

Washington DNR Timber Sales Program

**Updated information is being provided for Little Lilly #30-106363 timber sale documents as follows:**

**Documents amended:**

<b>Brief Description</b>	<b>DATE</b>	<b>Initials</b>
Information has been added to the Notice of Sale and Draft Contract language:  ATTENTION: The Legacy Forest Defense Coalition has appealed the Board of Natural Resources approval of the “Little Lilly” timber sale (Agreement No. 30-106363) to Whatcom County Superior Court. To ensure this information reaches perspective bidders, we will allow a 2-minute opportunity to remove any submitted bids for “Little Lilly” timber sale before opening the envelopes.	11/08/2024	WC
Letter to prospective purchasers from region manager regarding Notice of Legal Appeal.	11/15/2024	WC



**DEPARTMENT OF NATURAL RESOURCES**

**NORTHWEST REGION**  
919 NORTH TOWNSHIP STREET  
SEDRO-WOLLEY, WA 98284-9384

**(360) 856-3500**  
northwest.region@dnr.wa.gov  
WWW.DNR.WA.GOV

**To: Prospective Purchasers of Little Lilly Timber Sale**

**From: Jay Guthrie, Northwest Region Manager**

**Subject: Notice of Legal Appeal**

**Date: November 14, 2024**

This letter is to ensure you are aware that the Legacy Forest Defense Coalition and Center for Responsible Forestry filed a legal appeal on the Little Lilly Timber Sale (Agreement No. 30-106363) and associated environmental review. Language about the lawsuit has been added to the Notice of Sale.

**The appeal requests:**

- An order invalidating the Board's approval of the Little Lilly timber sale for auction, based on violations of the Public Lands Act and SEPA;
- An order invalidating the DNS for the Little Lilly timber sale as violating SEPA and "clearly erroneous";
- An order declaring the Little Lilly timber sale has probable, significant adverse impacts to the environment, necessitating preparation of an environmental impact statement;
- An order enjoining or requiring DNR to enjoin all forest practices pursuant to the Little Lilly timber sale;
- If forest practices are carried out prior to the requested relief before this Court or on review in a court of appeals, an order requiring mitigation for any and all impacts of the Little Lilly timber sale;
- An order granting Appellants their costs and attorneys' fees based on the Equal Access to Justice Act, RCW Ch. 4.84, or any other applicable provision of law; and
- Any other relief that this Court deems just and proper.

The lawsuit was filed with Whatcom County Superior Court as Case No. 24-2-01926-37.

**Please consult an attorney before bidding on this sale if you have questions about the risk associated with the lawsuit.**

Notice of the appeal will be shared again verbally prior to auction of the sale on November 20, 2024

**Please be aware:**

- Appellants may request a temporary restraining order or preliminary injunction from the court.
- Your bid on the Little Lilly Timber Sale, and your operations under the contract, will be conducted with the acknowledgment that the court could order DNR to shut down your operations.
- The State is not responsible for legal actions filed by third-parties that may affect the operability of timber sales.
- The purchaser assumes the risk of loss for any costs, damages, or business expectations related to this resulting from such legal action.
- The standard 10-day confirmation period applies as with all DNR timber sales.

DNR values our customers and wanted to ensure you are informed of the situation prior to auction.



TIMBER NOTICE OF SALE

SALE NAME: LITTLE LILLY

AGREEMENT NO: 30-106363

AUCTION: November 20, 2024 starting at 10:00 a.m., COUNTY: Whatcom Northwest Region Office, Sedro Woolley, WA

SALE LOCATION: Sale located approximately 22 miles northeast of Sedro-Woolley, WA.

PRODUCTS SOLD AND SALE AREA:

All timber bounded by white timber sale boundary tags and VZ-60 Road, except trees 60 inches or larger measured at diameter at breast height, forest products tagged out by yellow leave tree area tags, trees marked with blue paint on the bole and root collar, and cedar snags, preexisting dead and down cedar trees and cedar logs, in Unit #1.

All timber bounded by white timber sale boundary tags and adjacent young stand and VZ-ML and VZ-59 roads, except trees 60 inches or larger measured at diameter at breast height, forest products tagged out by yellow leave tree area tags, trees marked with blue paint on the bole and root collar, and cedar snags, preexisting dead and down cedar trees and cedar logs, in Unit #2.

All timber bounded by white timber sale boundary tags, except trees 60 inches or larger measured at diameter at breast height, forest products tagged out by yellow leave tree area tags, trees marked with blue paint on the bole and root collar, and cedar snags, preexisting dead and down cedar trees and cedar logs, in Unit #3.

All timber bounded by white timber sale boundary tags and adjacent young stands, except trees 60 inches or larger measured at diameter at breast height, forest products tagged out by yellow leave tree area tags, trees marked with blue paint on the bole and root collar, and cedar snags, preexisting dead and down cedar trees and cedar logs, in Unit #4.

All timber bounded by orange right of way tags.

All forest products above located on part(s) of Sections 10, 14, 15, 22 and 23 all in Township 38 North, Range 5 East, W.M., containing 89 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

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

MINIMUM BID: \$1,592,000.00 BID METHOD: Sealed Bids

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



## TIMBER NOTICE OF SALE

**EXPIRATION DATE:** March 31, 2027 **ALLOCATION:** Export Restricted

**BID DEPOSIT:** \$159,200.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

**HARVEST METHOD:** Cable; shovel on sustained slopes 40% or less; tethered or untethered "6-wheeled rubber-tired skidders with over-the-tire tracks spanning both sets of rear tires" (See below for restrictions); self-leveling feller-buncher/harvester for falling on sustained slopes 55% or less; tethered feller-buncher/harvester for falling and yarded by cable (See below for restrictions); also, a feller-buncher may be utilized on sustained slopes 40% or less.

Purchaser must obtain prior written approval from the Contract Administrator for areas as to where to utilize untethered or tethered "6-wheeled rubber-tired skidders with over-the-tire tracks spanning both sets of rear tires", as well as tethered feller-bunchers/harvesters, prior to use. This includes approved areas to utilize the equipment as well as any additional mitigation measures set forth by the Contract Administrator. If ground disturbance is causing excessive damage, as determined by the Contract Administrator, the equipment will no longer be authorized. Falling and Yarding will not be permitted from November 1 to March 31 unless authorized in writing by the Contract Administrator (THIS PERTAINS TO GROUND-BASED EQUIPMENT ONLY) to reduce soil damage and erosion.

**ROADS:** 23.40 stations of required construction. 28.21 stations of optional construction. 512.91 stations of required prehaul maintenance. 15.21 stations of abandonment. 28.21 stations of abandonment, if built.

Rock may be obtained from the following source(s) on State land at no charge to the Purchaser: McCoy Pit at station 22+50 of the MM-22 Road. Travelin Light Pit at Station 18+75 of the VZ-5807 Road. Little Lilly Pit at station 4+00 of the VZ-5906 Road.

Development of existing rock source(s) will involve drilling, shooting, and processing rock to generate riprap, shot rock, and 3-inch-minus ballast rock.

An estimated total quantity of rock needed for this proposal: 130 cubic yards of riprap, 2,250 cubic yard of shot rock and 3,025 cubic yards of 3-inch minus ballast rock.

Road work and the hauling of rock will not be permitted from November 1 to March 31 unless authorized in writing by the Contract Administrator to reduce soil damage and siltation. The hauling of forest products will not be permitted from November 1 to March 31 unless authorized in writing by the Contract Administrator to reduce soil damage and siltation.

### ACREAGE DETERMINATION

**CRUISE METHOD:** Acres determined by GPS/ArcGIS traverse for units and for right-of-way. Cruise was conducted via variable plot sample type, as well as fixed plot for right-of-way. See Cruise Narrative for further details. Shapefiles of units are available upon request, and on the DNR website after the BNR meeting in which the sale is presented.

**FEES:** \$68,085.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

**SPECIAL REMARKS:** 1. A portion of the road work, VA-3804 road, is on abandoned grade.



## TIMBER NOTICE OF SALE

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2. HQ DF and DF pole quality timber noted within the sale area. See cruise for further details.
3. All trees 60 inches or larger measured at diameter at breast height are excluded from the products sold.

**ATTENTION:**

**The Legacy Forest Defense Coalition has appealed the Board of Natural Resources approval of the “Little Lilly” timber sale (Agreement No. 30-106363) to Whatcom County Superior Court. To ensure this information reaches perspective bidders, we will allow a 2-minute opportunity to remove any submitted bids for “Little Lilly” timber sale before opening the envelopes.**

**Schedule Z**  
**Operations Outside of Sale Boundaries**

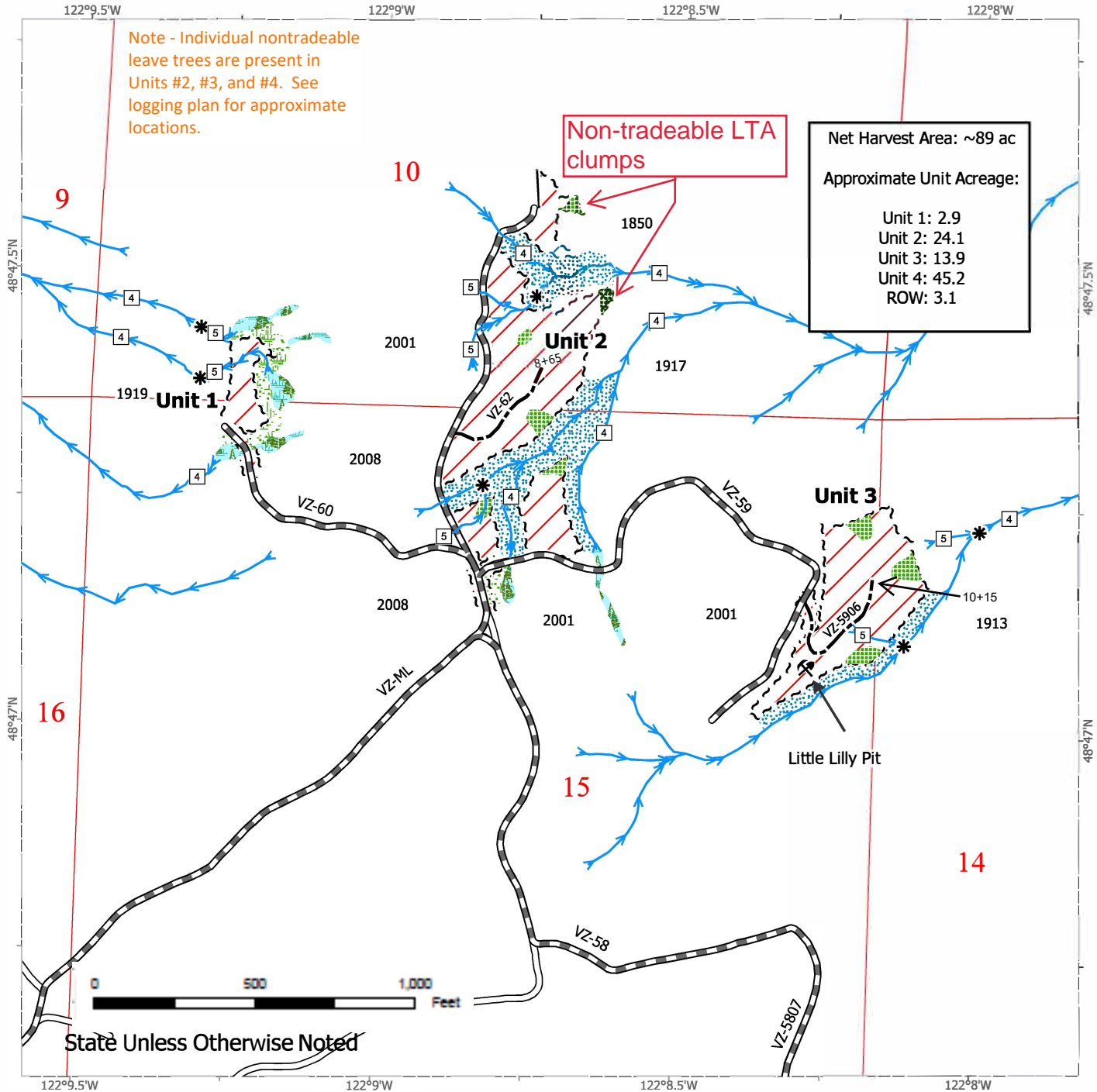
No operations are allowed to occur outside of the timber sale boundaries for Units 1, 2, and 3. This restriction includes all boundaries marked with timber sale tags to protect critical habitats and public resources. The restrictions include no felling of timber toward boundaries when the line may be crossed, no equipment entry, no tailholds or guylines and no corridors. These restrictions do not apply to adjacent road rights-of-way since these are considered within the timber sale boundaries.

There are several “No Entry Zones” adjacent to Unit 4. No operations are allowed to occur in these areas. The restrictions include no felling of timber toward boundaries when the line may be crossed, no equipment entry, no harvest related infrastructure such as skylines, guylines and tailholds, and no corridors. See timber sale maps for their locations.

# TIMBER SALE MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT #:** 30-106363  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

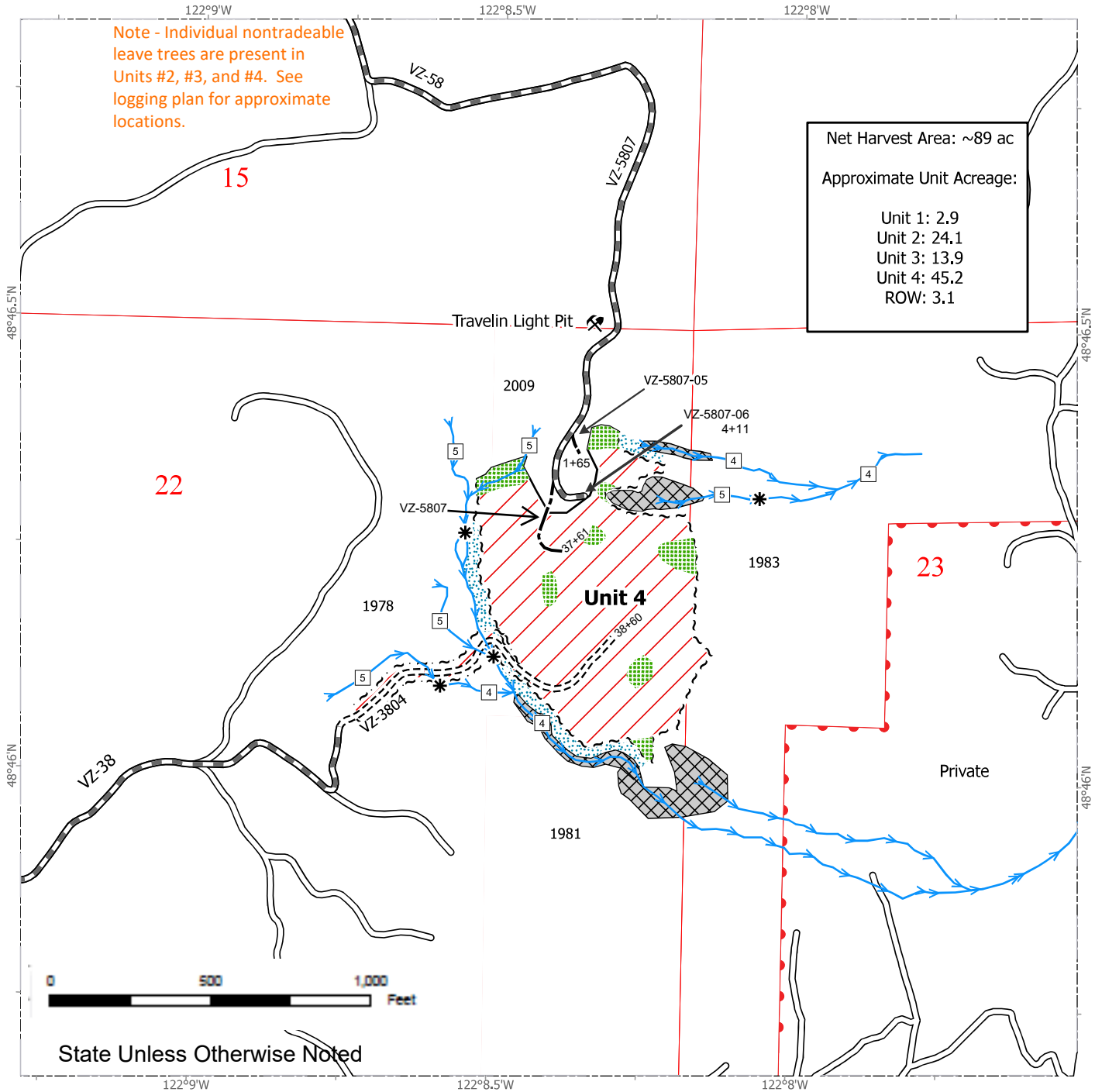
**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120



# TIMBER SALE MAP

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**REGION:** Northwest Region  
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**ELEVATION RGE:** 1600-2120



Note - Individual nontradeable leave trees are present in Units #2, #3, and #4. See logging plan for approximate locations.

Net Harvest Area: ~89 ac  
 Approximate Unit Acreage:  
 Unit 1: 2.9  
 Unit 2: 24.1  
 Unit 3: 13.9  
 Unit 4: 45.2  
 ROW: 3.1

State Unless Otherwise Noted

Sale Area	Sale Boundary Tags	Streams
Leave Tree Area	Right of Way Tags	Stream Type
Riparian Mgt Zone	Timber Type Change	Stream Break
	Existing Roads	Rock Pit
	Required Pre-Haul Maintenance	No Entry Zone
	Required Construction	
	Optional Construction	

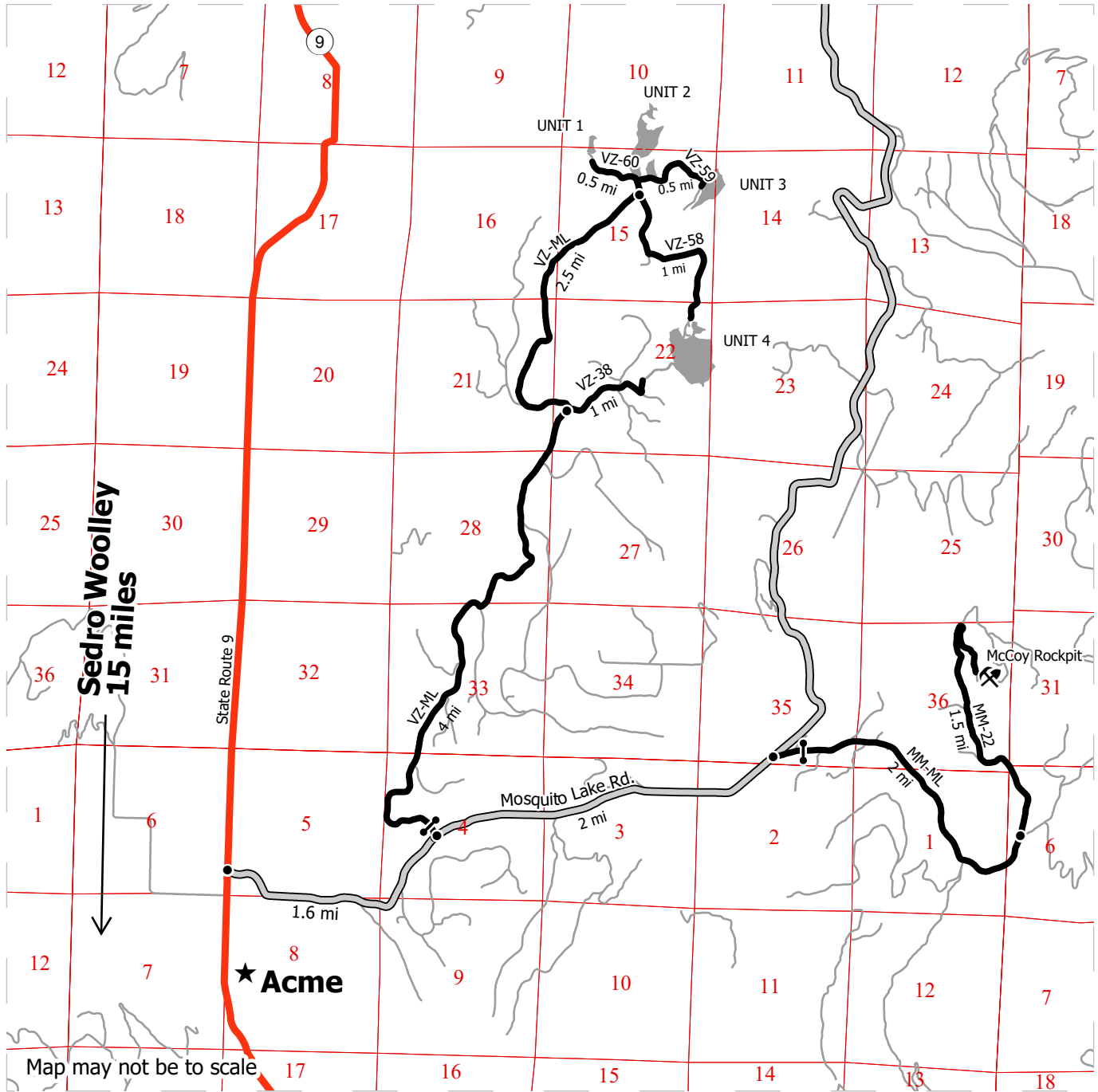




# DRIVING MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT #:** 30-106363  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120



Map may not be to scale

	Harvest Unit
	Highway
	Haul Route
	Other Route
	County Road
	Distance Indicator
	Gate
	Rock Pit

**DRIVING DIRECTIONS:**

From Sedro Woolley, travel 15 miles north on State Route 9 and turn right onto Mosquito Lake Rd. Continue 1.6 miles, then turn left onto the VZ-ML (F 1-3 required). Continue 4 miles to the VZ-38 junction. Continue straight on the VZ-38 road for 1 mile to access lower portion of Unit 4 or stay left on the VZ-ML for another 2.5 miles to the VZ-58 junction. Turn right on the VZ-58 road for 1 mile to access upper portion of Unit 4 or stay straight on VZ-ML for another 500 feet to access Unit 2. From there either turn right on the VZ-59 road and travel 0.5 miles to Unit 3 or turn left on the VZ-60 road and travel 0.5 miles to Unit 1.

To access the McCoy Rock Pit, continue 2 miles beyond the VZ-ML junction on Mosquito Lake Road and turn right onto the MM-ML (F 1-3 key required). Continue 2 miles and bare left onto MM-22 for another 1.5 miles to access the McCoy Rockpit.



**STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES**

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

**Export Restricted Lump Sum AGREEMENT NO. 30-0106363**

**SALE NAME: LITTLE LILLY**

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on November 20, 2024 and the sale was confirmed on \_\_\_\_\_. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber bounded by white timber sale boundary tags and VZ-60 Road, except trees 60 inches or larger measured at diameter at breast height, forest products tagged out by yellow leave tree area tags, trees marked with blue paint on the bole and root collar, and cedar snags, preexisting dead and down cedar trees and cedar logs, in Unit #1.

All timber bounded by white timber sale boundary tags and adjacent young stand and VZ-ML and VZ-59 roads, except trees 60 inches or larger measured at diameter at breast height, forest products tagged out by yellow leave tree area tags, trees marked with blue paint on the bole and root collar, and cedar snags, preexisting dead and down cedar trees and cedar logs, in Unit #2.

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All timber bounded by orange right of way tags.

All forest products described above located on approximately 89 acres on part(s) of Sections 10, 14, 15, 22, and 23 all in Township 38 North, Range 5 East W.M. in Whatcom County(s) as designated on the sale area and as shown on the attached timber sale map.

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

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

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
Z	Operations Outside of Sale Boundaries

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to March 31, 2027.

G-040 Contract Term Adjustment - No Payment

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

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

## G-051 Contract Term Extension - Payment

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

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

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

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

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

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

- e. Payment of \$862.00 per acre per annum for the acres on which an operating release has not been issued in the sale area.
- 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.

**The Legacy Forest Defense Coalition has appealed the Board of Natural Resources approval of the "Little Lilly" timber sale (Agreement No. 30-106363) to Whatcom County Superior Court. To ensure this information reached perspective bidders, we allowed a 2-minute opportunity to remove any submitted bids for "Little Lilly" timber sale before opening the envelopes.**

G-061 Inadvertent Discovery of Cultural Resources

Purchaser acknowledges that cultural resources as defined in WAC 222-16-010 may exist within the timber sale area and that the existence and location of such resources

may be unknown at the time this contract is executed. Purchaser has a duty to exercise due care in its operations and in the event any human skeletal remains are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify local law enforcement in the most expeditious manner possible then notifying the Contract Administrator. In the event cultural resources are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify the Contract Administrator. Any potential resources shall not be removed or disturbed. Purchaser shall resume operations as directed in writing by the Contract Administrator.

#### G-062 Habitat Conservation Plan

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

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

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

#### G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in

streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.

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

#### G-064 Permits

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

#### G-065 Regulatory Disclaimer

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

#### G-066 Governmental Regulatory Actions

##### a. Risk

Purchaser shall be responsible for any increased operational costs arising from any applicable foreign or domestic governmental regulation or order that does not cause contract performance to become commercially impracticable or that does not substantially frustrate the purpose of the contract. If impracticability or frustration results from Purchaser's failure to comply with this contract,



Purchaser shall remain responsible for payment of the total contract price notwithstanding the impracticability or frustration.

b. Sale Area

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

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

c. Adjustment of Price

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

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-101 Forest Products Not Designated

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

Contract Item	Appraised Price	Overbid Factor	Price	Fees	Contract Payment Rate
Douglas fir	\$412.17	0	\$0.00	\$9.00	\$9.00
Hemlock	\$308.09	0	\$0.00	\$9.00	\$9.00
Red alder	\$318.87	0	\$0.00	\$9.00	\$9.00
Redcedar	\$659.57	0	\$0.00	\$9.00	\$9.00
Other	\$395.02	0	\$0.00	\$9.00	\$9.00

G-106 Adding Naturally Damaged Forest Products

Any forest products not designated for removal that are seriously damaged by disease, insects or wind, or that may contribute seriously to the spread of insect or disease damage may be added to this sale by the State's Contract Administrator. Additions must be in unlogged areas of the sale and added volume shall not exceed an amount equal to 10 percent of the original advertised volume. Added forest products become a part of this contract and shall be paid for at the rate set forth in clause G-101, G-102 or G-103.

G-111 Title and Risk of Loss

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

**G-116 Sustainable Forestry Initiative® (SFI®) Certification**

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative 2022 Forest Management Standard under certificate number: BVC-SFIFM-018227.

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 Standard. Purchaser shall designate in writing the name(s) of the individual(s) who will be on-site and provide proof of their successful completion of an approved training program prior to active operations.

**G-120 Responsibility for Work**

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

**G-121 Exceptions**

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

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

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

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

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

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

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

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

G-140 Indemnity

To the fullest extent permitted by law, Purchaser shall indemnify, defend and hold harmless State, agencies of State and all officials, agents and employees of State, from and against all claims arising out of or resulting from the performance of the contract. "Claim" as used in this contract means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable for bodily injury, sickness, disease or death, or injury to or destruction of tangible property including loss of use resulting therefrom. Purchasers' obligations to indemnify, defend, and hold harmless includes any claim by Purchasers' agents, employees, representatives, or any subcontractor or its employees. Purchaser expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Purchasers' or any subcontractors' performance or failure to perform the contract. Purchasers' obligation to indemnify, defend, and hold harmless State shall not be eliminated or reduced by any actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Purchaser waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

G-150 Insurance

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

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

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

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

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

Purchaser shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Purchaser's liability or responsibility.

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

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

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

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

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

that include, but are not limited to, fire suppression expenses, accidental timber trespasses, and wildfire property damage with limits of not less than \$2,000,000.00 each occurrence.

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

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

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

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

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

#### G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Sedro-Woolley, 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; VZ-ML, VZ-38, VZ-3804, VZ-58, VZ-5807, VZ-5807-05, VZ-5807-06, VZ-59, VZ-5906, VZ-60, VZ-62, MM-ML, and MM-22. 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-380 Road Easement and Road Use Permit Requirements

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

Easements with:

Georgia-Pacific Corporation; #55-000022; dated November 26, 1968.

Georgia-Pacific Corporation; #55-000022 Supplement; dated February 1, 1971.

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:

Assessment, including the terms and provisions thereof,

For: Flood Control District

In Favor of: Whatcom County

Disclosed by Application No.: 79-000275

Granted: 4/14/1992

Expires: Indefinite

Section P: Payments and Securities

P-011 Initial Deposit

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

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of DATA MISSING: No Bid Price Set. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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

P-045 Guarantee of Payment

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

## P-050 Billing Procedure

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

## P-080 Payment Account Refund

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

## P-090 Performance Security

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

## P-100 Performance Security Reduction

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

## Section H: Harvesting Operations

## H-010 Cutting and Yarding Schedule

Falling and Yarding will not be permitted from November 1 to March 31 BY GROUND-BASED EQUIPMENT unless authorized in writing by the Contract Administrator.

## H-013 Reserve Tree Damage Definition

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

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

- a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 288 square inches.
- b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

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

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

#### 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 12 feet in width, including rub trees.
- b. Skid trails shall not cover more than 15 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.

The above requirements pertain to the use of "6-wheeled rubber-tired skidders with over-the-tire tracks spanning both sets of rear tires".

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

H-018 Temporary Stream Crossings

A temporary stream crossing is required to access Unit 1 north of the type 5 stream.

Purchaser shall comply with the following during the yarding operation:

- a. Adhere to the approved Hydraulic Permit Application (HPA) or Forest Practice Application (FPA) with approved hydraulic project work, if required, amend a current FPA or obtain a new FPA prior to commencing any new stream crossing construction.
- b. Location of the temporary stream crossing must be approved by the Contract Administrator.
- c. A temporary stream crossing shall not exceed 12 feet in width, including rub trees.
- d. Purchaser shall suspend operations during periods of wet weather when a high potential for sediment delivery into typed waters may occur.
- e. Temporary stream crossings shall be removed at the time of completion of yarding as 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-035 Fall Trees Into Sale Area

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

H-051 Branding and Painting

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

timber purchased under a contract designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using cable; shovel on sustained slopes 40% or less; tethered or untethered “6-wheeled rubber-tired skidders with over-the-tire tracks spanning both sets of rear tires” (See H-141 for restrictions); self-leveling feller-buncher/harvester for falling on sustained slopes 55% or less; tethered feller-buncher/harvester for falling and yarded by cable (See H-141 for restrictions); also, a feller-buncher may be utilized on sustained slopes 40% or less. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities.

H-126 Tailholds on State Land

If Purchaser tailholds on State land, methods to minimize damage to live trees outside the sale area shall be employed and must be approved in writing by the Contract Administrator.

H-130 Hauling Schedule

The hauling of forest products will not be permitted from November 1 to March 31 unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

A. The following types of equipment are considered ground-based equipment:

SHOVEL is defined as a low ground pressure track-mounted machine with hydraulic boom and grapple capable of picking up one end of the largest log 25 feet from the center of the machine.

LOG PROCESSOR/DE-LIMBER is defined as a mobile machine with a hydraulic boom capable of simultaneously bucking, delimiting and/or debarking and chipping whole trees while sitting stationary at the landing.

FELLER-BUNCHER/HARVESTER is defined as a track mounted machine with hydraulic boom and cutter head capable of felling, bucking, limbing, and decking logs in one operation.

B. Maintain a 30-foot equipment limitation zone on either side of all Type-5 streams. Trees shall be felled away from stream channels and any standing water or wet swales when feasible.

C. When yarding and loading operations are occurring simultaneously, an additional shovel shall be required for loading to avoid extra trips to the landing. Shovel yarding shall not be allowed to create ruts or soil puddling. Shovel routes should be dispersed to prevent creation of definable trails.

D. An on-site pre-work meeting that includes the Contract Administrator and Purchaser will be required after operations have been disrupted (leading to a cessation of operations) or operations moved off site for a period of more than 6 weeks before any activities resume on site.

E. Exposed mineral soils created by falling or yarding operations with the potential to deliver sediment to any watercourse must be mulched, water-barred and/or grass seeded prior to November 1st or concurrent with operations between November 1st and March 31st.

F. Temporary log crossings and their location are required for typed water crossings during yarding or road construction operations and must be approved in writing by the Contract Administrator. Streambeds and banks shall be protected by the use of log puncheon or other approved structures at these crossing points and removed upon the completion of yarding activities.

G. Leave trees marked with a single blue band may be exchanged for unmarked trees of similar size and wildlife characteristics upon prior approval by the Contract Administrator.

H. The VZ-ML gate shall be closed at the end of shift every day unless otherwise authorized in writing by the Contract Administrator. However, the State may choose to open the gate from September 16 through December 31, in which case the gate shall NOT be closed for the duration of this timeframe. The Purchaser may install a temporary gate at their own expense elsewhere within the road system. Location and lock type(s) of the temporary gate must be approved in writing by the Contract Administrator prior to installation.

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

#### H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

A. A copy of the timber sale map, contract, and the FPA shall be present on site during active operations.

B. All trees marked with two blue bands on bole are non-tradeable leave trees. If it is determined that these pose a safety hazard and/or hinder operational feasibility, they



may be felled. The Contract Administrator must be notified before the trees are felled. These trees may also be used for tailholds and rigging with prior approval from the Contract Administrator. These trees may not be yarded.

C. All trees marked with two yellow bands on bole are very large snags. Use extreme caution when working around these trees. Purchaser may decide to leave these trees standing. However, if they are felled, then they may not be yarded.

D. Areas marked with double "Leave Tree Area" tags are non-tradeable leave tree areas. No activities are permitted in these areas, except for the use of tailholds and rigging. Also, if an individual tree within the area poses a safety hazard, it may be felled. The Contract Administrator must be notified before the trees are felled. These trees may not be yarded.

E. Purchaser must obtain prior written approval from the Contract Administrator for areas as to where to utilize untethered or tethered "6-wheeled rubber-tired skidders with over-the-tire tracks spanning both sets of rear tires", as well as tethered feller-bunchers/harvesters, prior to use. This includes approved areas to utilize the equipment as well as any additional mitigation measures set forth by the Contract Administrator. If ground disturbance is causing excessive damage, as determined by the Contract Administrator, the equipment will no longer be authorized.

F. All trees 60 inches Diameter at Breast Height (DBH) and greater shall not be felled unless for safety reasons. If trees 60 inches DBH or greater needs to be felled for safety reasons, trees will be left where felled.

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

#### H-190 Completion of Settings

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

#### H-220 Protection of Residual or Adjacent Trees

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

### Section C: Construction and Maintenance

#### C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 1/2/2024 are hereby made a part of this contract.

#### C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on the VZ-ML, VZ-38, VZ-3804, VZ-58, VZ-5807, VZ-5807-05, VZ-5807-06, VZ-59, VZ-5906, VZ-60, VZ-62. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on the MM-ML and MM-22. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-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-050 Cessation of Operations for Low Humidity

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

S-060 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

Slash or debris which enters Type 5 streams as a result of operations under this contract and which is identified by the Contract Administrator shall be removed and deposited in a stable position. Removal of slash or debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation.

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

If safe to do so, Purchaser shall take immediate action to contain and control all hazardous material spills. Purchaser shall ensure that enough quick response spill kits capable of absorbing 10 gallons of oil, coolant, solvent or contaminated water are available on site to quickly address potential spills from any piece of equipment at all times throughout active operations. If large quantities of bulk fuel/other hazardous materials are stored on site, Purchaser must be able to effectively control a container leak and contain &

recover a hazmat spill equal to the largest single on site storage container volume. (HAZWOPER reg. 29CFR 1910.120 (j) (1) (vii)).

d. Hazardous Material Release Reporting

Releases of oil or hazardous materials to the environment must be reported according to the State Department of Ecology (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.

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

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

D-041 Reserve Tree Excessive Damage

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

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

\_\_\_\_\_  
Jay Guthrie  
Northwest Region Manager

\_\_\_\_\_  
Print Name

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Address: \_\_\_\_\_

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

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally  
appeared \_\_\_\_\_

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

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

\_\_\_\_\_  
Notary Public in and for the State of

\_\_\_\_\_

My appointment expires \_\_\_\_\_

**Schedule Z**  
**Operations Outside of Sale Boundaries**

No operations are allowed to occur outside of the timber sale boundaries for Units 1, 2, and 3. This restriction includes all boundaries marked with timber sale tags to protect critical habitats and public resources. The restrictions include no felling of timber toward boundaries when the line may be crossed, no equipment entry, no tailholds or guylines and no corridors. These restrictions do not apply to adjacent road rights-of-way since these are considered within the timber sale boundaries.

There are several “No Entry Zones” adjacent to Unit 4. No operations are allowed to occur in these areas. The restrictions include no felling of timber toward boundaries when the line may be crossed, no equipment entry, no harvest related infrastructure such as skylines, guylines and tailholds, and no corridors. See timber sale maps for their locations.



**WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES**  
**FOREST EXCISE TAX ROAD SUMMARY SHEET**

**Region:**

**Timber Sale Name:**

**Application Number:**

**EXCISE TAX APPLICABLE ACTIVITIES**

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

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

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

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

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

**EXCISE TAX EXEMPT ACTIVITIES**

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

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

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

(Revised 9/18)



## PRE-CRUISE NARRATIVE

Sale Name: <b>Little Lilly</b>	Region: <b>Northwest</b>
Agreement #: <b>30-106363</b>	District: <b>Baker</b>
Contact Forester: <b>John Van Hollebeke</b> Phone / Location: <b>360-965-5359</b>	County(s): <b>Whatcom</b>
Alternate Contact: <b>Kyle Galloway</b> Phone / Location: <b>360-319-6720</b>	Other information:

Type of Sale: Lump Sum	Percent of Sale Area
Harvest System: Ground based	80%
Harvest System: Uphill Cable	20%

### UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination  (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	Sec 15 /T38N/R05E	01	2.9					2.9	GPS (Garmin) / ArcGIS
2A	Sec 10/T38N/R05E	01/ 03	2.0		0.3			1.7	GPS (Garmin) / ArcGIS
2B	Sec 10/T38N/R05E	01/ 03	3.8		0.2			3.6	GPS (Garmin) / ArcGIS
2C	Sec 10/T38N/R05E	01/ 03	17.7		0.9			16.8	GPS (Garmin) / ArcGIS
2D	Sec 10/T38N/R05E	01/ 03	2.2		0.2			2.0	GPS (Garmin) / ArcGIS
3	Sec 15 /T38N/R05E	01	15.2		1.3			13.9	GPS (Garmin) / ArcGIS
4	Sec 22 /T38N/R05E	01/ 10	50.0		4.8			45.2	GPS (Garmin) / ArcGIS
ROW1	Sec 15 /T38N/R05E	01	0.4			0.2		0.2	GPS (Garmin) / ArcGIS
ROW2	Sec 15 /T38N/R05E	01	0.6			0.3		0.3	GPS (Garmin) / ArcGIS
ROW3	Sec 15 /T38N/R05E	01	0.3					0.3	GPS (Garmin) / ArcGIS
ROW4	Sec 22 /T38N/R05E	01	2.3					2.3	GPS (Garmin) / ArcGIS
<b>TOTAL ACRES</b>			<b>97.4</b>		<b>7.7</b>	<b>0.5</b>		<b>89.2</b>	

**HARVEST PLAN AND SPECIAL CONDITIONS:**

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Harvest all timber bounded by white "timber sale boundary" tags and the VZ-60 road; except for forest products bounded by yellow leave tree tags, and trees marked with blue paint on the bole and root collar.	N/A	Scattered Leave Trees: 23 Clumped Leave Trees: 0 Total Leave Trees: 23
2A	Harvest all timber bounded by white "timber sale boundary" tags and the VZ-ML and VZ-59 roads; except for forest products bounded by yellow leave tree tags, and trees marked with blue paint on the bole and root collar.	N/A	Scattered Leave Trees: 0 Clumped Leave Trees: 32 Total Leave Trees: 32
2B	Harvest all timber bounded by white "timber sale boundary" tags and the VZ-59 road; except for forest products bounded by yellow leave tree tags, and trees marked with blue paint on the bole and root collar.	N/A	Scattered Leave Trees: 0 Clumped Leave Trees: 16 Total Leave Trees: 16
2C	Harvest all timber bounded by white "timber sale boundary" tags and the VZ-ML road; except for forest products bounded by yellow leave tree tags, and trees marked with blue paint on the bole and root collar.	N/A	Scattered Leave Trees: 2 Clumped Leave Trees: 127 Total Leave Trees: 129
2D	Harvest all timber bounded by white "timber sale boundary" tags and the VZ-ML road; except for forest products bounded by yellow leave tree tags, and trees marked with blue paint on the bole and root collar.	N/A	Scattered Leave Trees: 4 Clumped Leave Trees: 25 Total Leave Trees: 29
3	Harvest all timber bounded by white "timber sale boundary" tags and the VZ-59 road; except for forest products bounded by yellow leave tree tags, and trees marked with blue paint on the bole and root collar.	N/A	Scattered Leave Trees: 4 Clumped Leave Trees: 118 Total Leave Trees: 122
4	Harvest all timber bounded by white "timber sale boundary" tags and the adjacent young stand to the north; except for forest products bounded by yellow leave tree tags, and trees marked with blue paint on the bole and root collar.	N/A	Scattered Leave Trees: 23 Clumped Leave Trees: 377 Total Leave Trees: 400
All ROW Units	Harvest all timber bounded by orange "right-of-way" tags.	N/A	

**OTHER PRE-CRUISE INFORMATION:**

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF 87MBF	See driving map. All gates are accessible with an F1-3 key.	See attached driving and traverse maps
2A	DF, WH, RC 90MBF	Same as above	Same as above
2B	DF, WH, RC 171MBF	Same as above	Same as above
2C	DF, WH, RC 672MBF	Same as above	Same as above
2D	DF, WH, RC 90MBF	Same as above	Same as above
3	DF, WH, 625MBF	Same as above	Same as above
4	DF, WH, RC, RA 1,655MBF	Same as above	Same as above
ROW1	DF 8MBF	Same as above	Same as above
ROW2	RA 10MBF	Same as above	Same as above
ROW3	DF 5MBF	Same as above	Same as above
ROW4	DF 80MBF	Same as above	Same as above
TOTAL MBF	<b>3,493MBF</b>		

**REMARKS:**

The stand type in Unit 1 is a 60-70 year old Douglas-fir plantation with wide spacing as the stand received a late rotation thinning maybe 20 years ago.

The stand type in Unit 2 is an 90-100 year old mixed conifer stand, dominated by Douglas-fir.

The stand type in Unit 3 is an 100-110 year old high quality Douglas-fir stand.

The stand types in Unit 4 vary. The roughly 10 acre area up on the ridges can be described as a ~150 year old scrubby/stunted mixed conifer stand, while another 10 acres down on the lower flats can be described as a 75-85 year old mixed conifer stand with very low quality and a high density of red alder. The remaining 30 acres in the mid-elevations is a ~150 year old mixed conifer stand dominated by large higher quality Douglas-fir.

ROW units are minimal, may be able to cruise 100%. However ROW4 is sizeable and has similar to

characteristics to Unit 4, as well as some ~35 year old plantation DF.

GPS points are marked with blue and red ribbon, and a triangular metal tag.

**Prepared By: John Van Hollebeke**  
**Date: 12/19/2023**

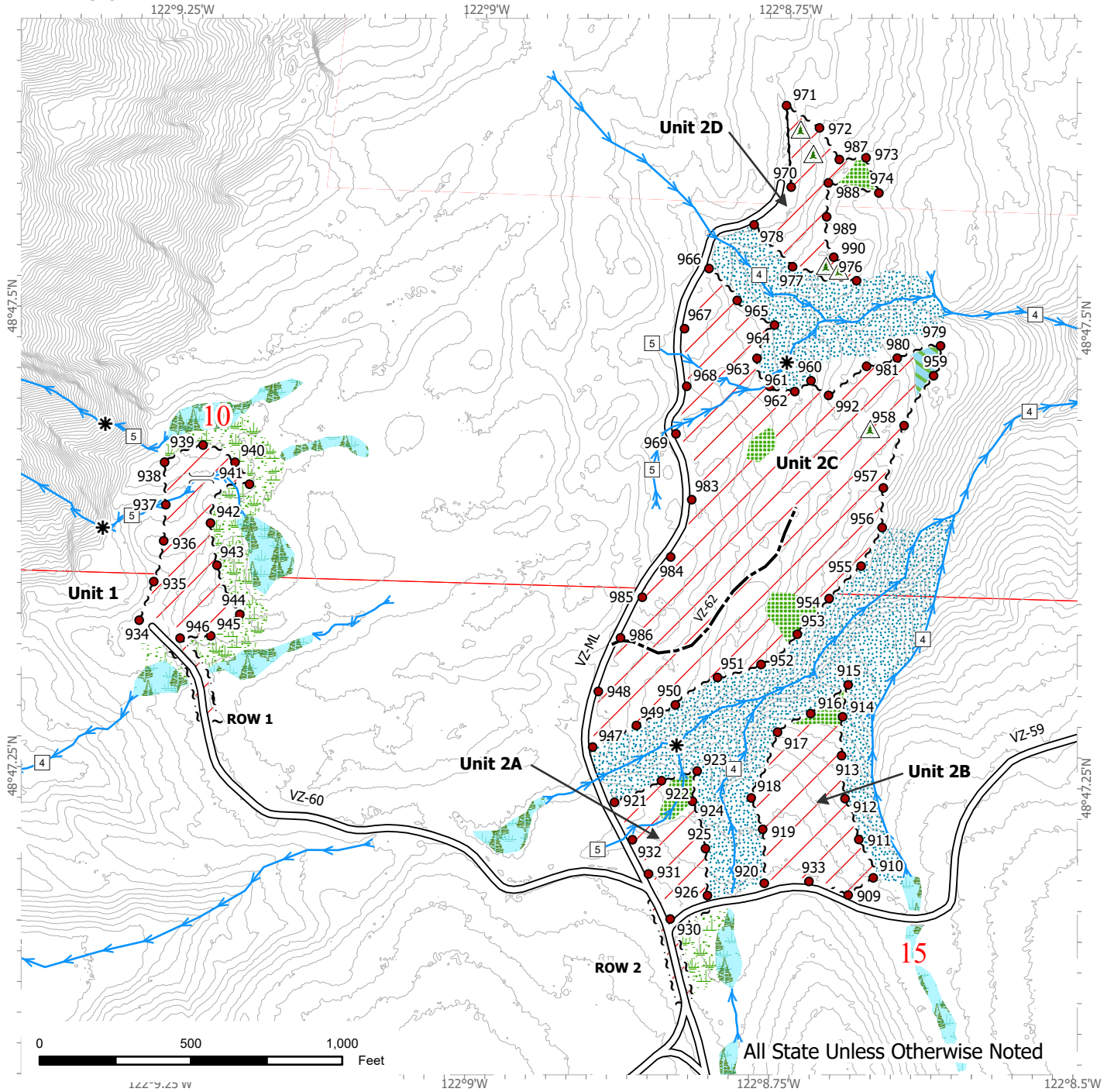
**Title: Forester**

**CC:**

# TRAVERSE MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT#:** None  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120



All State Unless Otherwise Noted

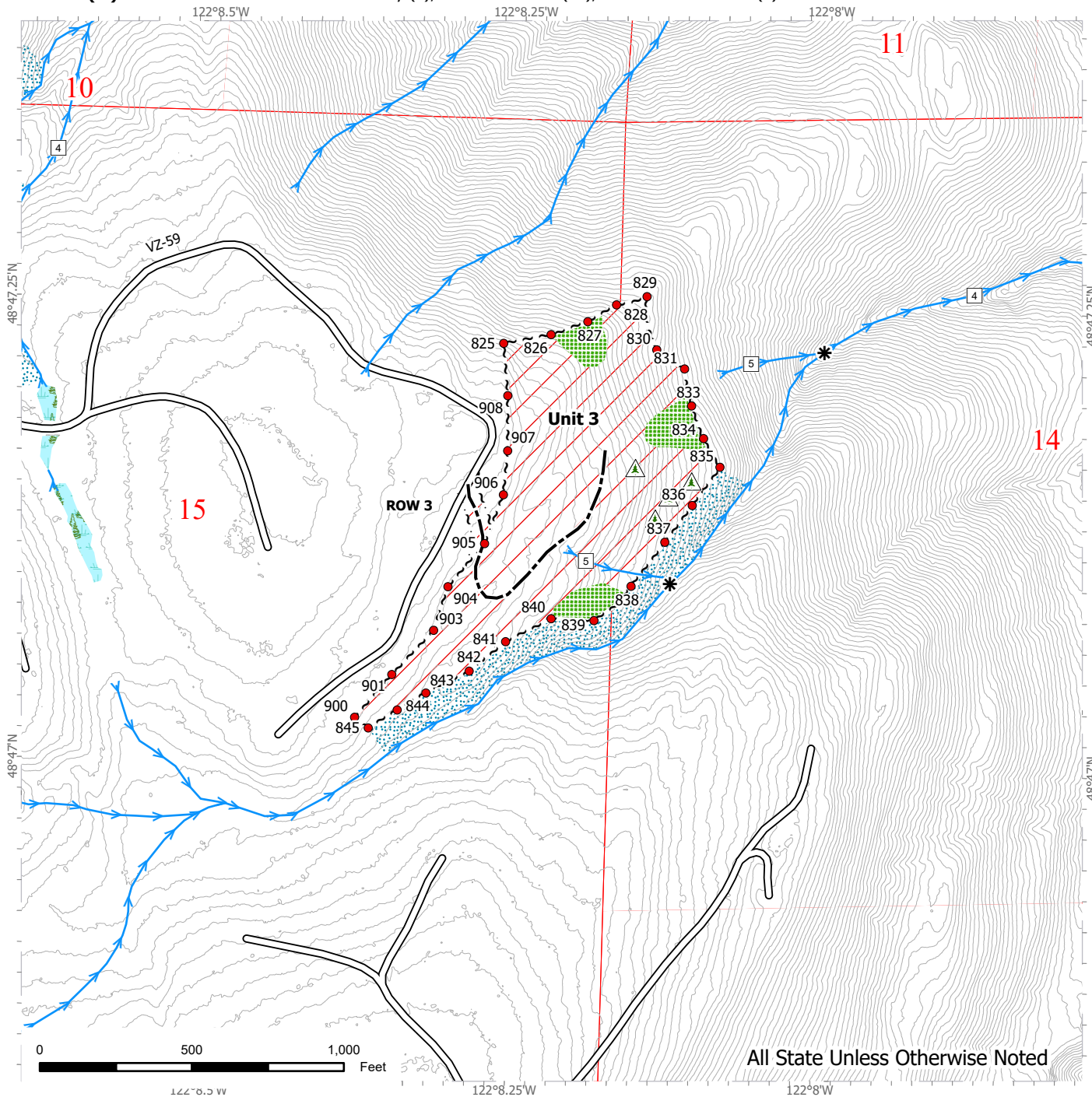
Sale Area	Sale Boundary Tags	Streams
Leave Tree Area	Right of Way Tags	Stream Type
Non-Tradeable Leave Clump	Timber Type Change	Stream Break
Forested Wetland	Existing Roads	Non-Tradeable Leave Trees
Wetland Mgt Zone	Optional Construction	Designated Crossing
Riparian Mgt Zone	GPS Points	Landing - Proposed
		Rock Pit



# TRAVERSE MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT #:** None  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120

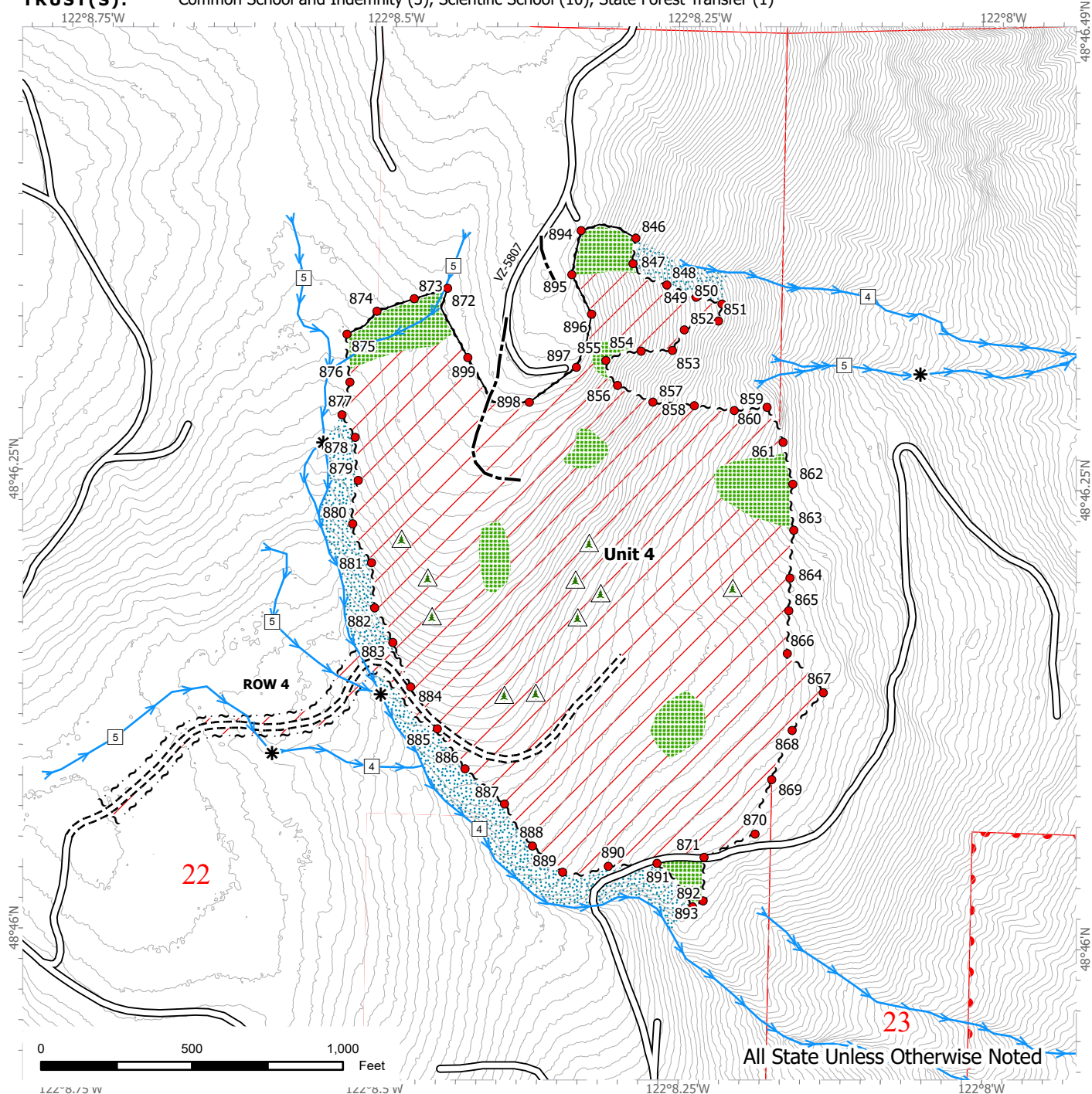


	Sale Area		Sale Boundary Tags		Streams
	Leave Tree Area		Right of Way Tags		Stream Type
	Non-Tradeable Leave Clump		Existing Roads		Stream Break
	Forested Wetland		Optional Construction		Non-Tradeable Leave Trees
	Wetland Mgt Zone				Traverse Point
	Riparian Mgt Zone				

# TRAVERSE MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT#:** None  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120



Sale Area	Sale Boundary Tags	Streams
Leave Tree Area	Right of Way Tags	Stream Type
Non-Tradeable Leave Clump	Timber Type Change	Stream Break
Forested Wetland	Existing Roads	Non-Tradeable Leave Trees
Wetland Mgt Zone	Required Construction	Traverse Point
Riparian Mgt Zone	Optional Construction	



## Timber Sale Cruise Report Little Lilly - NW

**Sale Name:** LITTLE LILLY

**Sale Type:** LUMP SUM

**Region:** NORTHWEST

**District:** BAKER

**Lead Cruiser:** Matt Llobet

### Cruise Narrative:

All timber was graded in variable log lengths with the Scaling Bureaus Westside/Northwest log rules. The utility wood was given a board ft. volume. For this cruise different basal area factors were selected based on stoking levels, tree sizes, topography, and understory conditions. The smallest merchantable tree cruised throughout the sale had a DBH of 7.0 inches and 5.0 inches at 16 feet. My plots were generated in GIS and located in the field using Avenza Maps. Trees were segmented into preferred west-side log lengths while taking into account location of defect within each tree cruised.

- Conifer log lengths were cruised in 2 foot multiples - maximizing 32-40 ft. lengths.
- Hardwood log lengths were cruised in 10 foot multiples - no longer than 30 feet.

Observed throughout all four units was mild to flat topography, making for productive operator ground. Little Lilly has a dominant Douglas fir component (77%), with a scattered component of western hemlock (19%), western red cedar, and hardwoods. Douglas fir logs meeting HQ grades were cruised throughout the sale, amounting to 714 MBF. Also observed throughout the sale was 300 MBF of pole quality Douglas fir. The poles observed throughout the sale were primarily second cut pieces, with a scattered component of naturals. Defect observed includes: forked or multiple tops, spike knots, root-rot pockets, and sweep.

HQA - Logs meeting the following criteria:

Surface characteristics for a high quality A sort will have sound tight knots not to exceed 1.5" in diameter, numbering not more than an average of one knot per foot of log length. May include logs with not more than two larger knots. Knots and knot indicators .5" in diameter and smaller shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log.

HQB - Logs meeting the following criteria:

Surface characteristics for a B sort will have sound tight knots not to exceed 1.5" in diameter. May include logs with not more than two larger knots up to 2" in diameter. Logs will have a growth ring count of 6 or more rings per inch in the outer third to end of the Log. (Min dia 8".)

POLE - Logs meeting pole specifications.

### Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade						
				All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	21.2	8.0		3,070	51	216	2,088	625	60	31
WH	15.8			770			298	420	49	2
RC	16.9			108				87	20	
RA	15.4			57			23	13	19	3
ALL	19.1	8.0		4,005	51	216	2,409	1,145	148	36



**Timber Sale Notice Weight (tons)**

Sp	Tons by Grade						
	All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	19,882	274	1,262	12,753	4,883	547	163
WH	6,535			2,302	3,739	468	26
RC	1,014				817	197	
RA	462			153	108	173	27
ALL	27,894	274	1,262	15,209	9,548	1,385	217

**Timber Sale Overall Cruise Statistics**

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
258.7	5.3	170.6	2.2	44,900	5.7

**Timber Sale Unit Cruise Design**

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
LITTLE LILLY U1	B2: VR, 2 BAF (62.5, 40 for some species) Measure All, Sighting Ht = 4.5 ft	2.9	2.9	2	2	0
LITTLE LILLY U2	B2C: VR, 2 BAF (62.5, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	24.1	25.7	19	19	0
LITTLE LILLY U3	B2: VR, 2 BAF (62.5, 40 for some species) Measure All, Sighting Ht = 4.5 ft	13.9	15.2	10	10	1
LITTLE LILLY U4	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	45.2	50.0	27	27	0
LITTLE LILLY ROW	FX: FR plots (20 tree / acre expansion)	3.1	3.7	9	9	0
All		89.2	97.4	67	67	1

**Timber Sale Log Grade x Sort Summary**

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	16.8	38	16,300	16,041	1.6	8,611.8	1,430.9
DF	LIVE	2 SAW	HQ-A	14.3	40	845	845	0.0	515.0	75.3
DF	LIVE	2 SAW	HQ-B	16.6	38	4,215	4,175	1.0	2,251.3	372.4
DF	LIVE	2 SAW	Pole	14.6	40	2,348	2,348	0.0	1,374.9	209.5
DF	LIVE	3 PEELER	Domestic	26.9	40	569	569	0.0	273.5	50.8
DF	LIVE	3 SAW	Domestic	8.6	35	6,065	6,041	0.4	4,235.2	538.8
DF	LIVE	3 SAW	Pole	9.8	36	963	963	0.0	648.2	85.9

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	4 SAW	Domestic	6.4	26	674	673	0.1	547.2	60.0
DF	LIVE	CULL	Cull	23.2	12	162	0	100.0	0.0	0.0
DF	LIVE	SPECIAL MILL	HQ-A	19.8	38	2,432	2,420	0.5	1,261.8	215.9
DF	LIVE	UTILITY	Pulp	18.6	20	348	348	0.0	162.9	31.0
RA	LIVE	2 SAW	Domestic	14.3	28	276	258	6.5	153.3	23.0
RA	LIVE	3 SAW	Domestic	10.9	30	157	145	7.7	108.5	13.0
RA	LIVE	4 SAW	Domestic	8.7	28	224	208	7.0	173.1	18.6
RA	LIVE	CULL	Cull	5.4	24	20	0	100.0	0.0	0.0
RA	LIVE	UTILITY	Pulp	6.6	23	33	33	0.0	27.5	2.9
RC	LIVE	3 SAW	Domestic	9.1	36	745	735	1.4	601.5	65.5
RC	LIVE	3 SAW	Pole	9.1	40	245	245	0.0	215.4	21.8
RC	LIVE	4 SAW	Domestic	5.7	29	197	196	0.3	177.3	17.5
RC	LIVE	4 SAW	Pole	6.9	21	29	29	0.0	20.0	2.6
RC	LIVE	CULL	Cull	20.8	17	153	0	100.0	0.0	0.0
WH	LIVE	2 SAW	Domestic	14.8	39	3,388	3,343	1.3	2,302.4	298.2
WH	LIVE	3 SAW	Domestic	8.9	35	4,766	4,712	1.1	3,738.7	420.3
WH	LIVE	4 SAW	Domestic	5.6	26	549	549	0.0	467.6	49.0
WH	LIVE	CULL	Cull	17.1	10	54	0	100.0	0.0	0.0
WH	LIVE	UTILITY	Pulp	5.1	28	23	23	0.0	26.4	2.1

### Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 7	LIVE	Pulp	5.5	16	1	0.0	1.0	0.1
DF	5 - 7	LIVE	Domestic	6.6	31	2,021	0.5	1,527.5	180.3
DF	8 - 11	LIVE	Pole	9.6	36	890	0.0	610.9	79.4
DF	8 - 11	LIVE	Domestic	9.7	34	4,692	0.3	3,254.8	418.6
DF	12 - 15	LIVE	Domestic	13.6	37	5,557	0.4	3,387.3	495.7
DF	12 - 15	LIVE	HQ-B	13.7	38	870	2.8	550.2	77.6
DF	12 - 15	LIVE	HQ-A	13.8	40	698	0.0	437.4	62.3
DF	12 - 15	LIVE	Pole	14.2	40	1,886	0.0	1,122.8	168.2
DF	12 - 15	LIVE	Pulp	15.0	21	149	0.0	78.5	13.3
DF	16 - 19	LIVE	Pole	16.6	40	535	0.0	289.4	47.7
DF	16 - 19	LIVE	HQ-B	17.6	40	2,184	0.7	1,159.0	194.8
DF	16 - 19	LIVE	Domestic	17.8	39	4,789	0.9	2,475.5	427.2
DF	16 - 19	LIVE	HQ-A	18.0	38	1,113	0.0	598.4	99.3
DF	16 - 19	LIVE	Cull	19.5	14	0	100.0	0.0	0.0
DF	20+	LIVE	HQ-A	21.5	38	1,453	0.8	741.0	129.6

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	20+	LIVE	HQ-B	22.9	38	1,121	0.0	542.1	100.0
DF	20+	LIVE	Domestic	23.7	40	6,264	3.0	3,022.5	558.8
DF	20+	LIVE	Pulp	23.8	20	198	0.0	83.5	17.6
DF	20+	LIVE	Cull	24.1	11	0	100.0	0.0	0.0
RA	5+	LIVE	Cull	5.4	24	0	100.0	0.0	0.0
RA	5+	LIVE	Pulp	6.8	25	33	0.0	27.5	2.9
RA	5+	LIVE	Domestic	9.6	29	612	7.0	434.9	54.6
RC	5+	LIVE	Domestic	7.5	33	931	1.2	778.9	83.1
RC	5+	LIVE	Pole	8.8	34	274	0.0	235.4	24.5
RC	5+	LIVE	Cull	20.8	17	0	100.0	0.0	0.0
WH	5 - 7	LIVE	Pulp	5.1	28	23	0.0	26.4	2.1
WH	5 - 7	LIVE	Domestic	6.2	29	1,466	0.1	1,250.7	130.7
WH	8 - 11	LIVE	Domestic	9.8	35	3,795	1.3	2,955.6	338.5
WH	12 - 15	LIVE	Domestic	13.6	39	1,721	0.9	1,258.0	153.5
WH	16 - 19	LIVE	Cull	17.1	10	0	100.0	0.0	0.0
WH	16 - 19	LIVE	Domestic	17.1	40	1,493	1.2	964.3	133.2
WH	20+	LIVE	Domestic	21.6	40	129	7.9	80.1	11.5

## Cruise Unit Report LITTLE LILLY U1

### Unit Sale Notice Volume (MBF): LITTLE LILLY U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	19.8			133	90	43	1
ALL	19.8			133	90	43	1

### Unit Cruise Design: LITTLE LILLY U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (62.5, 40 for some species) Measure All, Sighting Ht = 4.5 ft	2.9	2.9	2	2	0

### Unit Cruise Summary: LITTLE LILLY U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	9	9	4.5	0
ALL	9	9	4.5	0

### Unit Cruise Statistics: LITTLE LILLY U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	281.3	15.7	11.1	163.3	9.1	3.0	45,915	18.2	11.5
ALL	281.3	15.7	11.1	163.3	9.1	3.0	45,915	18.2	11.5

### Unit Summary: LITTLE LILLY U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	19.8	90	114	46,003	45,915	0.2	131.5	281.3	63.2	133.2
ALL	LIVE	CUT	9	ALL	19.8	90	114	46,003	45,915	0.2	131.5	281.3	63.2	133.2
ALL	ALL	CUT	9	ALL	19.8	90	114	46,003	45,915	0.2	131.5	281.3	63.2	133.2

## Cruise Unit Report LITTLE LILLY U2

### Unit Sale Notice Volume (MBF): LITTLE LILLY U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade						
				All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	23.9			1,151	13	45	896	183	8	6
WH	15.6			223			82	126	15	
RC	20.8			16				14	2	
RA	17.7			12			5	4	2	2
ALL	20.9			1,403	13	45	983	327	27	7

### Unit Cruise Design: LITTLE LILLY U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (62.5, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	24.1	25.7	19	19	0

### Unit Cruise Summary: LITTLE LILLY U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	66	66	3.5	0
WH	19	19	1.0	0
RC	3	3	0.2	0
RA	2	2	0.1	0
ALL	90	90	4.7	0

### Unit Cruise Statistics: LITTLE LILLY U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	217.1	61.7	14.2	219.9	23.6	2.9	47,747	66.1	14.5
WH	62.5	110.6	25.4	148.3	28.8	6.6	9,270	114.3	26.2
RC	6.3	237.3	54.4	106.2	10.0	5.8	670	237.5	54.7
RA	4.2	435.9	100.0	120.7	15.3	10.8	508	436.2	100.6
ALL	290.1	39.0	8.9	200.6	30.1	3.2	58,196	49.2	9.5

**Unit Summary: LITTLE LILLY U2**

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	66	ALL	23.9	102	132	48,809	47,747	2.2	69.7	217.1	44.4	1,150.7
RA	LIVE	CUT	2	ALL	17.7	75	92	536	508	5.2	2.5	4.2	1.0	12.2
RC	LIVE	CUT	3	ALL	20.8	79	104	670	670	0.0	2.7	6.3	1.4	16.2
WH	LIVE	CUT	19	ALL	15.6	73	94	9,501	9,270	2.4	47.1	62.5	15.8	223.4
ALL	LIVE	CUT	90	ALL	20.9	90	116	59,516	58,196	2.2	122.0	290.1	62.6	1,402.5
ALL	ALL	CUT	90	ALL	20.9	90	116	59,516	58,196	2.2	122.0	290.1	62.6	1,402.5

## Cruise Unit Report LITTLE LILLY U3

### Unit Sale Notice Volume (MBF): LITTLE LILLY U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade					
				All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	20.0			796	22	529	216	22	8
WH	14.1			33		13	19	1	
ALL	19.4			829	22	541	235	24	8

### Unit Cruise Design: LITTLE LILLY U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (62.5, 40 for some species) Measure All, Sighting Ht = 4.5 ft	13.9	15.2	10	10	1

### Unit Cruise Summary: LITTLE LILLY U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	48	48	4.8	0
WH	3	3	0.3	0
ALL	51	51	5.1	0

### Unit Cruise Statistics: LITTLE LILLY U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	300.0	48.9	15.5	190.8	23.7	3.4	57,244	54.3	15.8
WH	18.8	316.2	100.0	127.2	42.0	24.2	2,384	319.0	102.9
ALL	318.8	44.8	14.2	187.1	25.4	3.6	59,628	51.5	14.6

### Unit Summary: LITTLE LILLY U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	48	ALL	20.0	90	117	57,459	57,244	0.4	137.5	300.0	67.1	795.7
WH	LIVE	CUT	3	ALL	14.1	60	73	2,384	2,384	0.0	17.3	18.8	5.0	33.1
ALL	LIVE	CUT	51	ALL	19.4	87	112	59,843	59,628	0.4	154.8	318.8	72.1	828.8
ALL	ALL	CUT	51	ALL	19.4	87	112	59,843	59,628	0.4	154.8	318.8	72.1	828.8

## Cruise Unit Report LITTLE LILLY U4

### Unit Sale Notice Volume (MBF): LITTLE LILLY U4

Sp	DBH	Rings/In	Age	MBF Volume by Grade						
				All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	19.2	8.0		931	30	141	547	172	25	18
WH	16.1			508			203	271	31	2
RC	16.2			91				73	18	
RA	15.0			42			18	8	15	1
ALL	17.3	8.0		1,573	30	141	768	523	90	21

### Unit Cruise Design: LITTLE LILLY U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	45.2	50.0	27	27	0

### Unit Cruise Summary: LITTLE LILLY U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	54	54	2.0	1
WH	40	40	1.5	0
RC	20	20	0.7	0
RA	7	7	0.3	0
ALL	121	121	4.5	1

### Unit Cruise Statistics: LITTLE LILLY U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	108.9	76.0	14.6	189.2	37.5	5.1	20,601	84.7	15.5
WH	80.7	82.4	15.9	139.4	21.1	3.3	11,247	85.0	16.2
RC	29.6	138.0	26.6	67.9	20.4	4.6	2,011	139.5	27.0
RA	10.4	253.0	48.7	89.8	34.8	13.1	932	255.4	50.4
ALL	229.5	41.2	7.9	151.6	44.9	4.1	34,791	60.9	8.9



**Unit Summary: LITTLE LILLY U4**

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	54	ALL	19.2	75	95	20,931	20,601	1.6	54.2	108.9	24.8	931.2
RA	LIVE	CUT	7	ALL	15.0	59	75	1,046	932	10.9	8.5	10.4	2.7	42.1
RC	LIVE	CUT	20	ALL	16.2	55	70	2,336	2,011	13.9	20.7	29.6	7.4	90.9
WH	LIVE	CUT	40	ALL	16.1	71	89	11,425	11,247	1.6	57.0	80.7	20.1	508.3
ALL	LIVE	CUT	121	ALL	17.3	70	88	35,738	34,791	2.7	140.4	229.5	55.0	1,572.5
ALL	ALL	CUT	121	ALL	17.3	70	88	35,738	34,791	2.7	140.4	229.5	55.0	1,572.5

## Cruise Unit Report LITTLE LILLY ROW

### Unit Sale Notice Volume (MBF): LITTLE LILLY ROW

Sp	DBH	Rings/In	Age	MBF Volume by Grade						
				All	Peeler	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	18.6			60	9	8	28	11	4	0
WH	13.0			5				4	1	
RA	11.7			3				1	2	
RC	14.2			0				0		
ALL	16.9			68	9	8	28	17	6	0

### Unit Cruise Design: LITTLE LILLY ROW

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
FX: FR plots (20 tree / acre expansion)	3.1	3.6	9	9	0

### Unit Cruise Summary: LITTLE LILLY ROW

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	29	29	3.2	0
WH	7	7	0.8	0
RA	4	6	0.7	0
RC	1	1	0.1	0
ALL	41	43	4.8	0

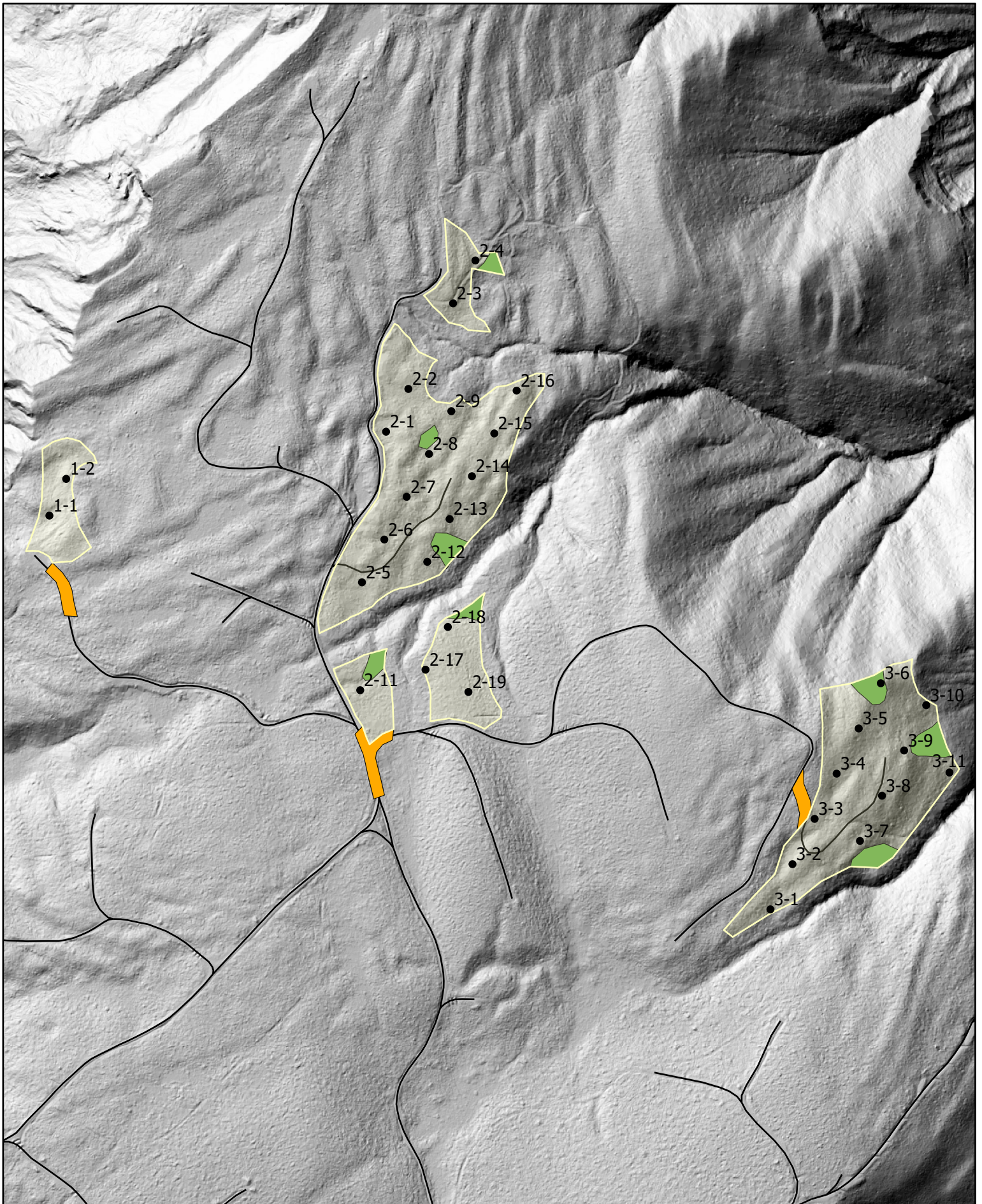
### Unit Cruise Statistics: LITTLE LILLY ROW

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	121.9	89.3	29.8	158.1	31.9	5.9	19,276	94.9	30.4
WH	14.4	123.2	41.1	104.4	31.0	11.7	1,507	127.0	42.7
RA	10.0	214.3	71.4	100.9	26.5	13.3	1,009	216.0	72.7
RC	2.4	300.0	100.0	59.1	0.0	0.0	144	300.0	100.0
ALL	148.8	70.9	23.6	147.4	31.8	5.0	21,936	77.7	24.1

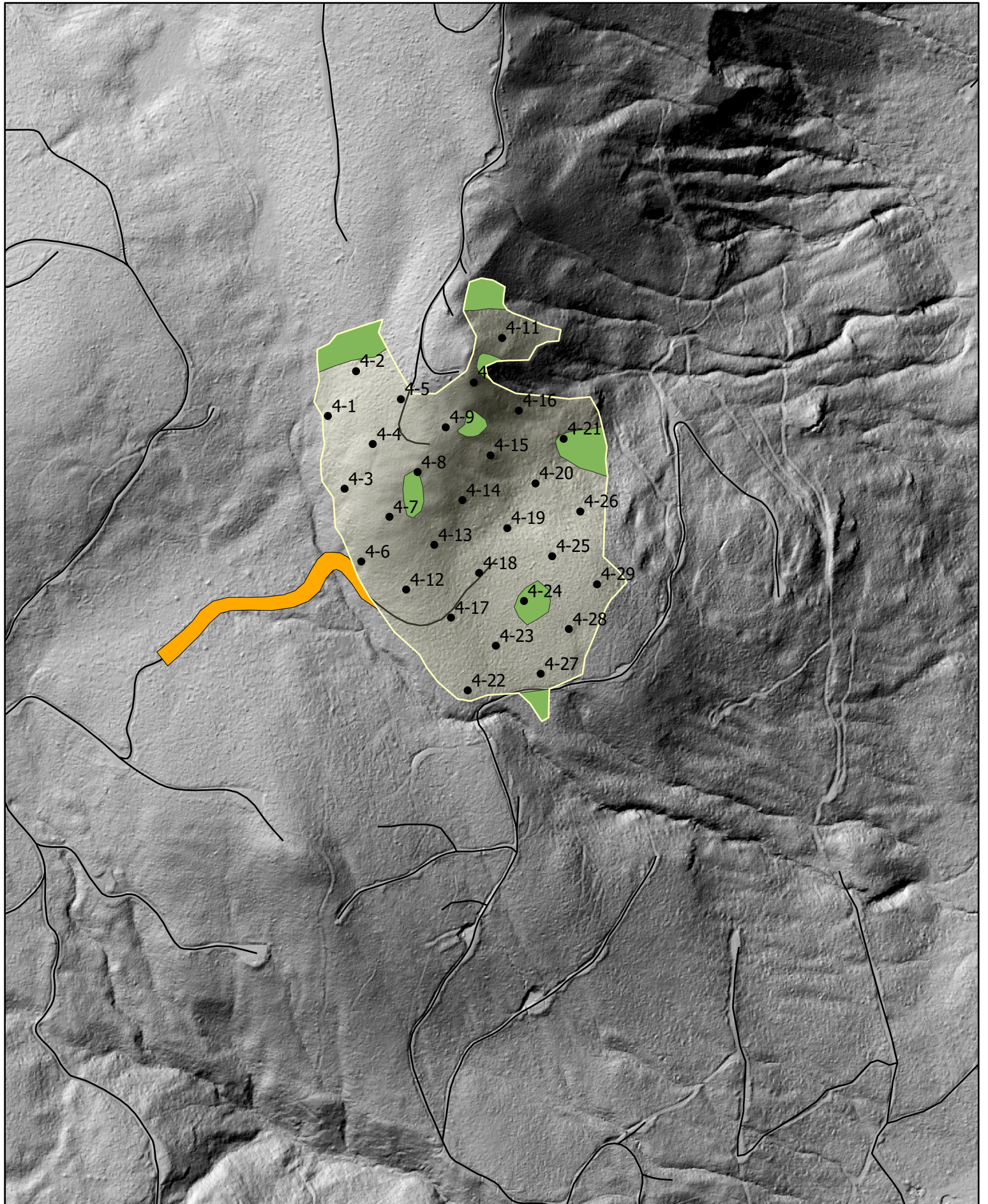
**Unit Summary: LITTLE LILLY ROW**

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	29	ALL	18.6	67	89	19,487	19,276	1.1	64.6	121.9	28.3	59.8
RA	LIVE	CUT	4	ALL	11.7	57	69	1,009	1,009	0.0	13.4	10.0	2.9	3.1
RC	LIVE	CUT	1	ALL	14.2	50	62	144	144	0.0	2.2	2.4	0.6	0.4
WH	LIVE	CUT	7	ALL	13.0	55	70	1,507	1,507	0.0	15.7	14.4	4.0	4.7
ALL	LIVE	CUT	41	ALL	16.9	63	82	22,147	21,936	1.0	95.9	148.8	35.8	68.0
ALL	ALL	CUT	41	ALL	16.9	63	82	22,147	21,936	1.0	95.9	148.8	35.8	68.0

# Little Lilly Sample Point Map Units 1-3



# Little Lilly Sample Point Map Unit 4





# Forest Practices Application/Notification Notice of Decision

FPA/N No: 2819433

Effective Date: 7/16/2024

Expiration Date: 7/16/2027

Shut Down Zone: 656/658

EARR Tax Credit:  Eligible  Non-eligible

Reference: Little Lilly

### 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

- Class II     Class III     Class IVG     Class IVS

### Number of Years Granted on Multi-Year Request

- 4 years     5 years

### Conditions on Approval/Reasons for Disapproval

#### Notes:

- Note: Apply grass seed and mulch to exposed soils adjacent to stream crossings immediately after construction. See WAC 222-24-030 (4).

Issued By: Megan Pike

Region: Northwest Region

Title: Resource Protection Forester

Date: 7/16/2024

Copies to:     Landowner, Timber Owner, and Operator

Issued in person:  LO  TO  OP    By: *Alfa Schmidt*    Date: 7/19/2024

**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](http://www.wa.gov/RCW76.09.205). 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:**

<b>Pollution Control Hearings Board</b>	<b>Office of the Attorney General Natural Resources Division</b>	<b>Department Of Natural Resources Northwest Region</b>
<u>Physical Address</u> 1111 Israel Road SW Suite 301 Tumwater, WA 98501  <u>Mailing address</u> Post Office Box 40903 Olympia, WA 98504-0903	<u>Physical Address</u> 1125 Washington Street, SE Olympia, WA 98504  <u>Mailing Address</u> Post Office Box 40100 Olympia, WA 98504-0100	<u>Physical Address</u> 919 North Township Street Sedro-Woolley, WA 98284  <u>Mailing Address</u> 919 North Township Street Sedro-Woolley, WA 98284

Information regarding the Pollution Control Hearings Board can be found at: <https://eluh0.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 Declaration of Mailing**

I Choose an item., caused the Notice of Decision for FPA/N No. \_\_\_\_\_ To be placed in the United States mail at **Sedro-Woolley, WA**; postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

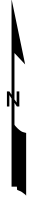
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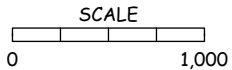
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# ROAD PLAN AND SPECIFICATIONS #30-104692 LITTLE LILLY



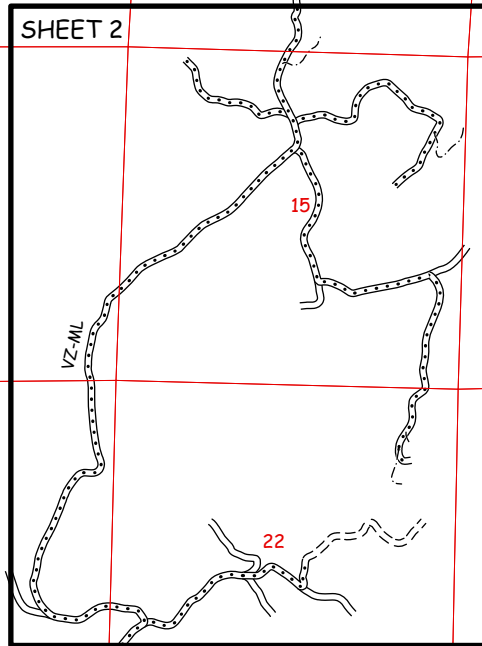
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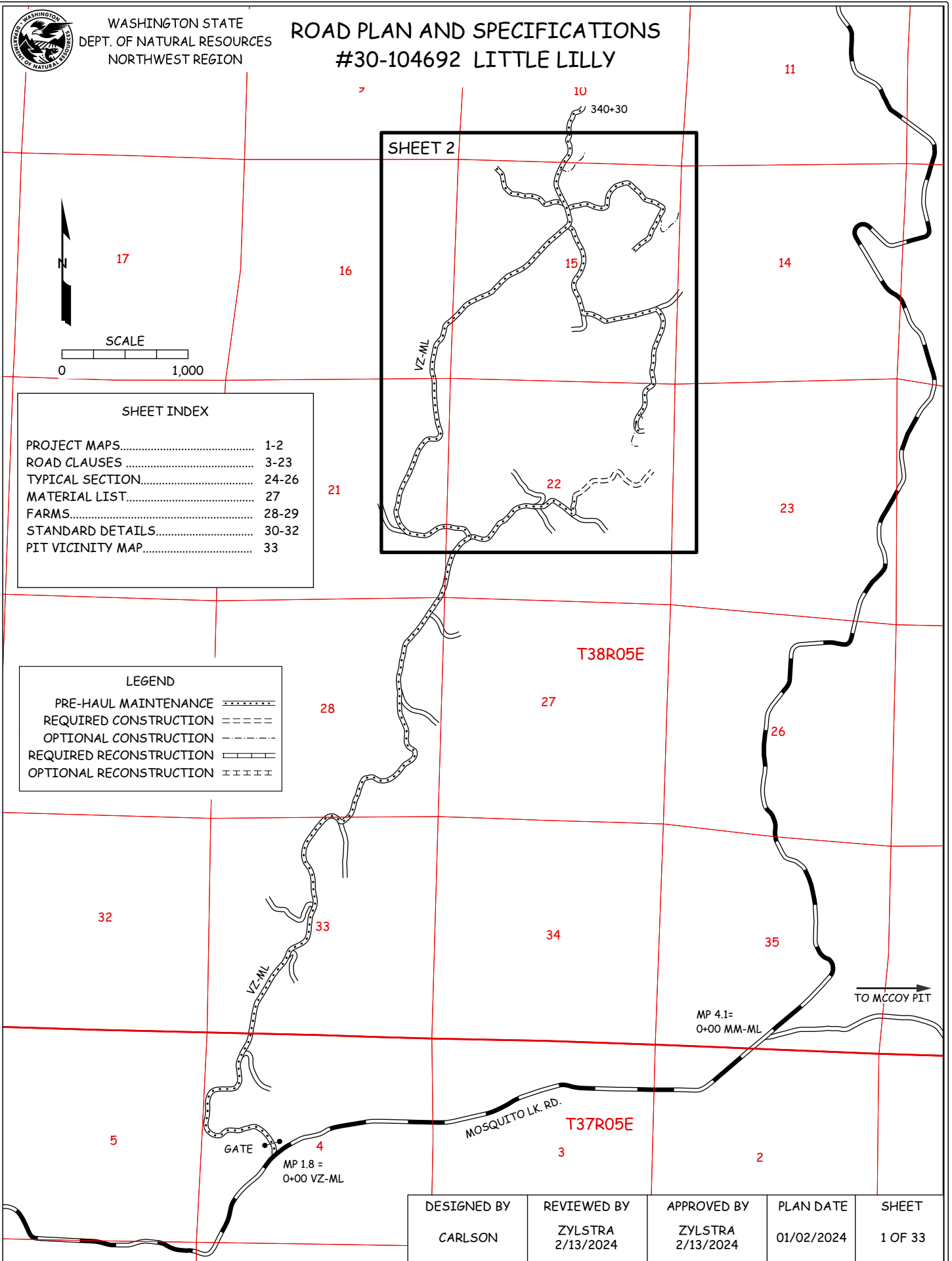
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### SHEET 2



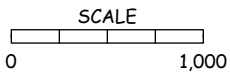
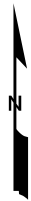
### LEGEND

PRE-HAUL MAINTENANCE	=====
REQUIRED CONSTRUCTION	=====
OPTIONAL CONSTRUCTION	-----
REQUIRED RECONSTRUCTION	=====
OPTIONAL RECONSTRUCTION	=====

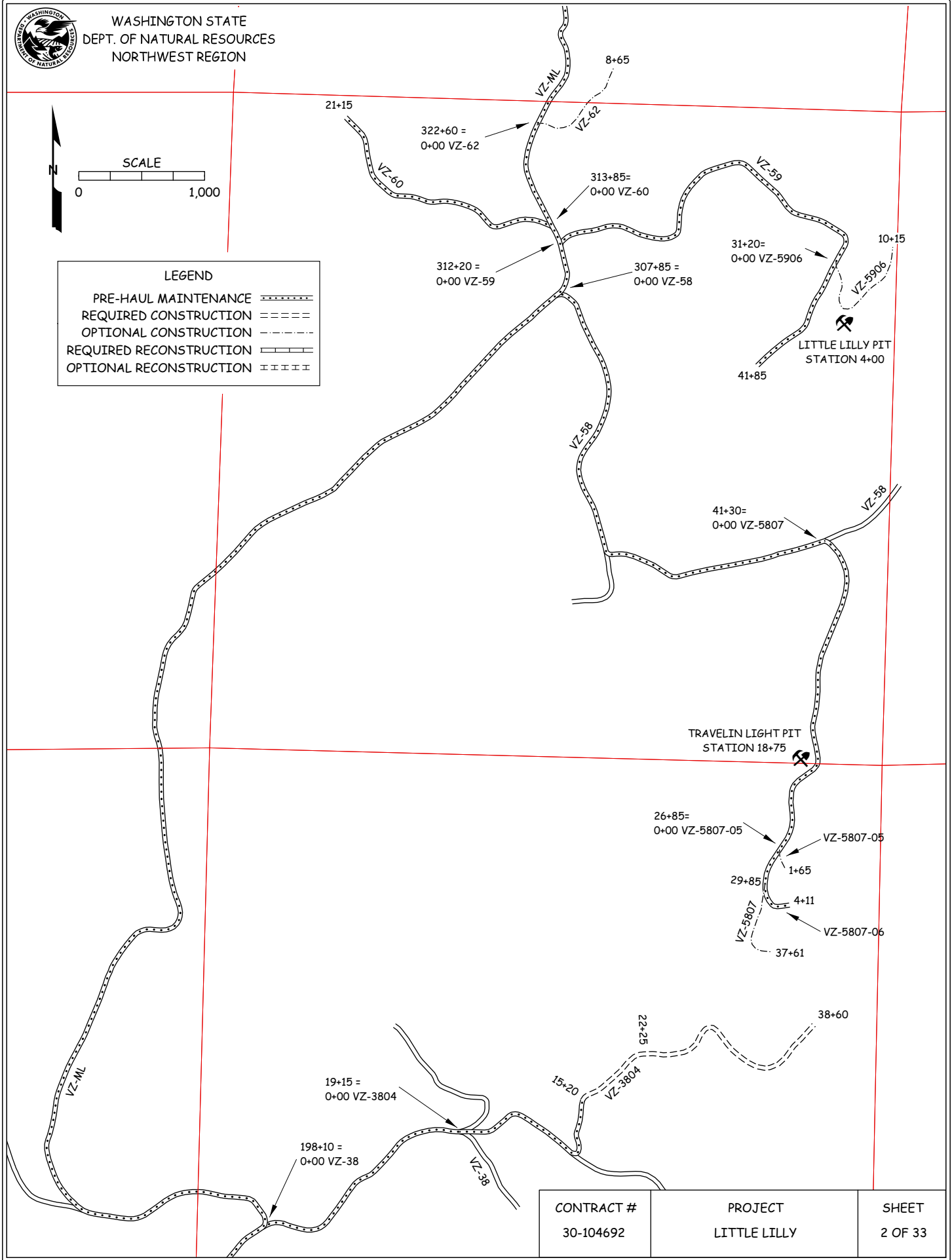


DESIGNED BY	REVIEWED BY	APPROVED BY	PLAN DATE	SHEET
CARLSON	ZYLSTRA 2/13/2024	ZYLSTRA 2/13/2024	01/02/2024	1 OF 33





LEGEND	
PRE-HAUL MAINTENANCE	=====
REQUIRED CONSTRUCTION	-----
OPTIONAL CONSTRUCTION	-----
REQUIRED RECONSTRUCTION	=====
OPTIONAL RECONSTRUCTION	=====



CONTRACT # 30-104692	PROJECT LITTLE LILLY	SHEET 2 OF 33
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STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

LITTLE LILLY TIMBER SALE ROAD PLAN  
WHATCOM COUNTY  
BAKER DISTRICT  
NORTHWEST REGION

AGREEMENT NO.: 30-106363

STAFF ENGINEER: CARLSON

DATE: JANUARY 2, 2024

SECTION 0 – SCOPE OF PROJECT

**0-1 ROAD PLAN SCOPE**

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

**0-2 REQUIRED ROADS**

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
VZ-ML	0+00 to 340+30	Pre-haul Maintenance
VZ-38	0+00 to 19+15	Pre-haul Maintenance
VZ-3804	0+00 to 15+20	Pre-haul Maintenance
VZ-3804*	15+20 to 38+60	Construction
VZ-58	0+00 to 41+30	Pre-haul Maintenance
VZ-5807	0+00 to 29+85	Pre-haul Maintenance
VZ-5807-06	0+00 to 4+11	Pre-haul Maintenance
VZ-59	0+00 to 41+85	Pre-haul Maintenance
VZ-60	0+00 to 21+15	Pre-haul Maintenance

\*Construction from 15+20 to 22+25 is on an abandoned grade

**0-3 OPTIONAL ROADS**

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

<u>Road</u>	<u>Stations</u>	<u>Type</u>
VZ-5807	29+85 to 37+61	Construction
VZ-5807-05	0+00 to 1+65	Construction
VZ-5906	0+00 to 10+15	Construction
VZ-62	0+00 to 8+65	Construction

**0-4 CONSTRUCTION**

Construction includes, but is not limited to clearing, grubbing, excavation and embankment to sub-grade, landing and turnout construction, culvert installation, application of shot rock subgrade ballast, and application of 3-inch-minus ballast rock.

**0-6 PRE-HAUL MAINTENANCE**

All pre-haul maintenance includes, but is not limited to the following items:

- Brushing
- Blading, shaping, and ditching the road prism to the dimensions shown in the TYPICAL SECTION

Specific pre-haul maintenance specifications include:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
VZ-5807	29+85	Culvert inlet/outlet cleanout.

**0-7 POST-HAUL MAINTENANCE**

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

**0-10 ABANDONMENT**

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

**0-12 DEVELOP ROCK SOURCE**

Purchaser may develop existing rock sources. Rock source development will involve drilling, shooting, and processing rock to generate riprap, 3-inch-minus ballast rock, and shot rock subgrade ballast. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

SECTION 1 – GENERAL

**1-1 ROAD PLAN CHANGES**

If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for the submitted 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. Road Plan Clauses.
3. Typical Section Sheet.
4. Standard Lists.
5. Standard Details.

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>.

**1-9 DAMAGED METALLIC COATING**

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

**1-18 REFERENCE POINT DAMAGE**

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

**1-21 HAUL APPROVAL**

Purchaser shall not use roads under this road plan for any hauling other than timber cut on the right-of-way, without written approval from the Contract Administrator.

**1-23 ROAD WORK PHASE APPROVAL**

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

- Right-of-way
  - Falling/decking
  - Clearing/grubbing
- Subgrade Construction
  - Excavation and embankment to subgrade
  - Culvert installation
  - Ditch construction
  - Subgrade compaction
- Rock application
  - Rock compaction
  - Rock depth
- Erosion and sediment control
- Revegetation
- Abandonment

**1-25 ACTIVITY TIMING RESTRICTION**

The specified activities are not allowed during the listed closure periods unless authorized in writing by the Contract Administrator.

<u>Activity</u>	<u>Closure Period</u>
All Activities	November 1 to March 31

**1-26 OPERATING DURING CLOSURE PERIOD**

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

**1-29 SEDIMENT RESTRICTION**

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

**1-30 CLOSURE TO PREVENT DAMAGE**

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

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

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

**1-33 SNOW PLOWING RESTRICTION**

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

**1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS**

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

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

**SECTION 2 – MAINTENANCE**

**2-1 GENERAL ROAD MAINTENANCE**

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

**2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE**

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

**2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER**

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

**2-5 MAINTENANCE GRADING – EXISTING ROAD**

On the following roads, Purchaser shall use a grader to shape the existing surface before any hauling. Purchaser shall accomplish all grading using a motor grader with a minimum of 175 horsepower.

<u>Road</u>	<u>Stations</u>
All Pre-haul Maintenance roads	All stations

## SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

### 3-1 BRUSHING

On the following road, Purchaser shall cut vegetative material up to 6 inches in diameter, including limbs, as shown on the BRUSHING DETAIL. Brushing must be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

<u>Road</u>	<u>Stations</u>
VZ-ML	0+00 to 340+30
VZ-38	0+00 to 19+15
VZ-3804	0+00 to 15+20
VZ-58	0+00 to 41+30
VZ-5807	0+00 to 29+85
VZ-5807-06	0+00 to 4+11
VZ-59	0+00 to 41+85
VZ-60	0+00 to 21+15

### 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 or if not marked in the field, between the clearing limits specified on the TYPICAL SECTION SHEET. Clearing must be completed before starting excavation and embankment.

### 3-8 PROHIBITED DECKING AREAS

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

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 50%.
- Against standing trees.

### 3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Grubbing must be completed before starting excavation and embankment.



### **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, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris before the application of rock.

### **3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS**

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

### **3-23 PROHIBITED DISPOSAL AREAS**

Purchaser shall not place organic debris in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 50%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

### **3-24 BURYING ORGANIC DEBRIS RESTRICTED**

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

### **3-25 SCATTERING ORGANIC DEBRIS**

Purchaser shall scatter organic debris outside of the clearing limits in natural openings unless otherwise detailed in this road plan.

## **SECTION 4 – EXCAVATION**

### **4-1 EXCAVATOR CONSTRUCTION**

Purchaser shall use a track mounted hydraulic excavator for construction work, unless authorized in writing by the Contract Administrator.

**4-2 PIONEERING**

Pioneering may not extend past construction that will be completed during the current construction season. Pioneering may not extend more than 500 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.
- Culverts at live stream crossings must be installed during pioneering operations prior to embankment.

**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 50 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.

**4-4 SWITCHBACK STANDARDS**

A switchback is defined as a curved segment of road between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees.

Purchaser shall follow these standards for switchbacks:

- Maximum adverse grades for switchbacks is 10%.
- Maximum favorable grades for switchbacks is 12%.
- Maximum transition grades entering and leaving switchbacks is a 5% grade change.
- Transition grades required to meet switchback grade limitations must be constructed on the tangents preceding and departing from the switchbacks.

**4-5 CUT SLOPE RATIO**

Purchaser shall construct excavation slopes no steeper than shown on the following table, unless construction staked or designed:

<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
Fractured or loose rock	½:1	200
Hardpan or solid rock	¼:1	400

**4-6 EMBANKMENT SLOPE RATIO**

Purchaser shall construct embankment slopes no steeper than shown on the following table, unless construction staked or designed:

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

**4-7 SHAPING CUT AND FILL SLOPE**

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

**4-8 CURVE WIDENING**

The minimum widening placed on the inside of curves is:

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

**4-9 EMBANKMENT WIDENING**

The minimum embankment widening is:

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

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

**4-21 TURNOUTS**

Purchaser shall construct turnouts intervisible with a maximum distance of 1,000 feet between turnouts unless otherwise shown on drawings. Locations may be adjusted to fit the final subgrade alignment and sight distances. Locations are subject to written approval by the Contract Administrator. Minimum dimensions are shown on the TYPICAL SECTION SHEET.

**4-22 TURNAROUNDS**

At the end of all roads exceeding five stations, purchaser shall construct turnarounds as shown on the TURNAROUND DETAIL. Turnaround type and location are subject to written approval by the Contract Administrator.

**4-25 DITCH CONSTRUCTION**

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

**4-28 DITCH DRAINAGE**

Ditches must drain to cross-drain culverts or ditchouts.

**4-29 DITCHOUTS**

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

**4-35 WASTE MATERIAL DEFINITION**

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

**4-36 DISPOSAL OF WASTE MATERIAL**

Purchaser may sidecast waste material on side slopes up to 50% if the waste material is compacted and free of organic debris. On side slopes greater than 50%, all waste material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

**4-37 WASTE AREA LOCATION**

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

**4-38 PROHIBITED WASTE DISPOSAL AREAS**

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

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.
- Outside the clearing limits.

**4-55 ROAD SHAPING**

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

**4-60 FILL COMPACTION**

Purchaser shall compact all embankment and waste material by routing equipment over the entire width of each lift.

**4-61 SUBGRADE COMPACTION**

Purchaser shall compact constructed and reconstructed subgrades by routing equipment over the entire width.

**SECTION 5 – DRAINAGE**

**5-5 CULVERTS**

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on MATERIALS LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly on unprotected soil. Culverts may be new or used material (if specified in Clause 5-7) and must meet the specifications in Clauses 10-15 through 10-24.

**5-7 USED CULVERT MATERIAL**

On the following roads, Purchaser may install used culverts. All other roads must have new culverts installed. Purchaser shall obtain approval from the Contract Administrator for the quality of the used culverts before installation.

<u>Road</u>
VZ-5807
VZ-5807-05
VZ-5906
VZ-62

**5-12 UNUSED MATERIALS STATE PROPERTY**

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

**5-15 CULVERT INSTALLATION**

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

**5-16 APPROVAL FOR LARGER CULVERT INSTALLATION**

Purchaser shall obtain written approval from the Contract Administrator for the installation of culverts 30 inches in diameter and over before backfilling.

**5-17 CROSS DRAIN SKEW AND SLOPE**

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

**5-18 CULVERT DEPTH OF COVER**

Cross drain culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point. Stream crossing culverts must be installed with a depth of cover recommended by the culvert manufacturer for the type and size of the pipe.

**5-20 ENERGY DISSIPATERS**

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

Rock used for energy dissipaters must be light/loose riprap. Energy dissipaters must extend a minimum of 1 foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet. Rock must be set in place by machine. Placement must be by zero-drop-height method only. No placement by end dumping or dropping of rock is allowed. Rock type shall meet the specifications in Clause 6-50 LIGHT LOOSE RIP RAP.

**5-25 CATCH BASINS**

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

**5-26 HEADWALLS FOR CROSS DRAIN CULVERTS**

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts. Rock used for headwalls must weigh at least 50 pounds. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets. Rock may not restrict the flow of water into culvert inlets or catch basins. No placement by end dumping or dropping of rock is allowed.

**5-27 ARMORING FOR STREAM CROSSING CULVERTS**

At stream crossing culverts, Purchaser shall place riprap in conjunction with construction of the embankment. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the MATERIALS LIST or as directed by the Contract Administrator. Rock may not restrict the flow of water into culvert inlets or catch basins. Placement must be by zero-drop-height method only. No placement by end dumping or dropping of rock is allowed.

SECTION 6 – ROCK AND SURFACING

**6-2 ROCK SOURCE ON STATE LAND**

Rock used in accordance with the quantities on the TYPICAL SECTION and MATERIALS LIST may be obtained from the following sources on state land at no charge to the Purchaser. Purchaser shall obtain written approval from the Contract Administrator for the use of material from any other source. If other operators are using, or desire to use the rock sources, a joint operating plan must be developed. All parties shall follow this plan.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
McCoy Pit	Sta. 22+50 of the MM-22	3-inch minus ballast rock
Travelin Light Pit	Sta. 18+75 of the VZ-5807	shot rock, riprap
Little Lilly Pit	Sta. 4+00 of the VZ-5906	shot rock, riprap

**6-5 ROCK FROM COMMERCIAL SOURCE**

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

**6-11 ROCK SOURCE DEVELOPMENT PLAN BY PURCHASER**

Purchaser shall conduct rock source development and use at the following sources, in accordance with a written ROCK SOURCE DEVELOPMENT PLAN to be prepared by the Purchaser. The plan is subject to written approval by the Contract Administrator before any rock source operations. Upon completion of operations, the rock source must be left in the condition specified in the ROCK SOURCE DEVELOPMENT PLAN, and approved in writing by the Contract Administrator.

<u>Source</u>
McCoy Pit
Travelin Light Pit
Little Lilly Pit

Rock source development plans prepared by the Purchaser must show the following information:

- Rock source location.
- Rock source overview showing access roads, development areas, stockpile locations, waste areas, and floor drainage.
- Rock source profiles showing development areas, bench locations including widths, and wall faces including heights.

**6-12 ROCK SOURCE SPECIFICATIONS**

Rock sources must be in accordance with the following:

- Pit walls may not be undermined or over steepened. The maximum slope of the walls must be consistent with recognized engineering standards for the type of material being excavated in accordance with the following table:

Material	Maximum Slope Ratio (Horiz. :Vert.)	Maximum Slope Percent
Sand	2:1	50
Gravel	1.5:1	67
Common Earth	1:1	100
Fractured Rock	0.5:1	200
Solid Rock	0:1	vertical

- Pit walls must be maintained in a condition to minimize the possibility of the walls sliding or failing.
- The width of pit benches must be a minimum of 1.5 times the maximum length of the largest machine used.
- The surface of pit floors and benches must be uniform and free-draining at a minimum 2% outslope gradient.
- All operations must be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- All vehicle access to the top of the pit faces must be blocked.

**6-23 ROCK GRADATION TYPES**

Purchaser shall provide rock in accordance with the types and amounts listed in the TYPICAL SECTION and MATERIALS LIST. Rock must meet the following specifications for gradation and uniform quality when placed in hauling vehicles or during manufacture and placement into a stockpile. The exact point of evaluation for conformance to specifications will be determined by the Contract Administrator.

**6-34 3-INCH MINUS BALLAST ROCK**

Ballast rock must be 100% equal to, or smaller than, 3 inches in at least one dimension.

Rock may contain no more than 5 percent organic debris, dirt, and trash. All percentages are by weight.



**6-42 SHOT ROCK**

No more than 50 percent of the rock may be less than 6 inches in any dimension and no rock may be larger than 24 inches in any dimension. Shot rock may not contain more than 5 percent by weight of organic debris, dirt, and trash. Rock may require processing to meet this specification.

**6-50 LIGHT LOOSE RIP RAP**

Rip rap must consist of angular, hard, sound, and durable stone. It must be free from segregation, seams, cracks, and other defects. Light loose rip rap must be free of rock fines, soil, organic debris or other extraneous material, and must meet the following requirements:

<u>At Least/Not More Than</u>	<u>Weight Range</u>
20% / 90%	300 lbs. to 1 ton
80% / --	50 lbs. to ½ ton
10% / 20%	50 lbs. max

**6-51 HEAVY LOOSE RIP RAP**

Rip rap must consist of angular, hard, sound, and durable stone. It must be free from segregation, seams, cracks, and other defects. Heavy loose riprap must be free of rock fines, soil, organic debris or other extraneous material, and must meet the following requirements:

<u>At Least/Not More Than</u>	<u>Weight Range</u>	<u>Size Range</u>
30% / 90%	1 ton to 3 ton	36" - 54"
70% / 90%	500 lbs. to 1 ½ ton	24" - 42"
10% / 30%	50 lbs. max	3" - 8"

**6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH**

Measurement of specified rock depths, are defined as the compacted depths using the compaction methods required in this road plan. Estimated quantities specified in the TYPICAL SECTION are loose yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements, and are not subject to reduction.

**6-70 APPROVAL BEFORE ROCK APPLICATION**

Purchaser shall obtain written approval from the Contract Administrator for culvert installation, ditch construction, ditch reconstruction, headwall construction, and headwall reconstruction before rock application.

**6-71 ROCK APPLICATION**

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

**6-73 ROCK FOR WIDENED PORTIONS**

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

**6-75 OPTIONAL ROCK EXCEPTION**

On the following road, Purchaser may place less rock than shown on the TYPICAL SECTION, when approved in writing by the Contract Administrator.

<u>Road</u>	<u>Stations</u>	<u>Options</u>
VZ-5807	29+85 to 37+61	In areas of competent bedrock subgrade, 3-inch minus ballast rock depths may be reduced to a 6" lift.
VZ-5807-05	0+00 to 1+65	
VZ-5906	0+00 to 10+15	
VZ-62	0+00 to 8+65	

**SECTION 8 – EROSION CONTROL**

**8-2 PROTECTION FOR EXPOSED SOIL**

Purchaser shall provide and evenly spread a 4-inch layer of straw to all exposed soils within 50 feet of a stream or wetland. Soils must be covered before the first anticipated storm event.

**8-15 REVEGETATION**

Purchaser shall spread seed and fertilizer on all exposed soils within the grubbing limits resulting from road work activities. Cover all exposed soils using manual dispersal of grass seed and fertilizer. Other methods of covering must be approved in writing by the Contract Administrator.

**8-16 REVEGETATION SUPPLY**

The Purchaser shall provide the required grass seed and fertilizer.

**8-17 REVEGETATION TIMING**

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

**8-18 PROTECTION FOR SEED**

Purchaser shall provide a protective cover for seed if revegetation occurs between July 1 and March 31. The protective cover may consist of dispersed straw, jute matting, or clear plastic sheets. The protective cover requirement may be waived in writing by the Contract Administrator if Purchaser is able to demonstrate a revegetation plan that will result in the establishment of a uniform dense crop (at least 50% coverage) of 3-inch tall grass by October 31.

**8-19 ASSURANCE FOR SEEDED AREA**

Purchaser shall ensure the growth of a uniform and dense crop (at least 50% coverage) of 3-inch tall grass. Purchaser shall reapply the grass seed and fertilizer in areas that have failed to germinate or have been damaged through any cause. Restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the seed and fertilizer at no addition cost to the state.

**8-25 GRASS SEED**

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

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

<u>Kind and Variety of Seed in Mixture</u>	<u>% by Weight</u>
Creeping Red Fescue	50
Elf Perennial Rye Grass	25
Highland Colonial Bentgrass	15
White Clover	10
Inert and Other Crop	0.5

**8-27 FERTILIZER**

Purchaser shall evenly spread the fertilizer listed below on all exposed soil inside the grubbing limits at a rate of 200 pounds per acre of exposed soil. Fertilizer must meet the following specifications:

<u>Chemical Component</u>	<u>% by Weight</u>
Nitrogen	16
Phosphorous	16
Potassium	16
Sulphur	3
Inerts	49

**SECTION 9 – POST-HAUL ROAD WORK**

**9-3 CULVERT MATERIAL REMOVED FROM STATE LAND**

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

**9-5 POST-HAUL MAINTENANCE**

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

**9-10 LANDING DRAINAGE**

Purchaser shall provide for drainage of the landing surface.

**9-12 LANDING EMBANKMENT REMOVAL**

Purchaser shall reduce or relocate the landing embankment. Place excavated material in a waste area approved in writing by the Contract Administrator.

**9-21 ROAD ABANDONMENT**

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

<u>Road</u>	<u>Stations</u>
VZ-5807	18+75 to 37+61
VZ-5807-05	0+00 to 1+65
VZ-5807-06	0+00 to 4+11
VZ-5906	0+00 to 10+15
VZ-62	0+00 to 8+65

## **9-22 ABANDONMENT**

- Remove all ditch relief culverts. The resulting slopes must be 1:1 or flatter. Place and compact the removed fill material in a location that will not erode into any Type 1 through 5 waters or wetlands.
- Remove all culverts in natural drainages. The resulting slopes must be 1½ :1 or flatter. Strive to match the existing native stream bank gradient. The natural streambed width must be re-established. Place and compact the removed fill material in a location that will not erode into any Type 1 through 5 waters or wetlands.
- Transport all removed culverts off site. All removed culverts are the property of the Purchaser.
- Construct non-drivable waterbars at natural drainage points and at a spacing that will produce a vertical drop of no more than 20 feet between waterbars and with a maximum horizontal spacing of 400 feet.
- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
- Key waterbars into the cut-slope to intercept the ditch. Waterbars must be outsloped to provide positive drainage. Outlets must be on stable locations.
- Inslope or outslope the road as appropriate.
- Remove bridges and other structures.
- Pull back unstable fill that has potential of failing and entering any Type 1 through 5 waters or wetlands. Place and compact removed material in a stable location.
- Remove berms except as designed.
- Block the road by constructing an aggressive barrier of dense interlocked large woody debris (logs, stumps, root wads, etc.) so that four wheel highway vehicles cannot pass the point of abandonment. Typical barrier dimensions are 10 feet high by 20 feet deep, spanning the entire road prism from top of cutslope to toe of fillslope. Long term effectiveness is the primary objective. If necessary construct a vehicular turn-around near the point of abandonment.
- Apply grass seed to all exposed soils resulting from the abandonment work and in accordance with Section 8 EROSION CONTROL.

## **SECTION 10 MATERIALS**

### **10-15 CORRUGATED STEEL CULVERT**

Metallic coated steel culverts must meet AASHTO M-36 (ASTM A-760) specifications. Culverts must be galvanized (zinc coated meeting AASHTO M-218).

### **10-17 CORRUGATED PLASTIC CULVERT**

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

**10-21 METAL BAND**

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

**10-22 PLASTIC BAND**

Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used.

**10-23 RUBBER CULVERT GASKETS**

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

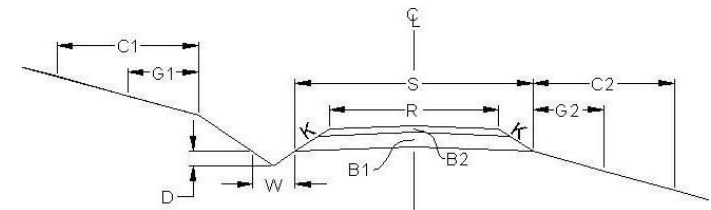
**10-24 GAUGE AND CORRUGATION**

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

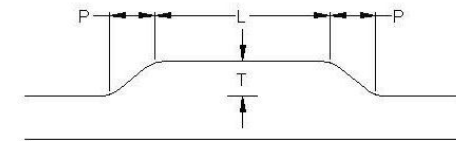
<u>Diameter</u>	<u>Gage</u>	<u>Corrugation</u>
18"	16 (0.064")	2 2/3" X 1/2"
24" to 48"	14 (0.079")	2 2/3" X 1/2"
54" to 96"	14 (0.079")	3" X 1"

ROAD #		VZ-ML	VZ-38	VZ-3804	VZ-3804*
REQUIRED / OPTIONAL		REQUIRED	REQUIRED	REQUIRED	REQUIRED
CONSTRUCT / RECONSTRUCT		PRE-HAUL	PRE-HAUL	PRE-HAUL	CONSTRUCT
TOLERANCE CLASS (A/B/C)		A	A	A	A
STATION / MP TO		0+00	0+00	0+00	15+20
STATION / MP		340+30	19+15	15+20	22+25
ROAD WIDTH	R	12	12	12	12
CROWN (INCHES @ C/L)		3	3	3	3
DITCH WIDTH	W	3	3	3	3
DITCH DEPTH	D	1	1	1	1
TURNOUT LENGTH	L	50	50	50	50
TURNOUT WIDTH	T	10	10	10	10
TURNOUT TAPER	P	25	25	25	25
GRUBBING	G1	--	--	--	5
	G2	--	--	--	5
CLEARING	C1	--	--	--	10
	C2	--	--	--	10
ROCK FILLSLOPE	K:1	--	--	--	1½
❖ BALLAST DEPTH	B1	--	--	--	--
CUBIC YARDS / STATION		--	--	--	--
➤ TOTAL CY BALLAST		--	--	--	--
❖ SURFACING DEPTH	B2	--	--	--	12
CUBIC YARDS / STATION		--	--	--	72
➤ TOTAL CY SURFACING		--	--	--	510 B
➤ TOTAL CUBIC YARDS		--	--	--	510
SUBGRADE WIDTH	S	--	--	--	--
BRUSHCUT (Y/N)		Y	Y	Y	N
BLADE, SHAPE, & DITCH (Y/N)		Y	Y	Y	N

### TYPICAL SECTION



### TURNOUT DETAIL (PLAN VIEW)



### SYMBOL NOTES

- ❖ Specified Rock Depth is FINISHED COMPACTED DEPTH in inches.
- Specified Rock Quantity is LOOSE MEASURE (Truck Cubic Yards) needed to accomplish specified FINISHED COMPACTED DEPTH. Rock quantities include volume for turnouts, curve widening and landings.

\*CONSTRUCTION IS ON AN ABANDONED GRADE

**A** SHOT ROCK FROM LITTLE LILLY OR TRAVELIN LIGHT PIT  
**B** 3-INCH MINUS BALLAST ROCK FROM MCCOY PIT

TOTAL SHOT ROCK = 2250 CY  
TOTAL 3-INCH MINUS BALLAST ROCK = 3025 CY  
TOTAL RIPRAP = 130 CY

ROAD #		VZ-3804	VZ-58	VZ-5807	VZ-5807	VZ-5807-05	VZ-5807-06	VZ-59	VZ-5906
REQUIRED / OPTIONAL		REQUIRED	REQUIRED	REQUIRED	OPTIONAL	OPTIONAL	REQUIRED	REQUIRED	OPTIONAL
CONSTRUCT / RECONSTRUCT		CONSTRUCT	PRE-HAUL	PRE-HAUL	CONSTRUCT	CONSTRUCT	PRE-HAUL	PRE-HAUL	CONSTRUCT
TOLERANCE CLASS (A/B/C)		C	A	A	C	C	A	A	C
STATION / MP TO		22+25	0+00	0+00	29+85	0+00	0+00	0+00	0+00
STATION / MP		38+60	41+30	29+85	37+61	1+65	4+11	41+85	10+15
ROAD WIDTH	R	12	12	12	12	12	12	12	12
CROWN (INCHES @ C/L)		3	3	3	3	3	3	3	3
DITCH WIDTH	W	3	3	3	3	3	3	3	3
DITCH DEPTH	D	1	1	1	1	1	1	1	1
TURNOUT LENGTH	L	50	50	50	25	25	50	50	25
TURNOUT WIDTH	T	10	10	10	10	10	10	10	10
TURNOUT TAPER	P	25	25	25	25	25	25	25	25
GRUBBING	G1	5	--	--	5	5	--	--	5
	G2	5	--	--	5	5	--	--	5
CLEARING	C1	10	--	--	10	10	--	--	10
	C2	10	--	--	10	10	--	--	10
ROCK FILLSLOPE	K:1	1½	--	--	1½	1½	--	--	1½
❖ BALLAST DEPTH	B1	--	--	--	12	12	--	--	12
CUBIC YARDS / STATION		--	--	--	80	80	--	--	80
➤ TOTAL CY BALLAST		--	--	--	620 A	130 A	--	--	810 A
❖ SURFACING DEPTH	B2	15	--	--	6	6	--	--	6
CUBIC YARDS / STATION		95	--	--	34	34	--	--	34
➤ TOTAL CY SURFACING		1555 B	--	--	265 B	55 B	--	--	345 B
➤ TOTAL CUBIC YARDS		1555	--	--	755	185	--	--	1155
SUBGRADE WIDTH	S	15.75	--	--	16.5	16.5	--	--	16.5
BRUSHCUT (Y/N)		N	Y	Y	N	N	Y	Y	N
BLADE, SHAPE, & DITCH (Y/N)		N	Y	Y	N	N	Y	Y	N



ROAD #		VZ-60	VZ-62					
REQUIRED / OPTIONAL		REQUIRED	OPTIONAL					
CONSTRUCT / RECONSTRUCT		PRE-HAUL	CONSTRUCT					
TOLERANCE CLASS (A/B/C)		A	C					
STATION / MP TO		0+00	0+00					
STATION / MP		21+15	8+65					
ROAD WIDTH	R	12	12					
CROWN (INCHES @ C/L)		3	3					
DITCH WIDTH	W	3	3					
DITCH DEPTH	D	1	1					
TURNOUT LENGTH	L	50	25					
TURNOUT WIDTH	T	10	10					
TURNOUT TAPER	P	25	25					
GRUBBING	G1	--	5					
	G2	--	5					
CLEARING	C1	--	10					
	C2	--	10					
ROCK FILLSLOPE	K:1	--	1½					
❖ BALLAST DEPTH	B1	--	12					
CUBIC YARDS / STATION		--	80					
➤ TOTAL CY BALLAST		--	690 A					
❖ SURFACING DEPTH	B2	--	6					
CUBIC YARDS / STATION		--	34					
➤ TOTAL CY SURFACING		--	295 B					
➤ TOTAL CUBIC YARDS		--	985					
SUBGRADE WIDTH	S	--	16.5					
BRUSHCUT (Y/N)		Y	N					
BLADE, SHAPE, & DITCH (Y/N)		y	N					

### MATERIALS LIST

LOCATION		CULVERT			DWNSPT		RIPRAP			FILL TYPE	TOLERANCE	REMARKS		
ROAD #	STATION	DIAMETER	LENGTH	TYPE	LENGTH	TYPE	INLET	OUTLET	TYPE			<u>Note:</u> Galvanized metal culverts shall conform to the following specifications for gage and corrugation as a function of the diameter:		
												Diameter	Gage	Corrugation
												18"                      16                      2 2/3" x 1/2" 24" – 48"              14                      2 2/3" x 1/2" 54" – 96"              14                      3" x 1"		
VZ-3804	16+70	18	30	XX			2	3	L	NT	C			
VZ-3804	22+60	24	40	XX			5	10	H/L	NT	C	T5 Stream		
VZ-3804	25+25	18	30	XX			2	3	L	NT	C			
VZ-3804	26+55	24	40	XX			5	10	H/L	NT	C	T5 Stream		
VZ-3804	27+30	48	40	GM			15	20	H/L	NT	c	T4 Stream		
VZ-3804	28+90	18	30	XX			2	3	L	NT	C			
VZ-3804	32+55	18	30	XX			2	3	L	NT	C			
VZ-3804	37+80	18	30	XX			2	3	L	NT	C			
VZ-5807	31+46	18	30	XX			2	3	L	NT	C			
VZ-5807	32+96	18	30	XX			2	3	L	NT	C			
VZ-5807	36+86	18	30	XX			2	3	L	NT	C			
VZ-5807-05	0+25	18	50	XX			2	3	L	NT	C	Install in VZ-5807 ditchline under VZ-5807-05 road		
VZ-5906	3+20	18	30	XX			2	3	L	NT	C			
VZ-5906	6+55	18	30	XX			2	3	L	NT	C			
VZ-5906	9+40	18	30	XX			2	3	L	NT	C			
VZ-62	1+20	18	30	XX			2	3	L	NT	C			

GM – Galvanized Metal    PS – Polyethylene Pipe Single Wall    PD – Polyethylene Pipe Dual Wall    AM – Aluminized Metal    C – Concrete    XX – PD or GM  
 H – Heavy Loose Riprap    L – Light Loose Riprap    SR – Shot Rock    NT – Native (Bank Run)    QS – Quarry Spalls

## FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

### Cuts and Fills

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

### Surface

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

### Drainage

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

### Preventative Maintenance

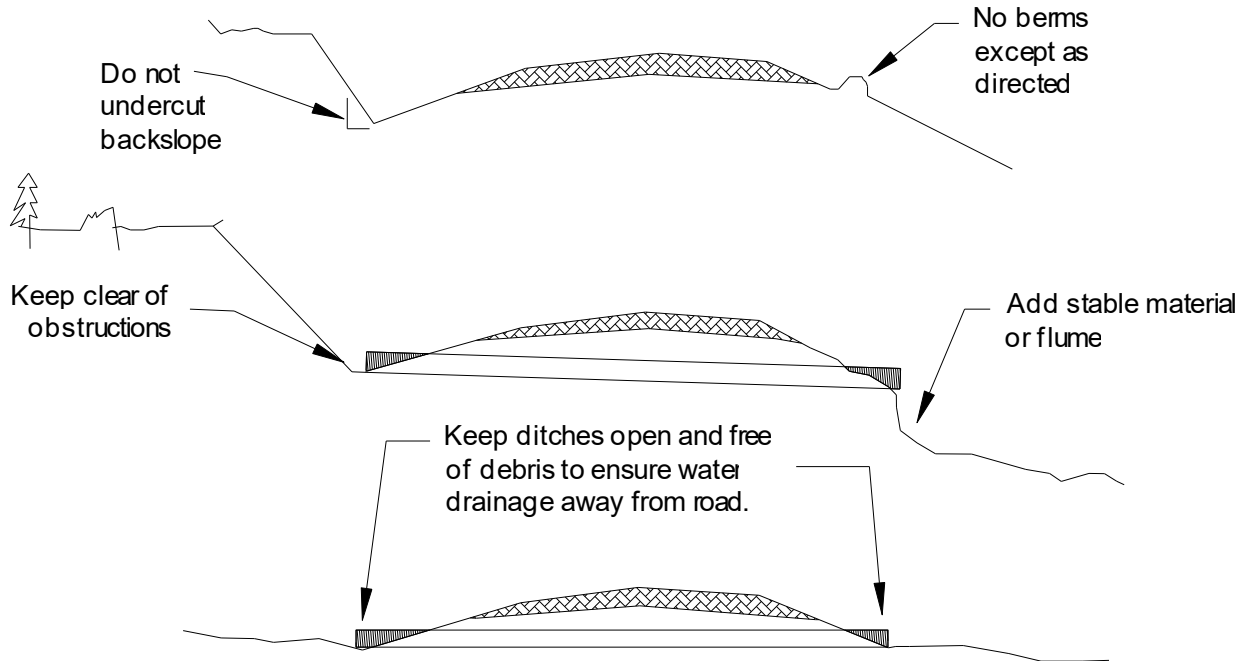
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

### Termination of Use or End of Season

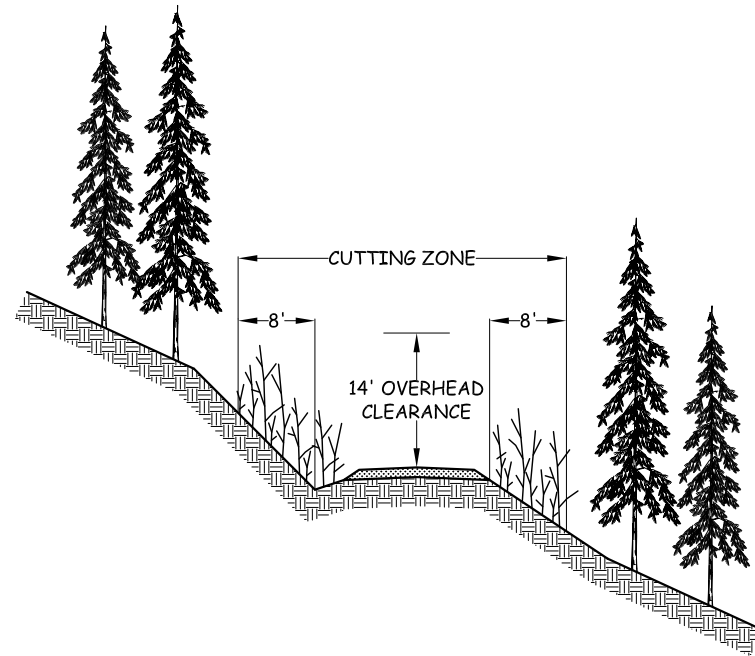
- At the conclusion of logging operations, ensure all conditions of these specifications have been met.

### Debris

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



## ROAD BRUSHING DETAILS



### SPECIFICATIONS

BRUSH SHALL BE CUT ON THE ROAD SURFACE AND 8 ft. BACK FROM ROAD DITCH AND OUTSIDE EDGE OF RUNNING SURFACE.

ON THE INSIDE OF SWITCHBACKS AND TIGHT CURVES, BRUSH SHALL BE CUT BACK 16 ft. FOR VISIBILITY.

ON TRUCK TURNOUTS, BRUSH SHALL BE CUT 8 ft. BACK FROM OUTSIDE EDGE.

BRUSH SHALL BE CUT TO PROVIDE AN OVERHEAD CLEARANCE OF 14 ft. ABOVE THE ROAD RUNNING SURFACE.

BRUSH SHALL BE CUT TO WITHIN 6 in. OF THE GROUND.

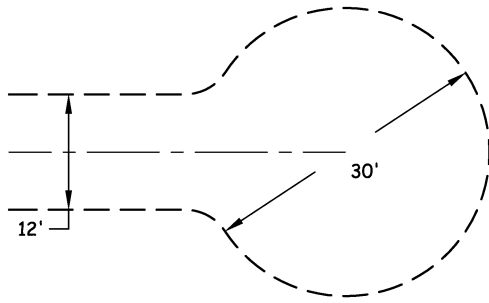
SLASH SHALL BE REMOVED FROM CUT SLOPES ABOVE THE ROAD AND SCATTERED ON EMBANKMENT SLOPES.

DITCHES SHALL BE CLEARED OF WOODY DEBRIS.

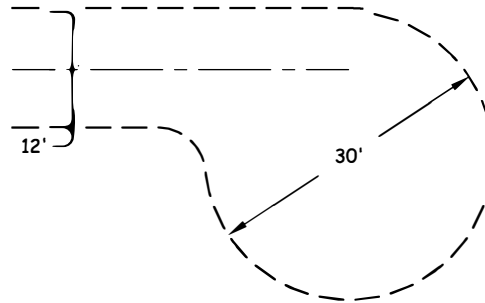
CULVERT INLETS AND OUTLETS SHALL BE CLEANED A MINIMUM DISTANCE OF TWO PIPE DIAMETERS AWAY.

CONTRACT #	PROJECT	SHEET
30-104692	LITTLE LILLY	30 OF 33

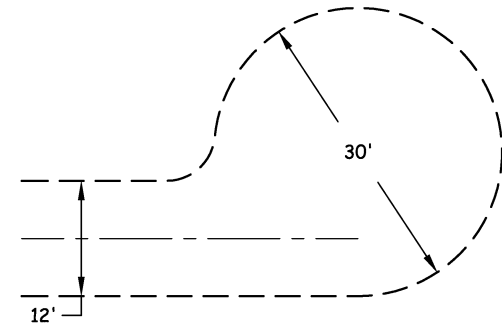
## TURNAROUND DETAILS



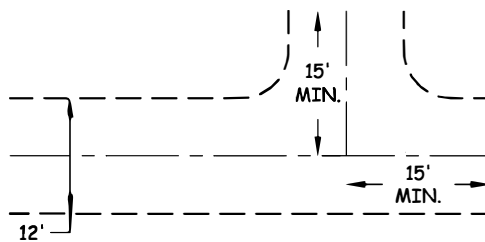
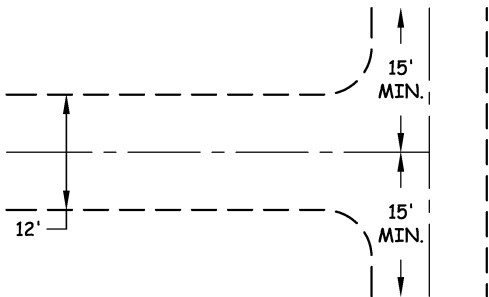
HAMMERHEAD



CUL-DE-SAC

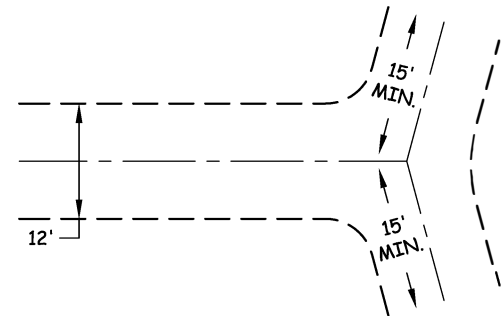


3-POINT WYE



MUST BE CONSTRUCTED WITHIN  
100' OF THE END OF THE ROAD.

3-POINT SIDE



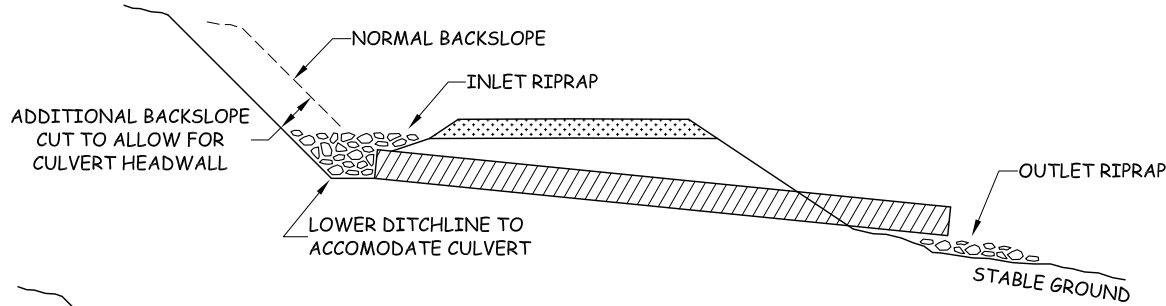
TURNAROUND TYPE AND TURNAROUND LOCATION ARE SUBJECT TO THE APPROVAL OF THE CONTRACT ADMINISTRATOR.

ROCK SHALL BE APPLIED THROUGHOUT THE TURNAROUND TO THE SAME DEPTH AND SPECIFICATIONS AS LISTED IN THE TYPICAL SECTION.

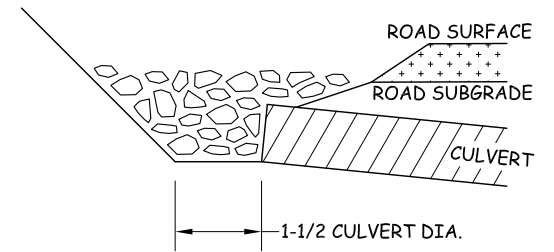
CONTRACT # 30-104692	PROJECT LITTLE LILLY	SHEET 31 OF 33
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# CULVERT AND DRAINAGE SPECIFICATIONS

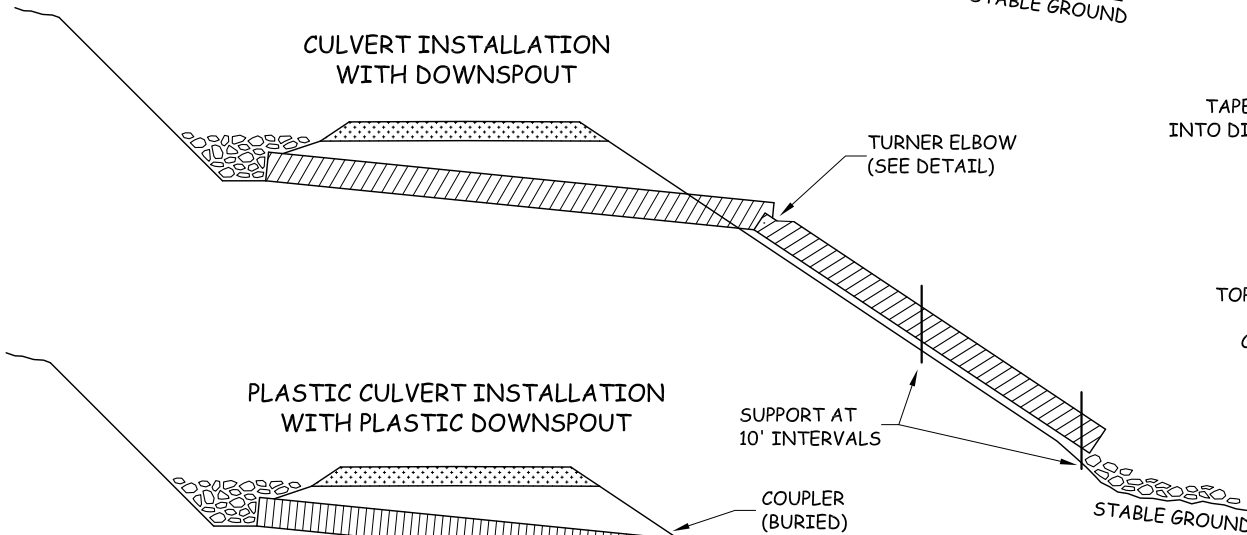
**CULVERT INSTALLATION (TYPICAL)**



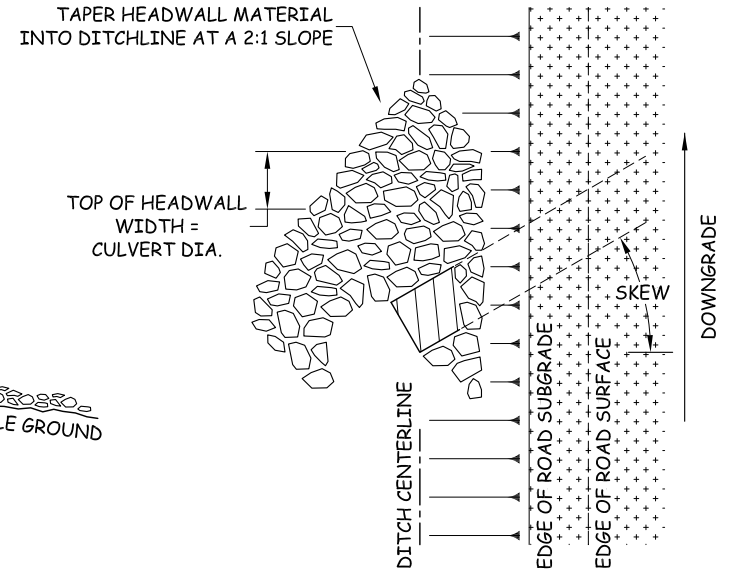
**CULVERT HEADWALL - SECTION VIEW**



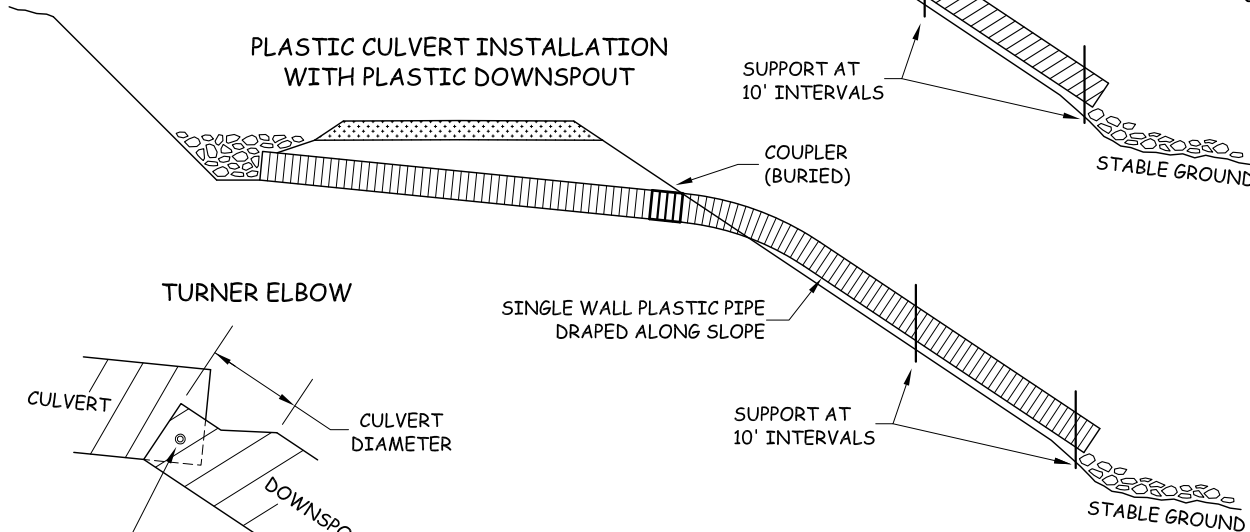
**CULVERT INSTALLATION WITH DOWNSPOUT**



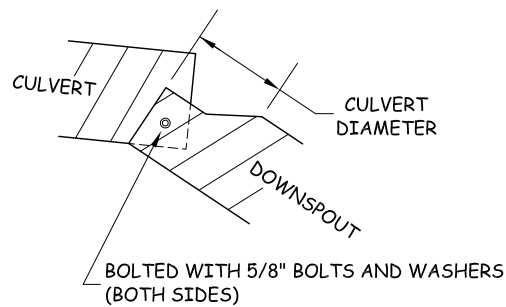
**CULVERT HEADWALL - PLAN VIEW**



**PLASTIC CULVERT INSTALLATION WITH PLASTIC DOWNSPOUT**



**TURNER ELBOW**



**HEADWALL NOTE:**  
 HEADWALL TO BE CONSTRUCTED OF IMPERVIOUS MATERIAL THAT WILL RESIST EROSION AND ARMORED WITH RIPRAP QUANTITY SPECIFIED IN ROAD PLAN.

CONTRACT #	PROJECT	SHEET
30-104692	LITTLE LILLY	32 OF 33

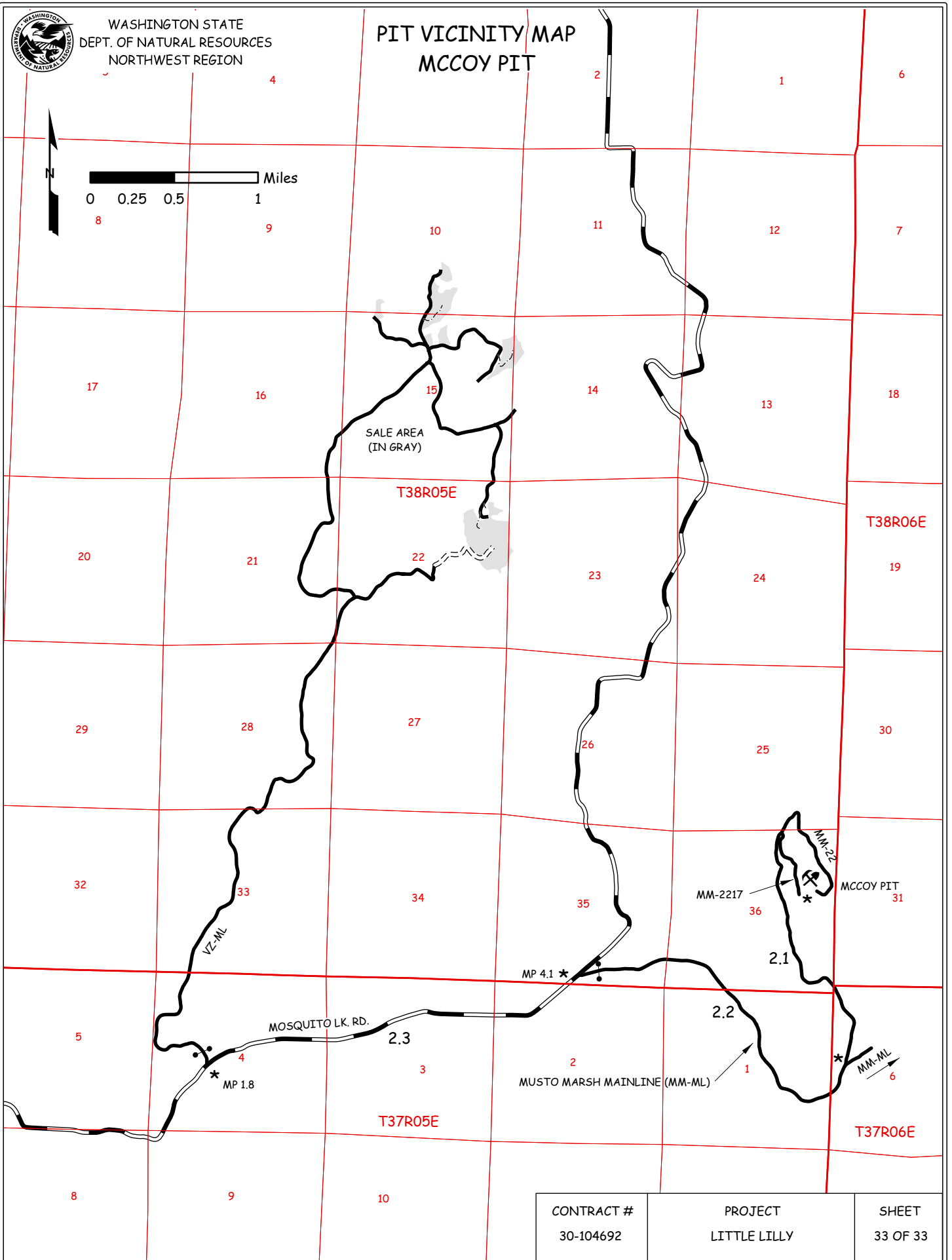


WASHINGTON STATE  
DEPT. OF NATURAL RESOURCES  
NORTHWEST REGION

# PIT VICINITY MAP MCCOY PIT



0 0.25 0.5 1 Miles



CONTRACT # 30-104692	PROJECT LITTLE LILLY	SHEET 33 OF 33
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**ROAD COST SUMMARY**

FIREFLY CH Timber Sale #30-095714

**CONSTRUCTION SUMMARY**

ROAD #	STATIONING	TOTAL STATIONS	ROCK PRODUCTION COST	ROCK LOADING COST	ROCK HAUL COST	ROCK SPREADING COST	CONSTRUCTION COST	CULVERT COST	OTHER COST	TOTAL COST	COST/STA
VZ-3804	15+20 to 22+25	7.05	\$4,590	\$1,944	\$11,588	\$2,224	\$2,318	\$455	\$282	\$23,401	\$3,319
VZ-3804	22+25 to 38+60	16.35	\$13,995	\$6,189	\$36,900	\$7,084	\$11,589	\$5,443	\$654	\$81,854	\$5,006
VZ-5807	29+85 to 36+50	6.65	\$5,205	\$4,496	\$8,794	\$1,296	\$4,925	\$1,366	\$266	\$26,348	\$3,962
VZ-5807-05	0+00 to 1+65	1.65	\$1,275	\$1,110	\$2,156	\$317	\$1,159	\$765	\$66	\$6,848	\$4,151
VZ-5906	0+00 to 10+15	10.15	\$7,965	\$6,829	\$13,444	\$1,987	\$6,954	\$1,366	\$406	\$38,949	\$3,837
VZ-62	0+00 to 8+65	8.65	\$6,795	\$5,774	\$14,063	\$1,699	\$5,215	\$455	\$346	\$34,347	\$3,971
									<b>TOTAL</b>	<b>\$211,748</b>	

CONSTRUCTION COSTS include, clearing and grubbing, excavation and embankment, drilling and shooting on grade, and endhaul.

OTHER COSTS include erosion control, grass seeding and fertilizer, and miscellaneous other requirements detailed in the road plan.

**PRE-HAUL MAINTENANCE SUMMARY**

ROAD #	STATIONING	TOTAL STATIONS	ROCK PRODUCTION COST	ROCK LOADING COST	ROCK HAUL COST	ROCK SPREADING COST	CULVERT COST	OTHER COST	PRE-HAUL GRADING AND BRUSHING	TOTAL COST	COST/STA
VZ-ML	0+00 to 340+30	340.30	\$0	\$0	\$0	\$0	\$0	\$0	\$14,824	\$14,824	\$44
VZ-38	0+00 to 19+15	19.15	\$0	\$0	\$0	\$0	\$0	\$0	\$834	\$834	\$44
VZ-3804	0+00 to 15+20	15.20	\$0	\$0	\$0	\$0	\$0	\$0	\$662	\$662	\$44
VZ-58	0+00 to 41+30	41.30	\$0	\$0	\$0	\$0	\$0	\$0	\$1,799	\$1,799	\$44
VZ-5807	0+00 to 18+75	18.75	\$0	\$0	\$0	\$0	\$0	\$0	\$817	\$817	\$44
VZ-5807	18+75 to 29+85	11.10	\$0	\$0	\$0	\$0	\$0	\$0	\$484	\$484	\$44
VZ-5807-06	0+00 to 3+25	3.25	\$0	\$0	\$0	\$0	\$0	\$0	\$142	\$142	\$44
VZ-59	0+00 to 41+85	41.85	\$0	\$0	\$0	\$0	\$0	\$0	\$1,823	\$1,823	\$44
VZ-60	0+00 to 21+15	21.15	\$0	\$0	\$0	\$0	\$0	\$0	\$921	\$921	\$44
									<b>TOTAL</b>	<b>\$22,305</b>	

OTHER COSTS include cleaning culverts, ditches, headwalls, catch basins, culvert installation, and miscellaneous other requirements detailed in the road plan.

**ROAD COST SUMMARY**

FIREFLY CH Timber Sale #30-095714

**POST-HAUL MAINTENANCE SUMMARY**

ROAD #	STATIONING	TOTAL STATIONS	POST-HAUL GRADING COST	OTHER COST	TOTAL COST	COST/STA
VZ-ML	0+00 to 340+30	340.30	\$5,156	\$0	\$5,156	\$15
VZ-38	0+00 to 19+15	19.15	\$290	\$0	\$290	\$15
VZ-3804	0+00 to 15+20	15.20	\$230	\$0	\$230	\$15
VZ-3804	15+20 to 22+25	7.05	\$107	\$0	\$107	\$15
VZ-3804	22+25 to 38+60	16.35	\$248	\$0	\$248	\$15
VZ-58	0+00 to 41+30	41.30	\$626	\$0	\$626	\$15
VZ-5807	0+00 to 18+75	18.75	\$284	\$0	\$284	\$15
VZ-59	0+00 to 41+85	41.85	\$634	\$0	\$634	\$15
VZ-60	0+00 to 21+15	21.15	\$320	\$0	\$320	\$15
			<b>TOTAL</b>		<b>\$7,895</b>	

OTHER COSTS include miscellaneous other requirements detailed in the road plan.

**ABANDONMENT SUMMARY**

ROAD #	STATIONING	TOTAL STATIONS	ABANDONMENT COST	OTHER COST	TOTAL COST	COST/STA
VZ-5807	18+75 to 29+85	11.10	\$473	\$0	\$473	\$43
VZ-5807	29+85 to 36+50	6.65	\$473	\$0	\$473	\$71
VZ-5807-05	0+00 to 1+65	1.65	\$237	\$0	\$237	\$143
VZ-5807-06	0+00 to 3+25	3.25	\$237	\$0	\$237	\$73
VZ-5906	0+00 to 10+15	10.15	\$710	\$0	\$710	\$70
VZ-62	0+00 to 8+65	8.65	\$710	\$0	\$710	\$82
			<b>TOTAL</b>		<b>\$2,840</b>	

OTHER COSTS include miscellaneous other requirements detailed in the road plan.

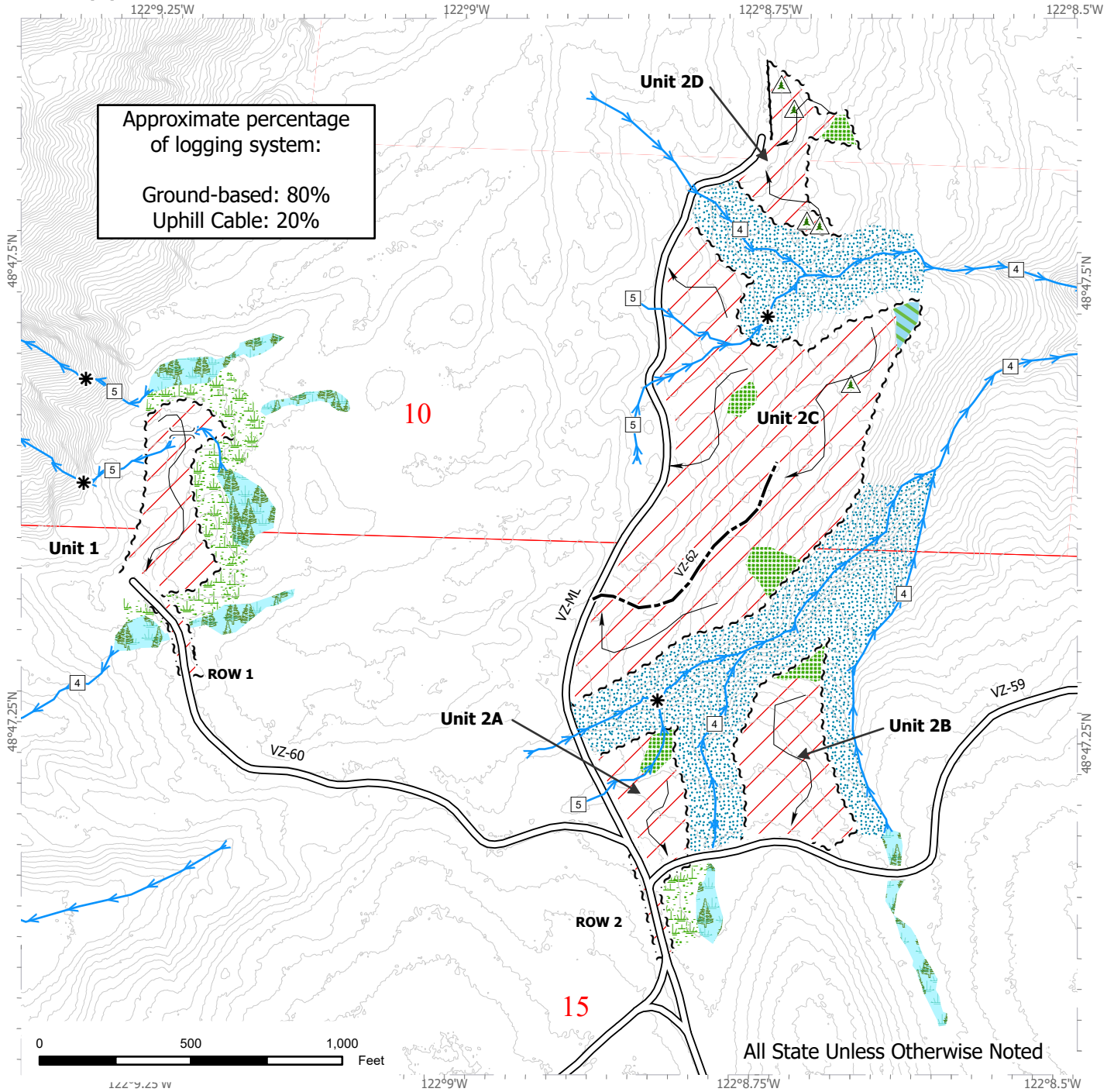
NOTE: ALL MOBILIZATION COSTS HAVE BEEN AMORTIZED IN WITH OTHER COSTS.

<b>TOTAL ROAD COST</b>	<b>\$244,788</b>	
<b>SALE VOLUME (MBF)</b>	<b>3575</b>	<b>PRE-CRUISE ESTIMATED VOLUME</b>
<b>ROAD COST/MBF</b>	<b>\$68</b>	

# LOGGING PLAN MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT #:** 30-106363  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120



Approximate percentage of logging system:  
 Ground-based: 80%  
 Uphill Cable: 20%

All State Unless Otherwise Noted

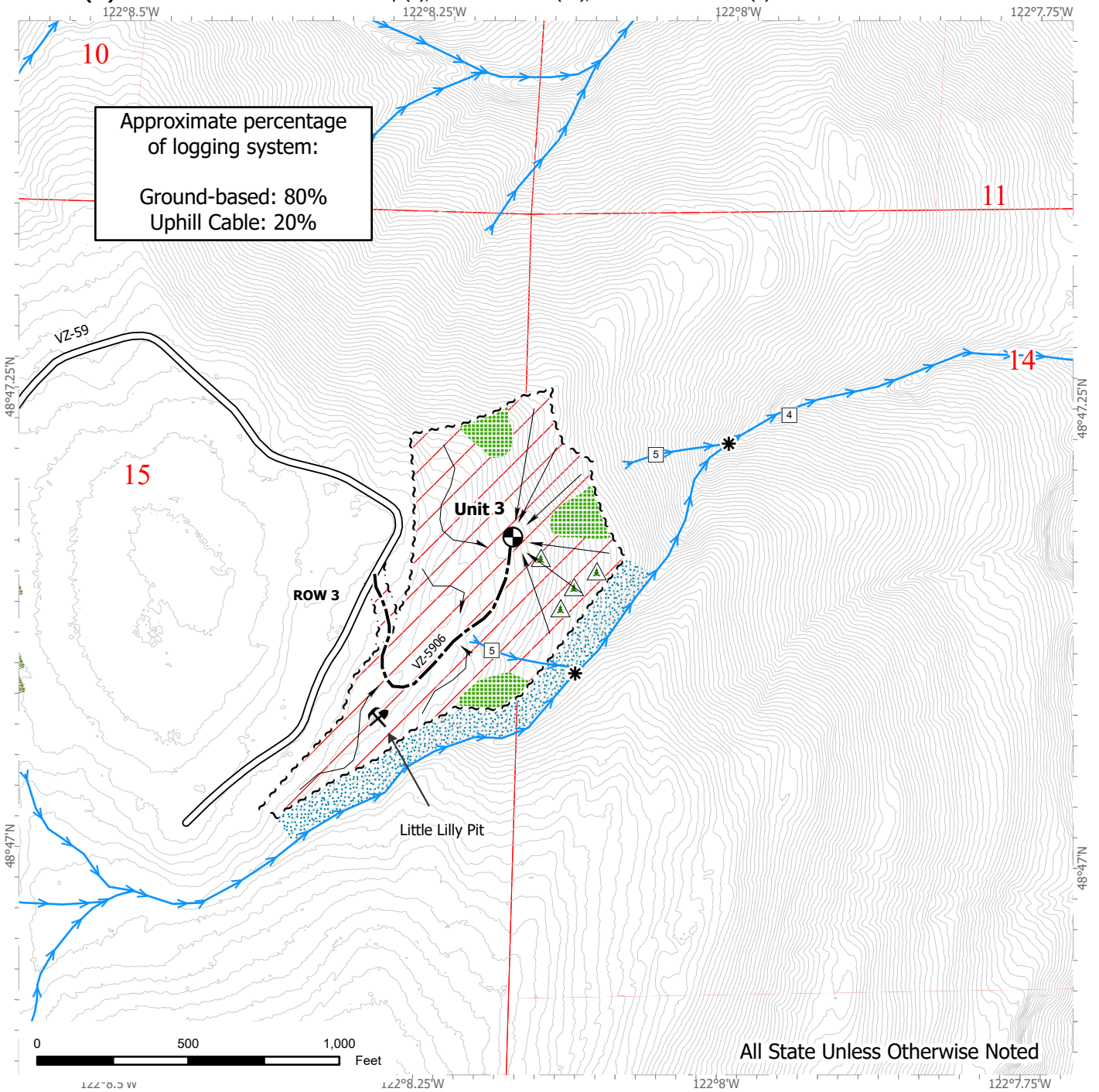
Sale Area	Sale Boundary Tags	Streams
Leave Tree Area	Right of Way Tags	Stream Type
Non-Tradeable Leave Clump	Timber Type Change	Stream Break
Forested Wetland	Existing Roads	Non-Tradeable Leave Tree
Wetland Mgt Zone	Optional Construction	Designated Crossing
Riparian Mgt Zone	Cable Yarding	
	Ground Yarding	



# LOGGING PLAN MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT #:** 30-106363  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120



Approximate percentage of logging system:  
 Ground-based: 80%  
 Uphill Cable: 20%

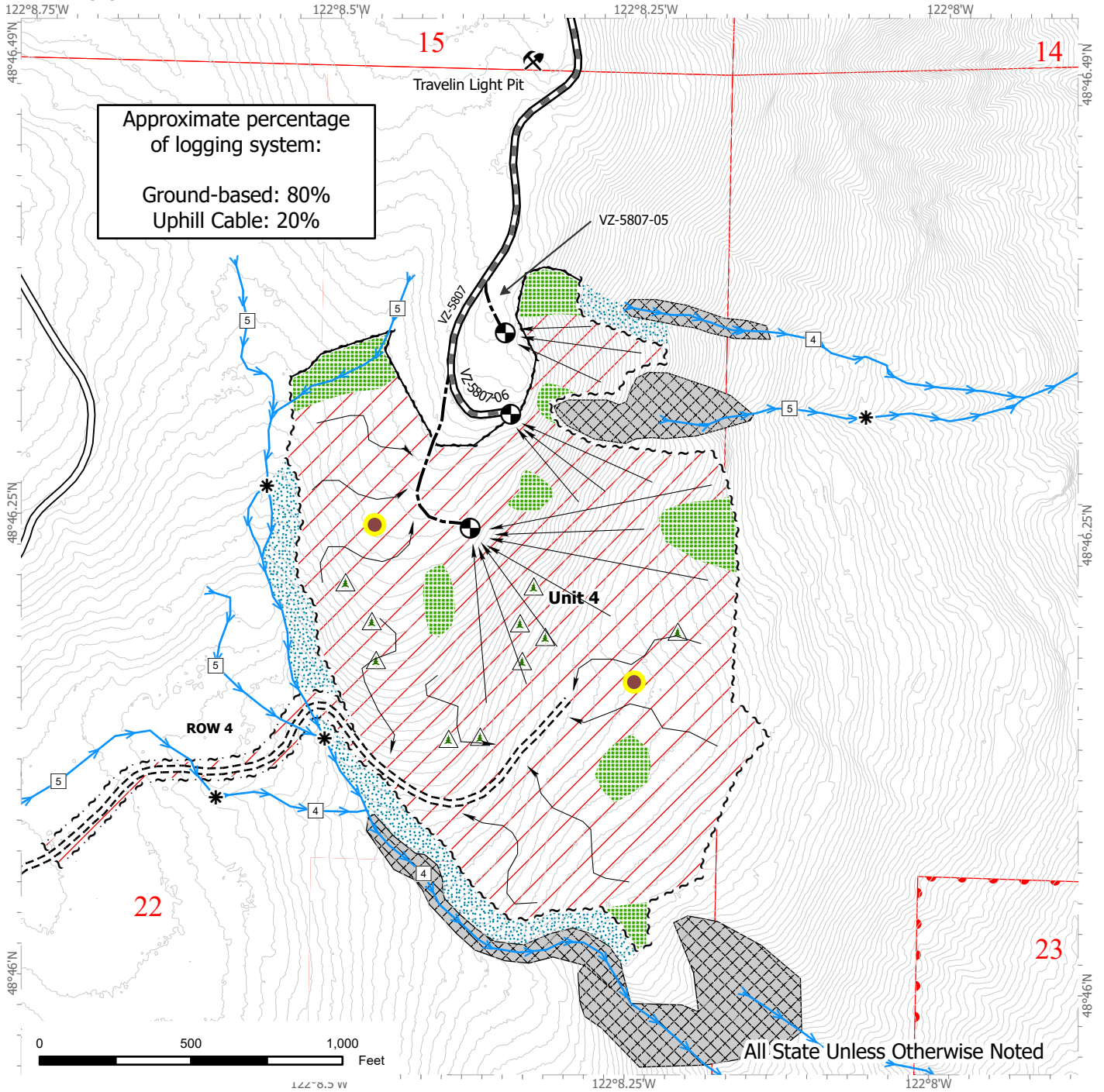
All State Unless Otherwise Noted

Sale Area	Sale Boundary Tags	Streams
Leave Tree Area	Right of Way Tags	Stream Type
Non-Tradeable Leave Clump	Existing Roads	Stream Break
Forested Wetland	Optional Construction	Non-Tradeable Leave Tree
Wetland Mgt Zone	Cable Yarding	Landing - Proposed
Riparian Mgt Zone	Ground Yarding	Rock Pit

# LOGGING PLAN MAP

**SALE NAME:** LITTLE LILLY  
**AGREEMENT #:** 30-106363  
**TOWNSHIP(S):** T38R5E  
**TRUST(S):** Common School and Indemnity (3), Scientific School (10), State Forest Transfer (1)

**REGION:** Northwest Region  
**COUNTY(S):** Whatcom  
**ELEVATION RGE:** 1600-2120



Approximate percentage  
 of logging system:  
  
 Ground-based: 80%  
 Uphill Cable: 20%

All State Unless Otherwise Noted

Sale Area	Sale Boundary Tags	Ground Yarding
Leave Tree Area	Right of Way Tags	Streams
Non-Tradeable Leave Clump	Timber Type Change	Stream Type
Forested Wetland	Existing Roads	Stream Break
Wetland Mgt Zone	Required Pre-Haul Maintenance	Non-Tradeable Leave Tree
Riparian Mgt Zone	Required Construction	Landing - Proposed
No Entry Zone	Optional Construction	Rock Pit
	Cable Yarding	Large Snag

4085090

EASEMENT SUPPLEMENT

THIS SUPPLEMENTAL AGREEMENT, made and entered into this 1st day of February, 1971, by and between GEORGIA-PACIFIC CORPORATION, a Georgia corporation, herein called "Georgia-Pacific," and STATE OF WASHINGTON, acting by and through the Department of Natural Resources, herein called "State," WITNESSETH:

On the 26th day of November, 1968, Georgia-Pacific and the State entered into an easement exchange hereinafter called Original Easement, which was recorded in the records of Whatcom County, Washington on the 17th day of January, 1969, in Volume 92 of Deeds, on Pages 154-161 under Auditor's File No. 1055090. Said Original Easement is hereby supplemented as follows:

I

A. Georgia-Pacific for and in consideration of \$6,837.96 hereby grants and conveys to State, its successors and assigns, a permanent nonexclusive easement assignable in whole or in part upon, over, and along rights of way sixty (60) feet in width, over and across Government Lot 5, Section 6, Township 37 North, Range 6 East, W.M., N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , Section 33, Township 38 North, Range 6 East, W.M. in Whatcom County, Washington, being thirty (30) feet on each side of the center line(s) of a road or roads located approximately as shown in red on the attached "Exhibit A."

Subject as to said lands to all matters of public record.

Georgia-Pacific and the State agree the right of way sixty (60) feet in width, over and across the S $\frac{1}{2}$ NW $\frac{1}{4}$ , Section 33, Township 38 North, Range 6 East, W.M., in Whatcom County, Washington, being (30) feet on each side of the centerline of a road located approximately as shown in green on the attached "Exhibit A," be deleted from the Original Easement.

State shall make arrangements to pay to Georgia-Pacific the sum of \$6,837.96. It is the intention of State, in the management of State's lands in the easement area, to make available for purchase as soon as is practical and in accordance with R.C.W. 79.01.184, that timber which is mature and ready for harvest so that the obligation incurred by State hereunder may be extinguished within a period of five (5) years from the date hereof.

In the event that Georgia-Pacific is the successful purchaser of a State timber sale in said area, payment at the same rate as would have been paid by any other purchaser shall be credited and included as payment on the total State obligation.

State may accelerate the payment of the unpaid balance of the total sum set forth above with appropriated or other funds if such become available.

When Georgia-Pacific has received the sum of \$6,837.96, no further payment shall be required of purchasers of State timber, or other valuable materials, pursuant to this Agreement and State shall thereafter have free use of said road system, except for pro rata share of maintenance, replacement and improvement as set forth in Part II of the Original Easement.

Except as herein supplemented all of terms, conditions and reservations of the Original Easement shall remain in full force and effect.

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55-000022

IN WITNESS WHEREOF, the parties hereto have executed this instrument, in duplicate, as of the day and year first above written.

GEORGIA-PACIFIC CORPORATION

By [Signature]  
Chairman Title

Attest [Signature]  
Assistant Secretary Title

Affix Seal of Corporation

STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

By \_\_\_\_\_  
BERT L. COLE  
Commissioner of Public Lands

Affix Seal of Commissioner  
of Public Lands

cmr

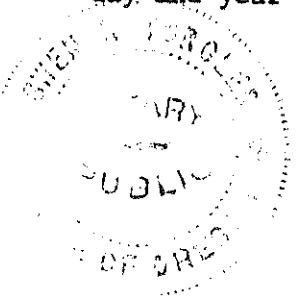
STATE OF Oregon )  
County of Multnomah ) ss

On this 1st day of March, 19 71, before me personally appeared Robert B. Pamplin and Frank G. Breuer, to me known to be the Chairman and Assistant Secretary, respectively, of Georgia-Pacific Corporation, the corporation that executed the within and foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

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

[Signature]  
Notary Public in and for the State of Oregon, residing at Portland.

NOTARY PUBLIC FOR OREGON  
My Commission Expires Nov. 13, 1972



1892640

STATE OF WASHINGTON )  
 ) ss  
COUNTY OF THURSTON )

On this 11 day of March, 19 11, before me personally appeared BERT L. COLE, to me known to be the Commissioner of Public Lands, and ex officio administrator of the Department of Natural Resources of the State of Washington, the Department that executed the within and foregoing instrument on behalf of the State of Washington, and acknowledged said instrument to be the free and voluntary act and deed of the State of Washington for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument and that the seal affixed is the official seal of the Commissioner of Public Lands for the State of Washington.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year set forth above.

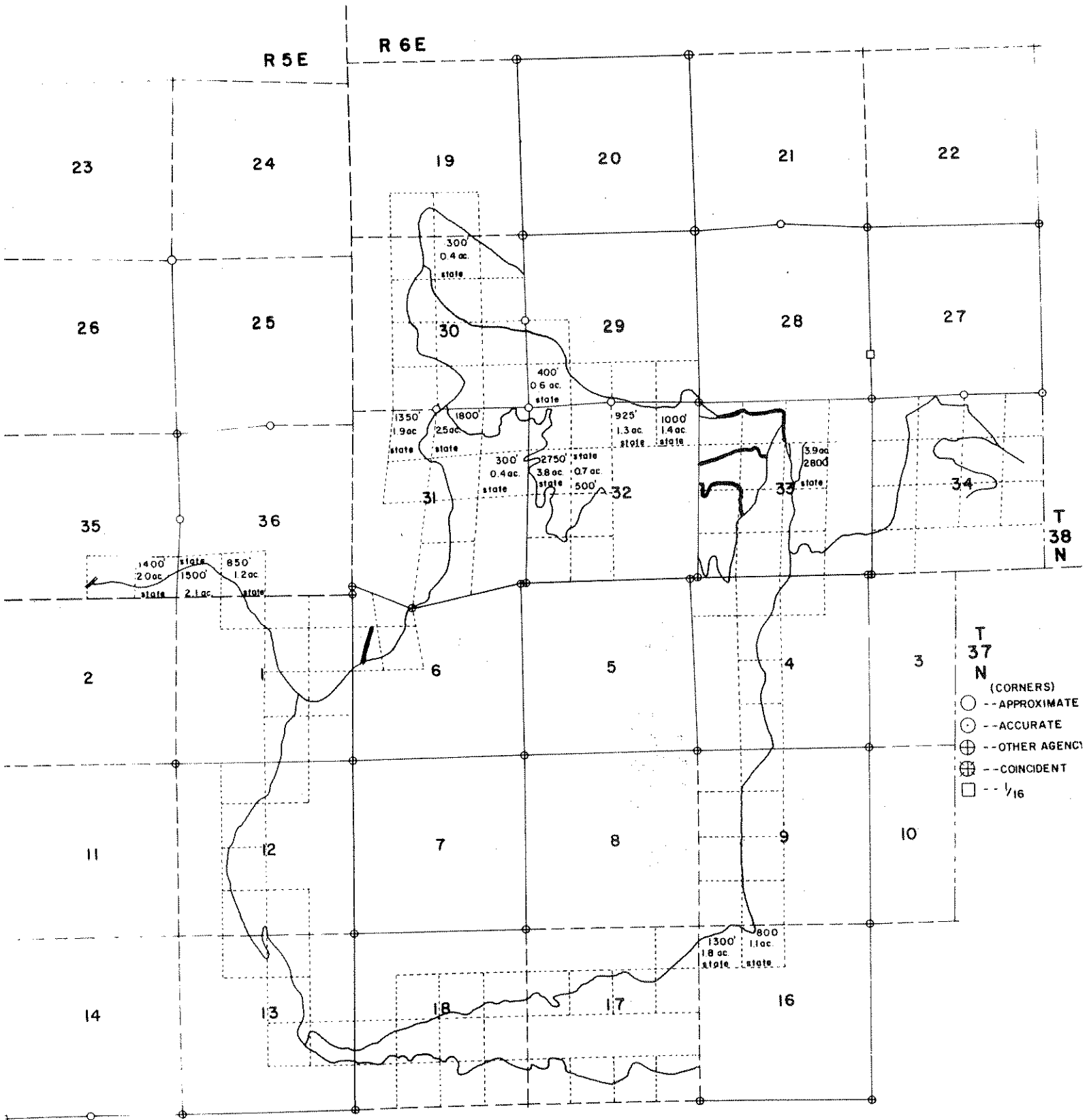
*Albert D. ...*

Notary Public in and for the State of Washington, residing at Olympia.

VOL 135 PAGE 110



# BLUE MOUNTAIN EASEMENT EXCHANGE



Vol 135 Page 267

EXHIBIT A

EASEMENT EXCHANGE

THIS AGREEMENT, made and entered into the 26<sup>th</sup> day of November, 1968, by and between GEORGIA-PACIFIC CORPORATION, a Georgia Corporation, herein called "Georgia-Pacific," and STATE OF WASHINGTON, acting by and through the Department of Natural Resources, herein called "State," WITNESSETH:

I

A. Georgia-Pacific, for and in consideration of the sum of \$48,952.00, payment of which is to be made in accordance with the terms and conditions of Part III, and of the grant hereinafter made by State, hereby grants and conveys to State, its successors and assigns, a permanent nonexclusive easement upon, over, and along rights of way 60 feet in width, over and across the lands in Whatcom County, Washington, specified on the attached "Exhibit A," being 30 feet on each side of the center lines of the existing roads located as shown in red on the attached "Exhibit C."

Subject as to said lands to all matters of public record including the rights granted by Georgia-Pacific to Anacortes Veneer, Inc., a corporation under that certain agreement dated December 13, 1965 and recorded in Volume 39 of Deeds, Page 85, records of Whatcom County, and further subject to rights as Georgia-Pacific owns or possesses in connection with said easement granted.

B. State, for and in consideration of the grant hereinabove made, hereby grants and conveys to Georgia-Pacific, its successors and assigns, a permanent nonexclusive easement upon, over, and along rights of way 60 feet in width over and across the lands in Whatcom County, Washington, specified on the attached "Exhibit B," being 30 feet on each side of the center lines of the existing roads located as shown in green on the attached "Exhibit C."

Subject as to said lands to all matters of public record.

II

The parties hereto hereby agree that the rights hereinabove granted by one party hereto to the other shall be subject to the following terms and conditions:

1. The easements are conveyed for the purpose of reconstruction, use, and maintenance of said existing roads for the purpose of hauling forest products and other valuable materials from lands now owned or hereafter acquired by the parties hereto and to provide access to said lands for land management and administrative activities.

Georgia Pacific BLUE MT. EASEMENT

2. Each party hereto reserves for itself, its successors and assigns, the right at all times and for any purpose to go upon, cross and recross at any place on grade or otherwise said rights of way on lands owned by it and use the roads on said rights of way in a manner that will not unreasonably interfere with the rights granted to the other party hereunder.

3. Each party hereto may grant to third parties, upon such terms as it chooses, any or all of the rights reserved by it herein; provided that use by such party shall be subject to the terms and conditions of this agreement and shall not unreasonably interfere with the rights granted to the other party hereunder.

4. Each party hereto may permit its respective contractors, licensees, purchasers of timber or other valuable materials, and their agents, hereinafter individually referred to as "Permittee" and collectively referred to as "Permittees," to exercise the rights granted to it herein; provided, that when a party hereto or one of its Permittees plans to use any portion of said roads for the purpose of hauling timber or other valuable materials, such party shall notify the other thereof at least fifteen days prior to the commencement of use of said rights, advising of the portion of road to be used, the approximate dates when such use will begin and end and of the approximate volumes of forest products or valuable materials to be hauled and forthwith upon the completion of such use notify the other party thereof.

5. The cost of road maintenance and resurfacing shall be allocated on the basis of respective uses of said roads. When any party uses a road, that party shall perform or cause to be performed, or contribute or cause to be contributed, that share of maintenance and resurfacing occasioned by such use as hereinafter provided. During periods when a road is being used solely by one party, such party shall maintain that portion of said road so used to the standards existing at the time use is commenced. During periods when more than one party is using the same road, or any portion thereof, the parties hereto shall meet and establish necessary maintenance provisions. Such provisions shall include, but shall not be limited to:

(a) the appointment of a maintainer, which may be one of the parties hereto or any third party, who will perform or cause to be performed at a reasonable and agreed upon rate the maintenance and resurfacing of the road or the portion thereof being used; and

(b) a method of payment by which each party using said road or a portion thereof, shall pay its pro rata share of the cost incurred by said maintainer in maintaining or resurfacing said road or portion thereof.

6. Each party using any portion of a road shall repair or cause to be repaired at its sole cost and expense that damage to said road occasioned by it which is in excess of that which it would cause through normal and prudent usage of said road. Should inordinate damage to a road occur which is not caused by an authorized user of said road, the parties hereto shall meet to agree upon the cost of replacement, the party to undertake the replacement, and the shares of replacement cost to be borne by each user of said road.

7. Unless the parties hereto agree in writing to share the costs of improvements in advance of such improvements being made, such improvements shall be solely for the account of the improver.

8. Each party hereto reserves to itself all timber now on or hereafter growing within the rights of way on its said lands.

9. Each party hereto shall require each of its Permittees, before using any of said roads on the lands of the other party hereto, to:

(a) obtain and during the term of such use maintain a policy of liability insurance in a form generally acceptable in the trade and customary in the area of said rights of way, insuring said Permittee against liability arising out of its operations, including use of vehicles. Minimum amounts of insurance shall be One Hundred Thousand Dollars (\$100,000.00) for injury to one person, Three Hundred Thousand Dollars (\$300,000.00) for any one occurrence, and Three Hundred Thousand Dollars (\$300,000.00) property damage for any one occurrence; and

(b) deliver to each party hereto a certificate from the insurer of said Permittee certifying that coverage is not less than the above named amounts is in force and that in the event of cancellation or modification of such coverage, the insurer will give each party hereto ten (10) days' written notice prior to any cancellation or modification.

III

NOW, THEREFORE:

A. State shall make arrangements to pay to Georgia-Pacific the sum of \$48,952.00, in addition to the rights granted to Georgia-Pacific by State, for the rights granted to State by Georgia-Pacific in the Easement. It is the intention of

State, in the management of State's lands in the easement area, to make available for purchase as soon as is practical and in accordance with R.C.W. 79.01.184, that timber which is mature and ready for harvest so that the obligation incurred by State hereunder may be extinguished within a period of five (5) years from the date hereof.

B. It is understood between the parties that, unless covered by prior written offers or existing road use permits to successful purchasers in said easement area, State shall cause the successful purchasers of State sales in said area to pay to Georgia-Pacific a minimum sum of \$5.00 per thousand board feet of timber hauled over said road system by such purchasers. Such payments shall be credited against State's obligation hereunder.

C. In the event that Georgia-Pacific is the successful purchaser of a State timber sale in said area, payment at the same rate as would have been paid by any other purchaser shall be credited and included as payment on the total State obligation.

D. State may accelerate the payment of the unpaid balance of the total sum set forth in Paragraph III A. with appropriated or other funds if such become available.

E. When Georgia-Pacific has received the sum of \$48,952.00, no further payment shall be required of purchasers of State timber, or other valuable materials, pursuant to this Agreement and State shall thereafter have free use of said road system, except for pro rata share of maintenance, replacement and improvement as set forth in Part II.

IN WITNESS WHEREOF, the parties hereto have executed this instrument, in duplicate, as of the day and year first above written.

GEORGIA-PACIFIC CORPORATION

By Robert G. Lowmeyer

Attest Mary A. McLeod Secretary

STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

By Bert L. Cole  
BERT L. COLE  
Commissioner of Public Lands

Approved as to Form Only

20th Nov 1968

By [Signature]  
Assistant Secretary

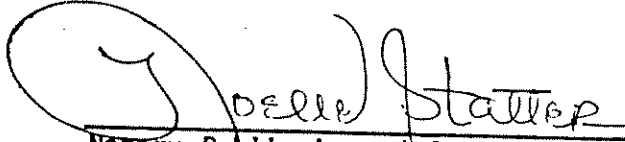
dw

PROOF READ [Signature]

STATE OF OREGON )  
 )  
COUNTY OF MULTNOMAH ) ss.

On this 8th day of November, 1968, before me the under-  
signed, a Notary Public in and for said County and State, personally appeared  
Robert E. Flowerree and Mary A. McCravey, known to me to be ~~the~~ an  
Executive Vice President and Secretary of Georgia-Pacific Corporation,  
the Corporation that executed the within instrument, known to me to be the persons who  
executed the within instrument, on behalf of the Corporation therein named, and  
acknowledged to me that such Corporation executed the within instrument pursuant to  
its bylaws or a resolution of its Board of Directors.


WITNESS my hand and Official Seal,

  
\_\_\_\_\_  
Notary Public in and for said County  
and State.  
My commission expires: May 12, 1972

STATE OF WASHINGTON )  
 )  
COUNTY OF THURSTON ) ss.

On this 26th day of November, 1968, before me personally  
appeared BERT L. COLE, to me known to be the Commissioner of Public Lands, and  
ex officio administrator of the Department of Natural Resources of the State of  
Washington, the Department that executed the within and foregoing instrument on  
behalf of the State of Washington, and acknowledged said instrument to be the  
free and voluntary act and deed of the State of Washington for the uses and  
purposes therein mentioned, and on oath stated that he was authorized to execute  
said instrument and that the seal affixed is the official seal of the Commissioner  
of Public Lands for the State of Washington.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and  
year set forth above.

  
\_\_\_\_\_  
Notary Public in and for the State of  
Washington, residing at Olympia.

Georgia Pacific Lands

Gov't Lot 3,  $W\frac{1}{2}E\frac{1}{2}$ ,  $NE\frac{1}{4}SE\frac{1}{4}$  and  $SE\frac{1}{4}NE\frac{1}{4}$ ,  
 $NW\frac{1}{4}NE\frac{1}{4}$ ,  $E\frac{1}{2}W\frac{1}{2}$  and  $SW\frac{1}{4}SE\frac{1}{4}$ ,  
 $NE\frac{1}{4}NW\frac{1}{4}$ ,  $W\frac{1}{2}NE\frac{1}{4}$  and  $N\frac{1}{2}SE\frac{1}{4}$ ,

$SW\frac{1}{4}SE\frac{1}{4}$ ,

Gov't Lots 2 and 4,  $E\frac{1}{2}W\frac{1}{2}$ ,  
 $S\frac{1}{2}NW\frac{1}{4}$ ,  
 $NW\frac{1}{4}$ ,  $N\frac{1}{2}SW\frac{1}{4}$  and  $SE\frac{1}{4}SW\frac{1}{4}$ ,  
 $NE\frac{1}{4}NE\frac{1}{4}$ ,  $S\frac{1}{2}N\frac{1}{2}$  and  $S\frac{1}{2}S\frac{1}{2}$ ,  
 $S\frac{1}{2}NE\frac{1}{4}$ ,  $SE\frac{1}{4}NW\frac{1}{4}$  and  $S\frac{1}{2}$ ,

$SW\frac{1}{4}SW\frac{1}{4}$ ,  
 $S\frac{1}{2}SE\frac{1}{4}$ ,  $SE\frac{1}{4}SW\frac{1}{4}$  and  $NW\frac{1}{4}SW\frac{1}{4}$ ,  
 $SW\frac{1}{4}SE\frac{1}{4}$ ,  $NE\frac{1}{4}SE\frac{1}{4}$ ,  $NE\frac{1}{4}NE\frac{1}{4}$ ,  
 $E\frac{1}{2}NW\frac{1}{4}$  and  $NE\frac{1}{4}SW\frac{1}{4}$ ,  
 $SW\frac{1}{4}NE\frac{1}{4}$ ,  $W\frac{1}{2}SE\frac{1}{4}$  and  $SE\frac{1}{4}NW\frac{1}{4}$ ,  
 $W\frac{1}{2}SW\frac{1}{4}$  and  $NE\frac{1}{4}SW\frac{1}{4}$ ,  
 $S\frac{1}{2}SE\frac{1}{4}$ ,  $NW\frac{1}{4}SE\frac{1}{4}$  and  $W\frac{1}{2}$ ,  
 $W\frac{1}{2}W\frac{1}{2}$ ,  $E\frac{1}{2}NW\frac{1}{4}$ ,  $W\frac{1}{2}NE\frac{1}{4}$ ,  $SE\frac{1}{4}NE\frac{1}{4}$  and  
 $NW\frac{1}{4}SE\frac{1}{4}$ ,

Section 1, Township 37 North, Range 5 East, W.M.  
Section 12, Township 37 North, Range 5 East, W.M.  
Section 13, Township 37 North, Range 5 East, W.M.

Section 35, Township 38 North, Range 5 East, W.M.

Section 4, Township 37 North, Range 6 East, W.M.  
Section 6, Township 37 North, Range 6 East, W.M.  
Section 9, Township 37 North, Range 6 East, W.M.  
Section 17, Township 37 North, Range 6 East, W.M.  
Section 18, Township 37 North, Range 6 East, W.M.

Section 28, Township 38 North, Range 6 East, W.M.  
Section 29, Township 38 North, Range 6 East, W.M.

Section 30, Township 38 North, Range 6 East, W.M.  
Section 31, Township 38 North, Range 6 East, W.M.  
Section 32, Township 38 North, Range 6 East, W.M.  
Section 33, Township 38 North, Range 6 East, W.M.

Section 34, Township 38 North, Range 6 East, W.M.

State Lands

$SE\frac{1}{4}SE\frac{1}{4}$ ,  
 $S\frac{1}{2}SW\frac{1}{4}$ ,

$N\frac{1}{2}NW\frac{1}{4}$ ,

$SW\frac{1}{4}SW\frac{1}{4}$ ,  
 $NW\frac{1}{4}NE\frac{1}{4}$ ,  
 $NE\frac{1}{4}NW\frac{1}{4}$ ,  $NW\frac{1}{4}NE\frac{1}{4}$  and  $SE\frac{1}{4}NE\frac{1}{4}$ ,  
 $S\frac{1}{2}NW\frac{1}{4}$  and  $N\frac{1}{2}NE\frac{1}{4}$ ,  
 $SW\frac{1}{4}NE\frac{1}{4}$ ,

Section 35, Township 38 North, Range 5 East, W.M.  
Section 36, Township 38 North, Range 5 East, W.M.

Section 16, Township 37 North, Range 6 East, W.M.

Section 29, Township 38 North, Range 6 East, W.M.  
Section 30, Township 38 North, Range 6 East, W.M.  
Section 31, Township 38 North, Range 6 East, W.M.  
Section 32, Township 38 North, Range 6 East, W.M.  
Section 33, Township 38 North, Range 6 East, W.M.

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COMMISSIONER OF PUBLIC LANDS

MAY 11 1896

EXHIBIT "B"

REGISTERED



# BLUE MOUNTAIN EASEMENT EXCHANGE

SCALE = 1:24,000

