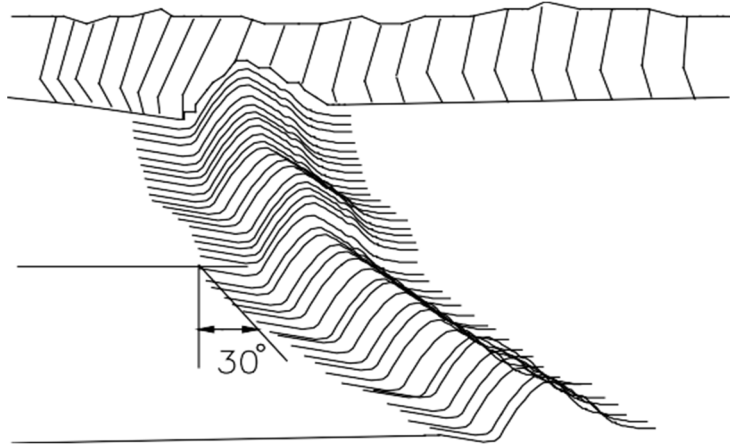


WATER BAR DETAILS

DRIVABLE WATER BAR



NON-DRIVABLE WATER BAR



FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Cuts and Fills

- Maintain slope lines to a stable gradient compatible with the cut slope/fill slope ratios. Remove slides up to 50 cubic yards in volume 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 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

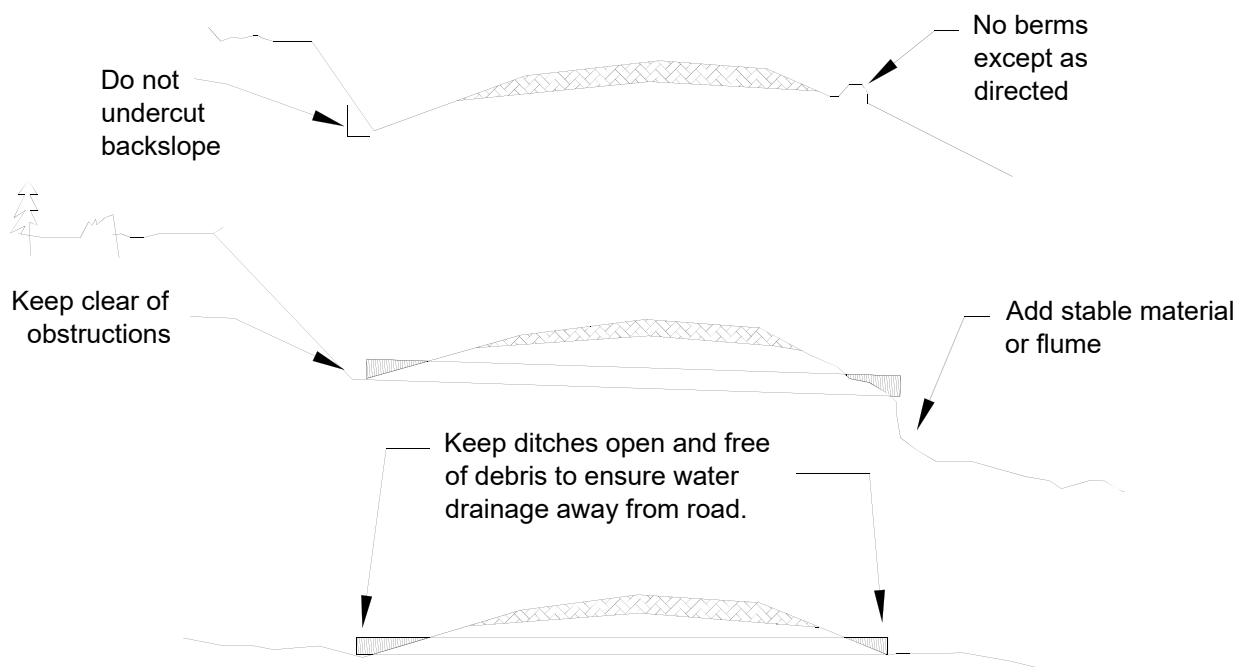
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

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.



SUMMARY - Road Development Costs

REGION: Southeast

DISTRICT: Natural Areas

SALE/PROJECT NAME: Lone Spruce Thinning

CONTRACT #: 30-102834

ROAD NUMBERS: C3001,3002,3003,3004,3101 USFS 7200, C3000, C3100

ROAD STANDARD: Construction

NUMBER OF STATIONS: 7.19

CLEARING & GRUBBING: \$647.10

EXCAVATION AND FILL: \$1,132.43

MISC. MAINTENANCE: -

ROAD ROCK: -

MOBILIZATION: \$1,600.00

TOTAL COSTS: \$3,379.53

COST PER STATION: \$470.03

FINAL MAINTENANCE \$20,327.30

ABANDONMENT COSTS: \$677.97

POST-HAUL MOBILIZATION \$1,975.00

CONTRACTOR OVERHEAD \$3,953.97

TOTAL (All Roads) = \$30,313.76
SALE VOLUME MBF = 1,000
TOTAL \$/MBF = \$30.31

Compiled by: Joe Smith

Date: 11/22/2021