

Washington DNR Timber Sales Program

The documents for the Rockit Launch SWT Timber Sale #30-106713 have been changed as follows:

Documents amended:

Brief Description	DATE	Initials
Timber Notice of Sale Fees: Per ton due upon removal has been updated from \$9.00 to \$1.08.	1/22/2025	DB



TIMBER NOTICE OF SALE

SALE NAME: ROCKIT LAUNCH SWT

AGREEMENT NO: 30-106713

AUCTION: February 25, 2025 starting at 10:00 a.m., **COUNTY:** Pierce, Lewis
South Puget Sound Region Office, Enumclaw, WA

SALE LOCATION: Sale located approximately 1 mile west of Ashford, WA.

**PRODUCTS SOLD
AND SALE AREA:**

All timber, as described in Schedule A, except snags, and down timber existing from the day of sale bounded by the following: white Timber Sale Boundary tags, property line marked with white Carsonite posts and County Road 390 in Units #1 and #2; white Timber Sale Boundary tags, property line marked with white Carsonite posts and the 36T Road in Unit #3; white Timber Sale Boundary Tags, Kernahan Road East and 36T Road in Unit #4; white Timber Sale Boundary tags in Unit #5; white Timber Sale Boundary tags and the 11 Road in Unit #6; white Timber Sale Boundary tags and the 2 Road in Units #7 and #8; white Timber Sale Boundary tags and the 1 and 2 Roads in Unit #9;

All timber bounded by orange Right-of-Way Boundary tags, except that title to the timber within the right of way tags is not conveyed to the Purchaser unless the road segment is actually constructed/reconstructed in right of way Unit #10;

All forest products above located on part(s) of Sections 3 and 4 all in Township 14 North, Range 6 East, Sections 28, 29, 33 and 36 all in Township 15 North, Range 6 East, W.M., containing 281 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227) and FSC 100% raw materials under the Forest Stewardship Council® Standard (cert no: BV-FM/COC-080501).

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg Ring DBH	Ring Count	Total MBF	Total Tons	Price \$/Ton	MBF by Grade								
						1P	2P	3P	SM	1S	2S	3S	4S	UT
Douglas fir	14.7	4	1,110	9,459	\$11.30						5	883	218	4
Cottonwood	14.8		289	2,127	\$2.00						7		282	
Red alder	11.9		223	1,855	\$4.00								223	
Grand fir	11.6		130	1,157	\$2.00						4	78	48	
Hemlock	11.2		54	497	\$2.00							42	11	1
Redcedar					\$103.00									
Other Conifer					\$2.00									
Other Hardwood					\$2.00									
Sale Total			1,806	15,095										

MINIMUM BID: \$11.3/ton (est. value \$121,000.00) **BID METHOD:** Sealed Bids

PERFORMANCE SECURITY: \$100,000.00 **SALE TYPE:** Tonnage Scale

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

BIDDABLE SPECIES: Douglas fir

BID DEPOSIT: \$12,100.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.



TIMBER NOTICE OF SALE

HARVEST METHOD: Harvest methods are estimated to be 100 percent ground based harvest. Ground based equipment, with cable-tethered equipment limited to sustained slopes of 75 percent or less, self-leveling equipment limited to sustained slopes of 65 percent or less, and any ground based equipment limited to sustained slopes or 45 percent or less. Yarding may be restricted during wet weather if rutting becomes excessive, per clause H-017.

Falling and yarding shall not be permitted on weekends or State recognized holidays in all units, and weekdays between 7 p.m. and 6 a.m. in Units #1 and #2, unless approved in writing by the Contract Administrator.

ROADS: 16.41 stations of optional construction. 17.64 stations of optional reconstruction. 444.15 stations of required prehaul maintenance. 3.50 stations of optional prehaul maintenance. 34.05 stations of abandonment, if built. Purchaser maintenance on the 11, 11-1, Zig Zag Pit Road, 2-1, 36T, and 36T4 roads, and County Road 390. Designated maintenance on all roads used.

Rock can be obtained from the State owned Zig Zag Pit at no cost to the Purchaser or any commercial rock source at the Purchaser's expense, except for rock for County Road 390 must be obtained from a commercial rock source. Purchaser shall obtain written approval from the Contract Administrator for the use of material from any other source. Rock source development is to be completed per Section 6 and as specified in the Rock Source Development Plan in the Road Plan.

Operation of road construction equipment and rock haul will not be permitted from November 1 to May 15, nor on weekends or State recognized holidays, unless authority to do so is granted, in writing from the Contract Administrator. If permission is granted to operate from November 1 to May 15, the Purchaser shall comply with a maintenance plan, when a maintenance plan is determined necessary by the Contract Administrator, to include further protection of State resources per Road Plan clause 1-26.

The hauling of forest products will not be permitted from November 1 to May 15 unless authorized in writing by the Contract Administrator, nor on weekends or State recognized holidays. If permission is granted to operate from November 1 to May 15, preventive measures may be required to protect water, soil, roads and other forest assets.

ACREAGE DETERMINATION

CRUISE METHOD: Acreage for all units determined by traversing boundaries by GPS and by multiplying length times width. GPS data files are available at DNR's website for timber sale auction packets. See cruise narrative for cruise method.

FEES: \$30,702.00 is due on day of sale. \$1.08 per ton is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Units #1- #9 are small wood thinning units that will be harvested per contract Schedules A and B. 269 trees are designated for down wood requirements as part of the riparian thinning prescription in Units #1, #3, #4, #5, #6, #7, #8, and #9 per contract Schedule C. Only some of the down woody debris (DWD) recruits in Units #3, #7, and #8 are designated that may be felled into streams. Other designated trees can be felled into the harvest unit. The reason for this is the presence of potentially unstable slopes in many areas. It is for this reason that the Contract Administrator must be present during DWD creation operations in Units #7 and #8.

This sale includes extreme hazard abatement according to WAC 332-24-650 per contract clause S-020.



TIMBER NOTICE OF SALE

No equipment shall operate within 25 feet of white Timber Sale Boundary tags adjacent to Type 1, 3, and 4 streams in Units #1, #3, #4, #5, #6, #7, #8, and #9 or within 50 feet of blue flagging delineating wetlands in Units #1, #2, #8, and #9.

Trees are to be felled away from structures, utilities, private property, and county roads.

Landings shall be built a minimum of 50 feet off the 1, 2, 11, and County Road 390.

Purchaser to acquire, install, and maintain "Active Logging Ahead" signs to 1, 2, 11, 36T, and County Road 390. See Road Plan clause 7-1.

The 36T and 36T-4 roads are being used for timber haul by another landowner and may be used during the contract term. The Purchaser shall not block the 1, 2, 36T, 36T-4 and County Road 390.

County Road 390 may only be accessed from 282nd Ave E. No use of the bridge to the west of Unit #1 is allowed.

Purchaser must enter into General Right of Way (ROW) Permit #080624-A with Pierce County Public Works for County Road 390. This has already been initiated and paid for by DNR and needs to be signed by the road contractor. A copy of the signed permit will need to be provided to the Contract Administrator. As required in the ROW Permit and the Road Plan, Purchaser is required to locate utilities prior to any road work can take place on County Road 390. If permit expires prior to completing work, Purchaser is responsible for obtaining a current permit.

The Mount Tahoma Trail Association plows the 1 Road between December and March for access to Sno-Parks.

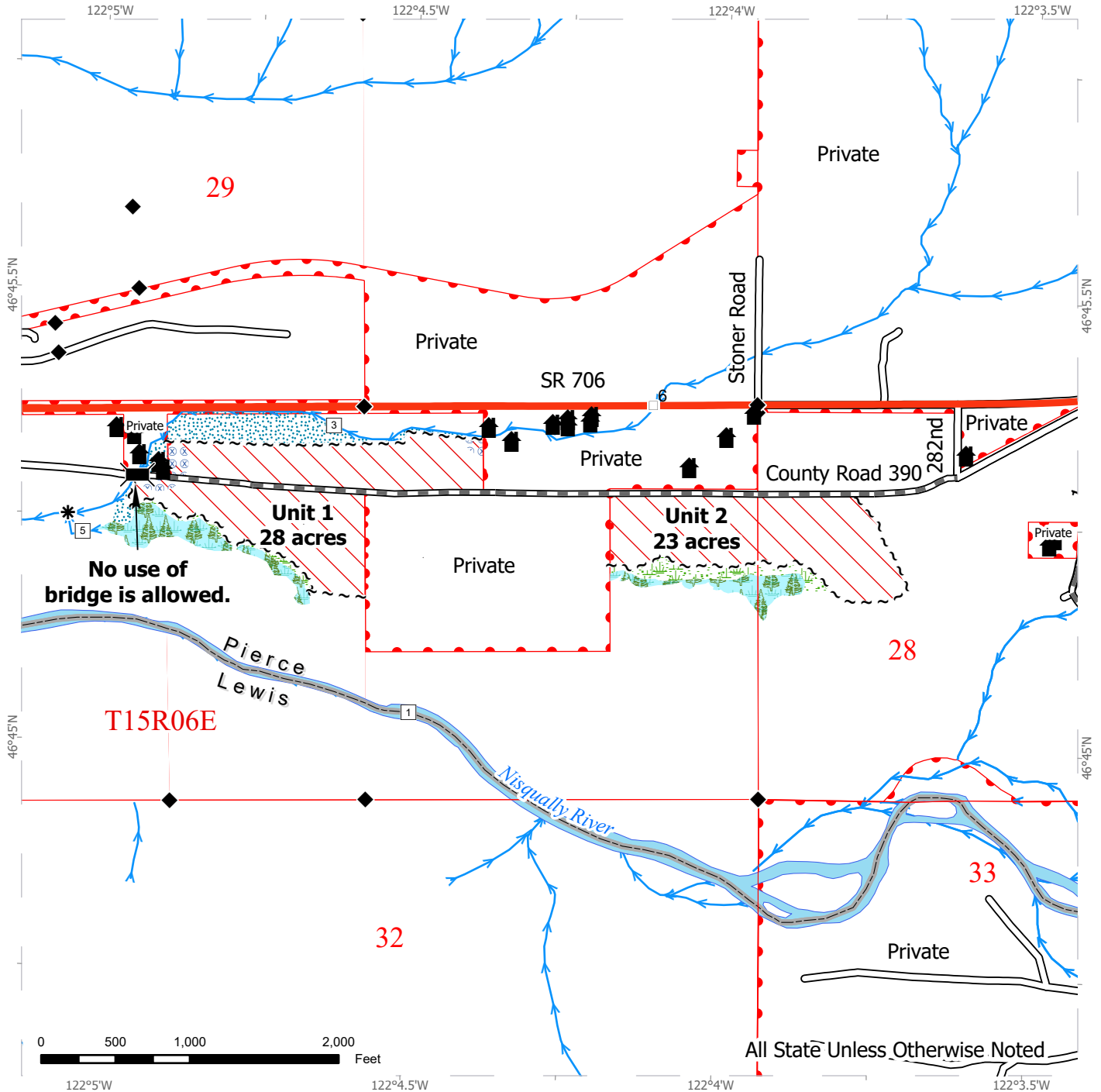
Note to cruisers and appraisers: Please refrain from leaving pink, orange, or blue flagging from your cruises in or around the sale area to avoid confusion with DNR's marking. Additionally, for the safety of the public, please remove from roads all string from string boxes used during appraising or cruising this sale.

See map for gate locations. Gate keys may be obtained by contacting the South Puget Sound Region Office at 360-825-1631 or by contacting Austin Haworth at 360-552-8957.

TIMBER SALE MAP

SALE NAME: ROCKIT LAUNCH SWT
AGREEMENT #: 30-106713
TOWNSHIP(S): T14R6E, T15R6E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Lewis, Pierce
ELEVATION RGE: 1600-2080

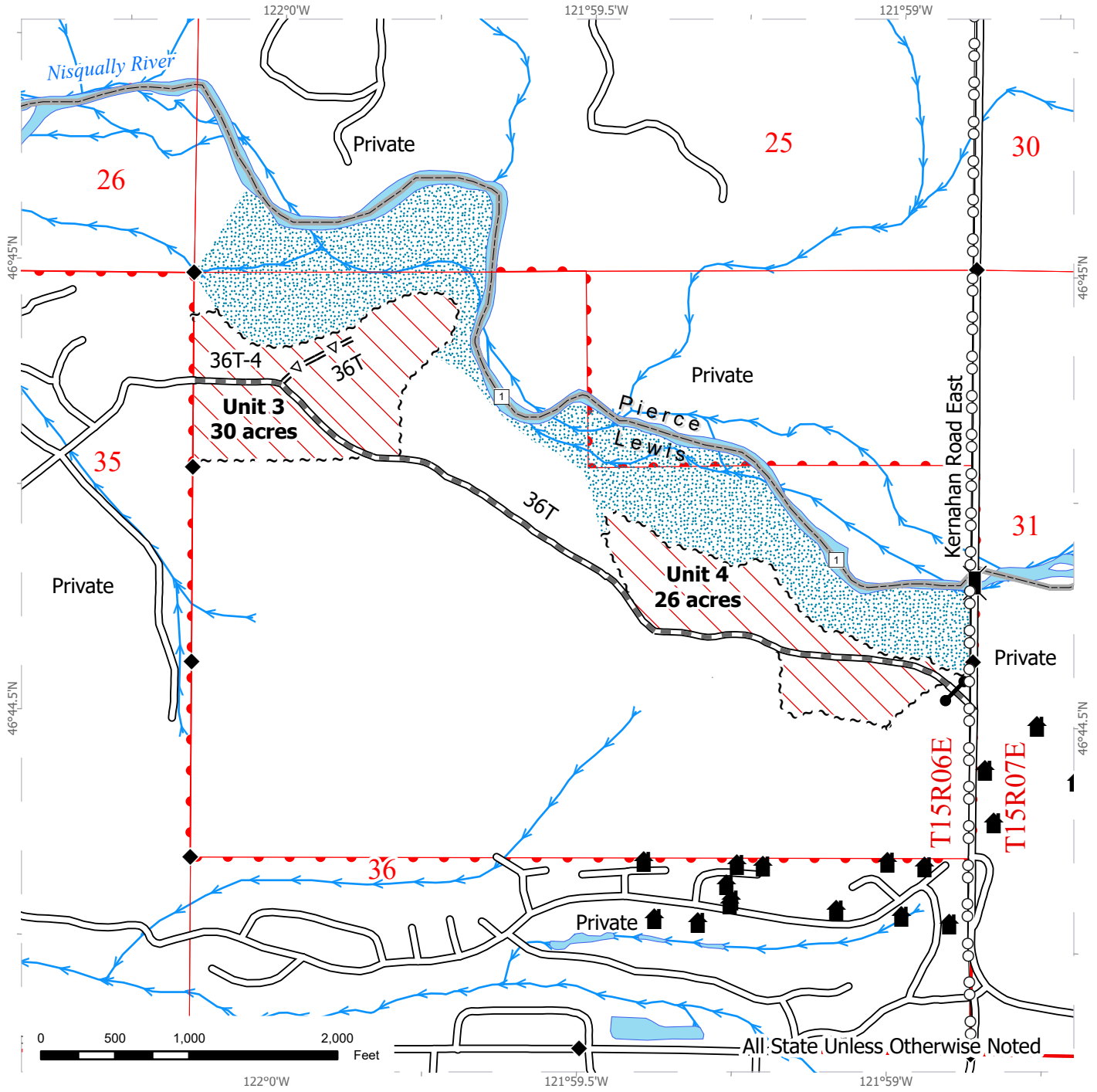


Sale Area	Streams	Survey Monument
Timber Sale Boundary Tags	Forested Wetland	Stream Type
Property Line	Wetland Mgt Zone	Stream Break
Highway	Riparian Mgt Zone	Bridge
Existing Roads	Hazard Abatement Area	Structure
Required Pre-Haul Maintenance	County Boundaries	adjacent_timber

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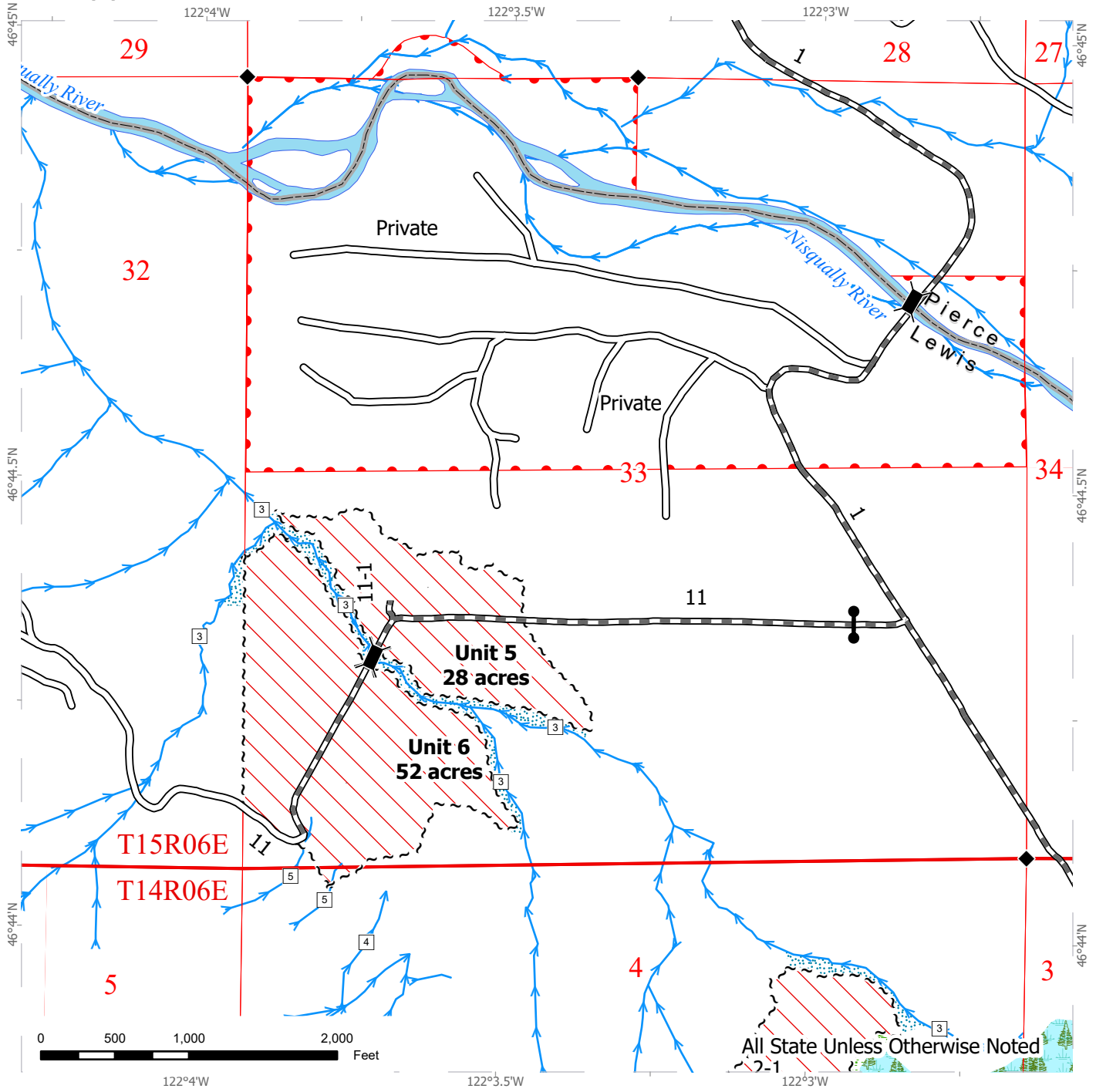
Sale Area	Timber Sale Boundary Tags	Property Line	Existing Roads	Required Pre-Haul Maintenance	Optional Pre-Haul Maintenance	Streams	Riparian Mgt Zone	County Boundaries	Survey Monument	Stream Type	Power Lines	Bridge	Gate	Structure
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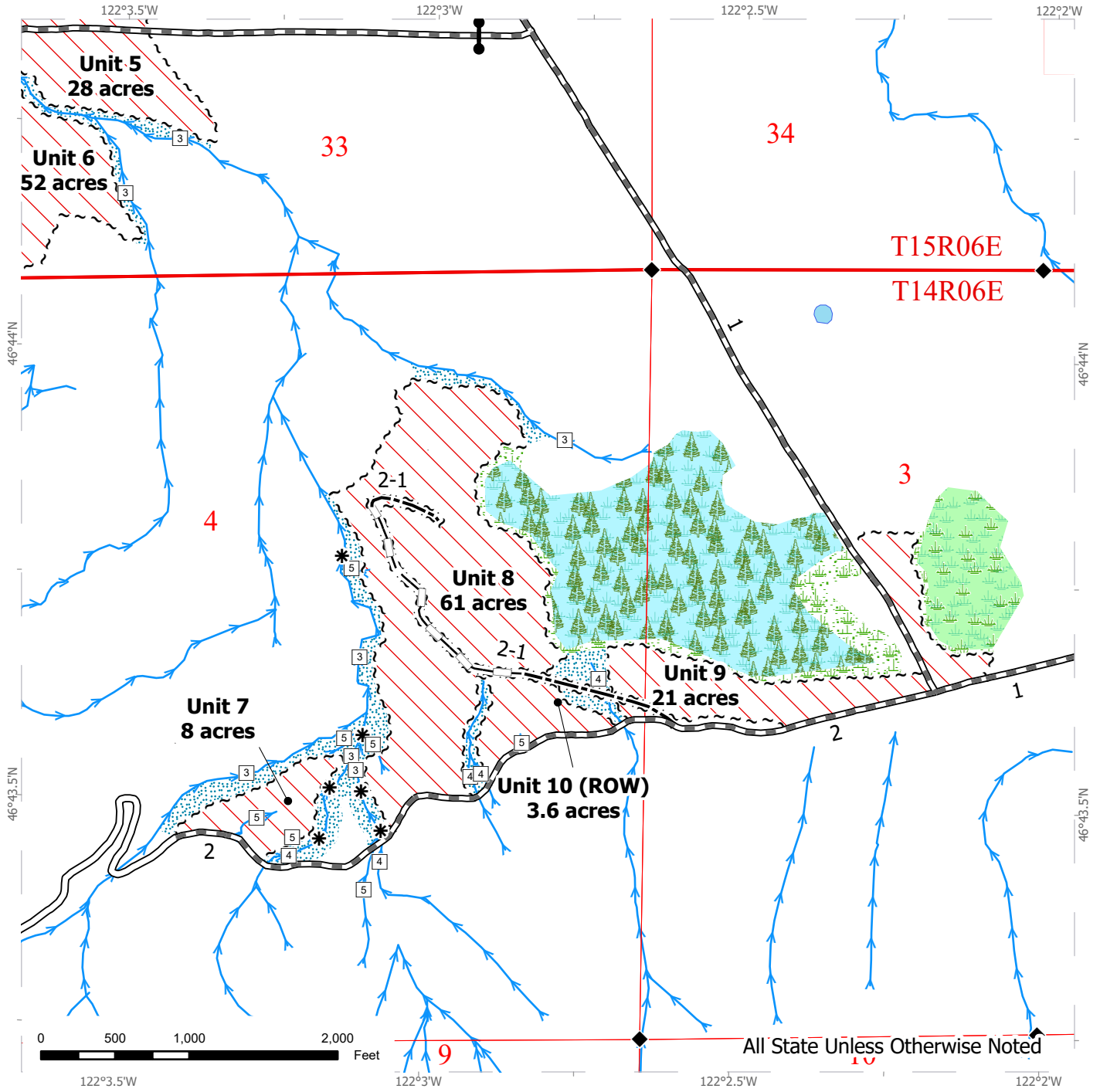
All State Unless Otherwise Noted

Sale Area	Streams	Stream Type
Timber Sale Boundary Tags	Forested Wetland	Bridge
Right of Way Tags	Wetland Mgt Zone	Gate
Existing Roads	Riparian Mgt Zone	adjacent_timber
Required Pre-Haul Maintenance	County Boundaries	
Optional Construction	Survey Monument	

TIMBER SALE MAP

SALE NAME: ROCKIT LAUNCH SWT
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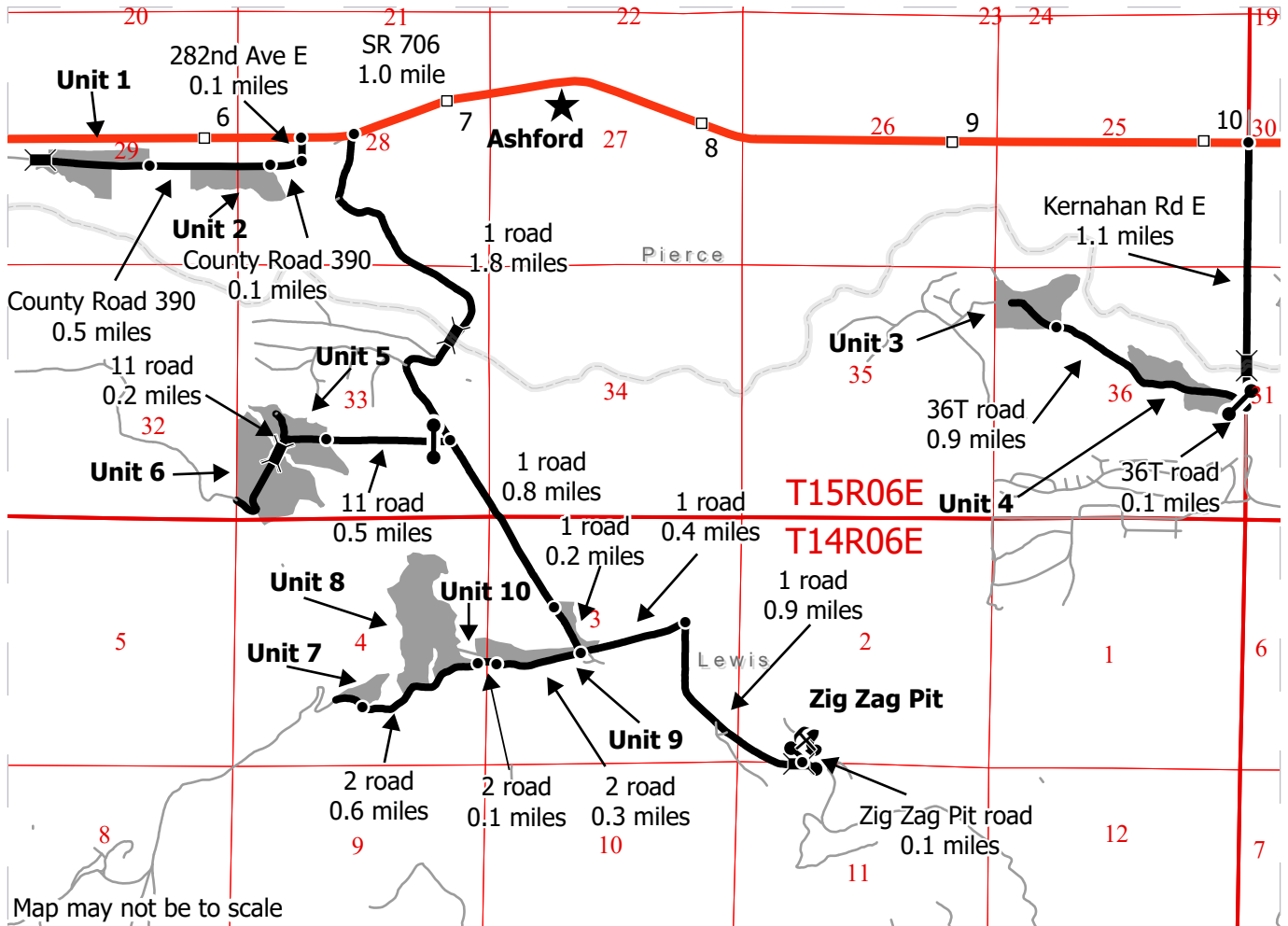
Sale Area	Optional Reconstruction	County Boundaries
Timber Sale Boundary Tags	Streams	Survey Monument
Right of Way Tags	Wetlands - Non-forested	Stream Type
Existing Roads	Forested Wetland	Stream Break
Required Pre-Haul Maintenance	Wetland Mgt Zone	Gate
Optional Construction	Riparian Mgt Zone	



DRIVING MAP

SALE NAME: ROCKIT LAUNCH SWT
AGREEMENT #: 30-106713
TOWNSHIP(S): T14R6E, T15R6E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Lewis, Pierce
ELEVATION RGE: 1600-2080



- Sale Area
- Highway
- Haul Route
- Other Route
- Milepost Marker
- Distance Indicator
- ▬ Bridge
- Gate (383)
- ⛏ Rock Pit
- ★ Town
- County Boundaries

DRIVING DIRECTIONS:

Units 1 and 2:
 From Ashford follow SR-706 west for 1 mile. Turn left onto 282nd Ave E and follow for 0.1 miles. Turn right onto County Road 390 and follow for 0.1 miles to reach Unit 2. Continue on County Road 390 for 0.5 miles to reach Unit 1.

Units 3 and 4:
 From Ashford follow SR-706 east for 2.1 miles. Turn right onto Kernahan Rd E and follow for 1.1 miles. Turn right onto the 36T road and follow for 0.1 miles to reach Unit 4. Continue on the 36T road for 0.9 miles to reach Unit 3.

Units 5 and 6:
 From Ashford follow SR-706 west for 1 mile. Turn left onto the 1 road and follow for 1.8 miles. Turn right onto the 11 road and follow for 0.5 miles to reach Unit 5. Continue on the 11 road for 0.2 miles to reach Unit 6.

Units 7, 8, 9, and 10:
 From the junction of the 1 and 11 roads, continue on the 1 road for 0.8 miles to reach Unit 9. Continue on the 1 road for 0.2 miles. Turn right on the 2 road and follow for 0.3 miles to reach Unit 10. Continue on the 2 road for 0.1 miles to reach Unit 8. Continue on the 2 road for another 0.6 miles to reach Unit 7.

Zig Zag Pit:
 From the junction of the 1 and 2 roads, turn left to continue on the 1 road for 0.4 miles. Turn right to continue on the 1 road for another 0.9 miles. Turn left onto Zig Zag Pit road and follow for 0.1 miles to reach Zig Zag Pit.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Tonnage Scale AGREEMENT NO. 30-106713

SALE NAME: ROCKIT LAUNCH SWT

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-010 Products Sold and Sale Area

Purchaser was the successful bidder on February 25, 2025 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase, cut, and remove the following forest products: All timber, as described in Schedule A, except snags, and down timber existing from the day of sale bounded by the following: white Timber Sale Boundary tags, property line marked with white Carsonite posts and County Road 390 in Units #1 and #2; white Timber Sale Boundary tags, property line marked with white Carsonite posts and the 36T Road in Unit #3; white Timber Sale Boundary Tags, Kernahan Road East and 36T Road in Unit #4; white Timber Sale Boundary tags in Unit #5; white Timber Sale Boundary tags and the 11 Road in Unit #6; white Timber Sale Boundary tags and the 2 Road in Units #7 and #8; white Timber Sale Boundary tags and the 1 and 2 Roads in Unit #9;

All timber bounded by orange Right-of-Way Boundary tags, except that title to the timber within the right of way tags is not conveyed to the Purchaser unless the road segment is actually constructed/reconstructed in right of way Unit #10;

All forest products described above located on approximately 281 acres on part(s) of Sections 3, and 4 all in Township 14 North, Range 6 East, Sections 28, 29, 33, and 36 all in Township 15 North, Range 6 East W.M. in Pierce, and Lewis County(s) as shown on the attached timber sale map and as designated on the sale area.

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

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

G-020 Inspection By Purchaser

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

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
A	Harvest Prescription for Units #1-9
B	Prescription Compliance in Units #1-9
C	Recruitment of Downed Wood in Units #1, #3-9

G-030 Contract Term

Purchaser shall remove the forest products conveyed and complete all work required by this contract prior to October 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-050 Contract Term Extension - Payment

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

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

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

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

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

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

- e. Payment of \$3.00 per acre per annum for the acres on which an operating release has not been issued in the harvest 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.

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-090 Sale Area Adjustment

The Parties may agree to adjustments in the sale area boundary. The cumulative changes to the sale area during the term of the contract shall not exceed more than four percent of the original sale area. If the sale area is increased, added forest products become a part of this contract and shall be paid for at the same rate and manner as other forest products under this contract.

G-100 Forest Products Not Designated

Any forest products not designated for removal, which must be removed in the course of operations authorized by the State, shall be approved and designated by the Contract Administrator. Added forest products become a part of this contract and shall be paid for at the same rate and manner as other forest products under this contract.

G-110 Title and Risk of Loss

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

G-115 Forest Stewardship Council® (FSC® C012959) Certification

Forest products purchased under this contract are FSC 100% certified as being in conformance with the Forest Stewardship Council Forest Management Standard under certificate number: BV-FM/COC-080501.

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 Enumclaw, 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; the 1, 2, 2-1, 36T, 36T-4, 11, 11-1, Zig Zag Pit Roads, and County Road 390 between 282nd Road and. west boundary of Unit #1. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before beginning any operations. To the extent that the plan of operations is inconsistent with the contract, the terms of the contract shall prevail. State's acceptance and approval of Purchaser's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

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

G-360 Road Use Reservation

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

G-370 Blocking Roads

Purchaser shall not block the 1 Road, 2 Road, 36T, 36T-4 and County Road 390, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

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

Easement 55-001037 entered into between Burlington Northern, Inc and the State of Washington, Department of Natural Resources, dated February 4, 1974.

General Right of Way Permit No. 080624-A with Pierce County Public Works for County Road 390.

G-396 Public Hauling Permit

The hauling of forest products, rock or equipment may require a state, county, or city hauling permit. Purchaser is responsible for obtaining any necessary permit and any costs associated with extra maintenance or repair levied by the permitting agency. Purchaser must provide the Contract Administrator with a copy of the executed permit.

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:

To be determined approximately one month prior to the day of sale.

Section P: Payments and Securities

P-010 Initial Deposit

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

P-024 Payment for Forest Products

Purchaser agrees to weigh all loads and pay the following rate per ton for forest products conveyed plus \$30,702.00 on day of sale and \$9.00 per ton upon removal in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause.

DATA MISSING

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

P-027 Payment for Removal of Optional Forest Products

Purchaser agrees to weigh all loads and pay the rate of \$2.00 per ton for forest products approved for removal from the sale area under clause H-157.

P-040 Weighing and Scaling Costs

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

P-045 Guarantee of Payment

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

P-052 Payment Procedure

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

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

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

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

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

P-080 Payment Account Refund

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

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$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 L: Log Definitions and Accountability**L-060 Load Tickets**

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

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

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

L-071 Log and Load Reporting Service

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

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

L-110 State Approval of Log Scaling and Weighing Locations

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

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

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

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

H-011 Certification of Fallers and Yarder Operators

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

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

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

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

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

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

When reserve tree damage exceeds the limits set forth in clause H-013, Purchaser shall be subject to liquidated damages (clause D-041).

H-012 Leave Tree Damage Definition

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

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

- a. A leave tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 144 square inches.
- b. A leave tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A leave tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

If the Contract Administrator determines that a leave tree has been cut or damaged, the Purchaser may be required to pay liquidated damages for Excessive Leave Tree Damage as detailed in clause D-040.

H-015 Skid Trail Requirements

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

Purchaser shall comply with the following during the yarding operation:

- a. Skid trails will not exceed 12 feet in width, including rub trees.
- b. Skid trails shall not cover more than 10 percent of the total acreage on one unit.
- c. Skid trail location will be pre-approved by the Contract Administrator.
- d. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.
- e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.
- f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.
- g. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.

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

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 12 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-025 Timing Requirements for Timber Removal

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

H-030 Timber Falling

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

H-035 Fall Trees Into Sale Area

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

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for all units. The plan shall address the harvest requirements related to the thinning prescription, skid trail locations, landing locations, down wood creation, and extreme hazard abatement, if created, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval by the Contract Administrator.

H-050 Rub Trees

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

H-052 Branding and Painting

Forest products shall be branded with a brand furnished by the State prior to removal from the landing. All purchased timber shall be branded in a manner that meets the requirements of WAC 240-15-030(2)(a)(i). All timber purchased under a contract designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

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

H-060 Skid Trail Locations

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

H-080 Snags Not to be Felled

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

H-110 Stump Height

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using ground based equipment, with cable-tethered equipment limited to sustained slopes of 75 percent or less, self-leveling equipment limited to sustained slopes of 65 percent or less, and any ground based equipment limited to sustained slopes or 45 percent 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-130 Hauling Schedule

The hauling of forest products will not be permitted from November 1 to May 15, nor on weekends or State recognized holidays unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

A. Falling and yarding shall not be permitted on weekends or State recognized holidays in all units. In addition, falling and yarding shall not be permitted weekdays from 7 p.m. to 6 a.m. in Units #1 and #2.

B. Trees are to be directionally felled away from structures, utilities, private property, and county roads.

C. Any existing downed trees or logs yarded to the landing shall be returned to their original locations.

D. Equipment limitation zones are required within 30 feet of Type 5 streams.

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

F. Any and all operations associated with this sale may be temporarily suspended when, in the opinion of the Contract Administrator, there is the potential for delivery to typed water.

G. Landings shall be constructed in locations, and with drainage, that does not contribute sediment to typed water.

H. Do not have more than two skid trails open to active skidding at any one time.

I. In the event operations become inactive for long periods of time, skid trails shall be water barred prior to completion of yarding tributary timber, and drainage from landings improved, to prevent water accumulation and sediment movement, if required by the Contract Administrator.

J. Once a skid trail is closed, the Purchaser shall not reopen a skid trail unless approved in writing by the Contract Administrator.

K. Post "Safety" and "Active Logging Ahead" signs while operating in units associated with the 1, 2, 11, 36T, and County Road 390. See road plan clause 7-1.

L. Notify all employees and contractors working on this sale that any danger tree marked or unmarked may be felled. Any marked danger tree will be replaced with a suitable tree of similar size and species as approved by the Contract Administrator.

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. Purchaser must enter into the General Right of Way (ROW) Permit #080624-A with Pierce County Public Works for County Road 390. This has already been obtained and paid for by DNR and needs to be signed by the road contractor. A copy of the signed permit will need to be provided to the Contract Administrator. As required in the ROW Permit and the Road Plan, Purchaser is required to locate utilities prior to any road work can take place on County Road 390. If permit expires prior to completing work, Purchaser is responsible for obtaining a current permit.

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

H-150 Required Removal of Forest Products

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

Species	Net bd ft	Log length (ft)	Log dib
All species	10	12	5

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

H-157 Optional Removal of Forest Products Not Designated

If in the course of operations, Purchaser decides to remove forest products that are below the minimum designated removal specifications per the 'Required Removal of Forest Products' (H-150), the payment rates in clause P-027 shall apply.

Forest products designated as optional shall be decked separately from forest products designated as required for removal. Prior to removal from the sale area, optional forest products as described in this clause must be inspected and approved by the Contract Administrator. Optional forest products may not be mixed with forest products that are required for removal by this contract and shall be removed from the sale area in separate truck loads using load tickets specified by the Contract Administrator.

All material removed under this clause is subject to the same log and load accountability rules as defined in the Log Definitions and Accountability section of this contract. Purchaser shall follow the payment procedures as required in the P-052 clause and will submit a separate summary report for all forest products removed from the sale area under the authority of this clause.

H-160 Mismatch

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

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

H-180 Removal of Specialized Forest Products or Firewood

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

H-190 Completion of Settings

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

H-220 Protection of Residual or Adjacent Trees

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

H-230 Tops and Limbs Outside the Sale Boundary

Tops and limbs outside the sale boundary as a result of Purchaser's operation shall be removed concurrently with the yarding operation unless otherwise directed by the Contract Administrator.

Section C: Construction and Maintenance**C-040 Road Plan**

Road construction and associated work provisions of the Road Plan for this sale, dated 7/12/2024 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 11, 11-1, Zig Zag Pit road, 2-1, 36T, 36T-4, and County 390 roads. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

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

C-080 Landing Locations Approved Prior to Construction

Landings shall be marked by Purchaser and approved by the Contract Administrator prior to construction.

C-090 Landing Location

Landings shall be built a minimum of 50 feet off the 1, 2, 11, and County Road 390 road(s).

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-020 Extreme Hazard Abatement

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

Extreme hazard abatement is required in within 100 feet of the county roads if greater than 9 tons per acre of slash is generated in this area.

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

S-130 Hazardous Materials**a. Hazardous Materials and Waste - Regulatory Compliance**

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

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

d. Hazardous Material Release Reporting

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

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

S-131 Refuse Disposal

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

S-140 Fence Repair

Purchaser shall immediately repair all fence damage resulting from operations on this sale to an equal or better condition than existed at the time of sale.

Section D: Damages

D-010 Liquidated Damages

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

D-021 Failure to Remove Forest Products

Purchaser's failure to remove all or part of the forest products sold in this agreement prior to the expiration of the contract term results in substantial injury to the State. The value of the forest products sold at the time of breach is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans, the actual cost of which is difficult to assess. A resale involves additional time and expense and is not an

adequate remedy. Therefore, Purchaser agrees to pay the State as liquidated damages a sum calculated using the following formula:

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

Where:

LD = Liquidated Damage value.

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

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

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

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

A = Administrative Fee = \$2,500.00.

The above formula reflects the Purchaser's forfeiture of the initial deposit in accordance with clause P-010 by deducting the initial deposit from the amount owed. In no event shall the liquidated damages be less than zero. Interest on the liquidated damage is owed from the date of breach until final payment, calculated using the following formula: $\text{Interest} = r \times LD \times N$.

Where:

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

LD = Liquidated damage value.

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

D-030 Inadequate Log Accountability

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

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

D-040 Leave Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-012, Leave Tree Damage Definition, the trees damaged result in substantial injury to the State. The value of the damaged leave trees at the time of the breach is not readily ascertainable. Therefore, Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged trees in Units #1-9.

SIGNATURES

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

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Print Name

Don Melton
South Puget Sound Region Manager

Date: _____
Address: _____

Date: _____

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

STATE OF _____)

COUNTY OF _____)

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

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

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

Notary Public in and for the State of

My appointment expires _____

Schedule A
Harvest Prescription for Units #1-9

Harvest Prescription:

This harvest is to enhance habitat by a variable density thinning to achieve the relative density (RD) target below. To accomplish this prescription, trees may be harvested that are between seven (7) inches and the DBH caps listed below by unit.

Unit #	Residual Target RD	DBH Cap (inches)
1, 3, 4, 6, 8	35	18
2, 5, 7, 9	37	20

- Only live trees 6 inches or greater in DBH will be used to calculate RD. Trees that are less than 6 inches in DBH are to be protected during harvest operations where possible, with special attention given to western redcedar.
- The RD target is an average at the unit level.
- In any given area, the residual RD shall not vary by more than five (5) points above or below the unit target.
- The RD listed for each unit is required; Purchaser shall leave sufficient trees and basal area per acre in the units to achieve the RD following harvest.
- Leave trees shall be thoroughly distributed across the harvest units on an acre by acre basis. Leave trees shall be selected using the Leave Tree Selection Criteria.
- Trees marked for structure creation shall not count towards the residual RD target.
- Relative Density (RD) will be calculated using the following formula

$$RD = \frac{BA}{\sqrt{QMD}}$$

- Trees larger than the DBH cap may be felled for safety reasons only. If felled, they must remain where felled and not counted towards the residual target RD.

Leave Tree Selection Criteria:

The Purchaser shall select leave trees from the dominant and co-dominant canopy by comparing with other trees in the stand, first by using species preference, then by form preference listed below.

Species preference (in descending order of priority):

- 1) western redcedar
- 2) Douglas-fir
- 3) western hemlock
- 4) Pacific silver fir/noble fir/Sitka spruce/grand fir
- 5) bigleaf maple
- 6) red alder

Form preference (in descending order of priority):

- 1) Free of disease, major defect and damage*
- 2) Fullest and most vigorous crown

*Four trees per acre with defect, damage or decay are to be left as wildlife trees

The Purchaser shall comply with the reserve tree selection guidelines listed in “Guidelines for Selecting Reserve Trees” published by the Washington Department of Labor and Industries. The Purchaser is not required to leave any unsafe tree.

Certification:

The Contract Administrator will approve and certify in writing all persons engaged in selection of leave trees or felling of timber prior to cutting operations, per clause H-011.

Equipment Exclusion:

No equipment shall operate within 25 feet of white “Timber Sale Boundary” tags adjacent to Type 1, 3, and 4 streams in Units #1, #3, #4, #5, #6, #7, #8, and #9 unless authorized by Contract Administrator.

No equipment shall operate within 50 feet of blue flagging delineating wetlands in Units #1, #2, #8, and #9 unless authorized by Contract Administrator.

Schedule B
Prescription Compliance in Units #1-9

Compliance:

To ensure that the Purchaser is in compliance with the prescription, the Purchaser shall measure sample plots across the landscape concurrently while harvesting Units #1, #2, #3, #4, #5, #6, #7, #8, and #9. These plots shall be pre-determined, with approval by the Contract Administrator (CA), on a 330 foot by 330 foot grid covering each unit to ensure random and unbiased plot locations. If 330 foot by 330 foot grid is not possible due to configuration of the unit, another unbiased grid will be agreed upon by the CA.

At each plot location, stand conditions will be measured using a fixed plot of 1/10 acre and a variable plot with a 20 BAF prism. (A different BAF may be used if approved by CA.)

All compliance plots, as described above, will be marked in the field. The perimeter of the plot will be marked with fluorescent pink flagging. On each plot, the count trees will be marked with one yellow band of paint, and BA trees with two yellow bands of paint. The Purchaser shall demonstrate, to the satisfaction of the CA, a working knowledge and ability to accurately measure and calculate Relative Density. The Purchaser shall submit compliance plot data to the CA at the following intervals:

Units # 1-9 after 10% of the unit has been cut and every 20% of the total unit acreage thereafter.

The following tables include residual trees per acre (TPA) and basal area (BA) averages that are recommended based on cruise information and modeling to achieve the RD prescription for the respective units. These are estimates only. Compliance of the RD achieved for each unit will be based on actual plot data.

Unit	Average TPA Recommended	Average Basal Area per Acre
1	178	115
2	118	144
3	128	130
4	164	120
5	112	144
6	157	122
7	115	144
8	139	126
9	150	131

If a plot indicates that the RD is more than five (5) points above or below the unit target, the CA must be notified immediately. The CA shall determine if this deviation will require recertification of the fallers.

The Purchaser shall not deviate from the requirements set forth in the Compliance portion of this schedule without prior written approval by the CA.

Schedule C
Recruitment of Downed Wood in Units #1, #3-9

Structure Creation:

In Units #1, #3, #4, #5, #6, #7, #8, and #9, the Purchaser shall enhance habitat by creating structure trees as part of the DNR's Riparian Forest Restoration Strategy (RFRS). Trees are marked for down woody debris creation.

Down woody debris (DWD) creation

Trees designated for DWD creation are marked with 1 band of pink paint and a "D" at a rate of five (5) trees per thinned RMZ acre for a total of 269 trees. Some of these trees are to be felled towards the stream/wetland, and into the stream/wetland where feasible. Others in Units #7 and #8 should not be felled toward the stream due to potentially unstable slopes. The Contract Administrator shall be present during DWD creation in Units #7 and #8 to ensure trees are not felled into potentially unstable slopes.

For any tree that is marked for creation of DWD, the faller has the authority to make the below modifications for safety. If any modifications for safety are made, the Purchaser shall notify the Contract Administrator.

- If unsafe to fall the tree, the tree may be traded for another nearby tree of similar species and size for falling as DWD the towards stream. Alternate trees must be reviewed and approved by the Contract Administrator.
- If unsafe to fall the tree towards the stream, the tree may be felled in another safer direction.

Unit	Thinned RMZ Acres	Tree Count
1	4.8	24
3	4.1	21
4	9.0	45
5	8.2	41
6	10.0	50
7	3.3	17
8	13.4	67
9	0.7	4
	Total: 53.5	Total: 269



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: South Puget Sound

Timber Sale Name: Rockit Launch SWT

Application Number: 30- 106713

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 0 linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: 0 linear feet
Road to be reconstructed (optional and required) but not abandoned

Abandonment: 0 linear feet
Abandonment of existing roads not reconstructed under the contract

Decommission: 0 linear feet
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: 44,765 linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: 1,641 linear feet
Roads to be constructed (optional and required) and then abandoned

1,764 linear feet

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

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

(Revised 9/18)

PRE-CRUISE NARRATIVE

Sale Name: Rockit Launch SWT	Region: South Puget Sound
Agreement #: 30-106713	District: Elbe
Contact Forester: Austin Haworth	Phone: (360)-552-8957 Location: Enumclaw
Alternate Contact: Nick Meboe	Phone: (564)-669-1524 Location: Elbe

Type of Sale (lump sum, mbf scale, tonnage scale or contract harvest): **tonnage scale**
 Required or Optional removal of utility as pulp (*for scale sales only*): **Optional**
 Evaluated for RFRS Implementation?: **Yes**

Percentage cable-uphill: **0%**
 Percentage cable-downhill: **0%**
 Percentage ground based: **100%**

Species Onsite: RC, DF, WH, RA, BC, BLM, NF, SF, SS, Other:(Please List) Grand fir

UNIT ACREAGES* AND METHOD OF DETERMINATION:

Unit #	Harvest R/W or RMZ WMZ	Legal Description Sec/Twp/Rng	Grant	Gross Traversed Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method, dimensions and error of closure if applicable)
					RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	Harvest	Sec 29/ T 15N/ R 06 E		29.6	0	0	1.5		28.1	County Road 390: 26'x1,325'=0.8 ac Other: 14'(avg)x2,230'= 0.7 ac
2	Harvest	Sec 28/ T 15N/ R 06 E Sec 29/ T 15N/ R 06 E		22.5	0	0	0		22.5	
3	Harvest	Sec 36/ T 15N/ R 06 E		32.2	0	0	2.1		30.1	36T: 25'x2,700'=1.6 ac 36T4/abandoned rd in unit: 18'x1200'=0.5 ac
4	Harvest	Sec 36/ T 15N/ R 06 E		27.1	0	0	0.8		26.3	36T: 27'x1,361'=0.8 ac
5	Harvest	Sec 33/ T 15N/ R 06 E		29.5	0	0	1.2		28.3	11: 31'x1,610'=1.2 ac
6	Harvest	Sec 33/ T 15N/ R 06 E Sec 04/ T 14N/ R 06 E		52.9	0	0	1		51.9	11: 31'x1,410'=1.0 ac
7	Harvest	Sec 04/ T 14N/ R 06 E		7.9	0	0	0		7.9	
8	Harvest	Sec 04/ T 14N/ R 06 E		61.5	0	0	0.4		61.1	Abandoned rd. within unit: 22'x773'=0.4 ac
9	Harvest	Sec 03/ T 14N/ R 06 E Sec 04/ T 14N/ R 06 E		21.8	0	0	0.7		21.1	Abandoned rd. within unit: 22'x1,075'=0.5 ac 1 road: 50'x157'=0.2 ac
10	R/W	Sec / T N/ R E		4.6	0	0	1.0		3.6	Abandoned rd: 22'x1,886'=1.0 ac
TOTAL ACRES				289.6	0	0	8.7		280.9	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Mark leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.) *For all marked thinnings, include a tree count by species.
1	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging, County Road 390, and white DNR Carsonite posts with pink flagging along property line.		Thin to RD 35. No trees over 18 inches DBH to be cut.
2	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging, County Road 390, and white DNR Carsonite posts with pink flagging along property line.		Thin to RD 37. No trees over 18 inches DBH to be cut.
3	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging, white DNR Carsonite posts with pink flagging along property line, and the 36T road.		Thin to RD 35. No trees over 18 inches DBH to be cut.
4	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging, 36T Road, and Kernahan Road.		Thin to RD 35. No trees over 18 inches DBH to be cut.
5	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging.		Thin to RD 37. No trees over 18 inches DBH to be cut.
6	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging and the 11 Road.		Thin to RD 35. No trees over 18 inches DBH to be cut.
7	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging and the 2 Road.		Thin to RD 37. No trees over 18 inches DBH to be cut.
8	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging and the 2 Road.		Thin to RD 35. No trees over 18 inches DBH to be cut.
9	Small Wood Thinning - Boundary marked by white "Timber Sale Boundary" tags with pink flashers/flagging, the 1 Road, and 2 Road.		Thin to RD 37. No trees over 18 inches DBH to be cut.
10	Right-of-Way - Boundary is marked by orange "Right-of-Way Boundary" tags with orange flashers.		

OTHER PRE-CRUISE INFORMATION:

Unit #	Estimated Volume (MBF)	Percent Removal	Removal Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	See cruise	53	318.0	Access off County Road 390.	
2	See cruise	32	136.5	Access off County Road 390.	
3	See cruise	46	319.5	Access off the 36T	

				road. Gate 417, 383 Lock	
4	See cruise	39	196.2	Access off the 36T road. Gate 417, 383 Lock	
5	See cruise	47	250.0	Access off the 11 road. Gate 419, 383 Lock	
6	See cruise	35	333.6	Access off the 11 road. Gate 419, 383 Lock	
7	See cruise	40	75.2	Access off the 2 road.	
8	See cruise	38	535.8	Access off the 2 road.	
9	See cruise	48	226.6	Access off the 1 road.	
10 (ROW)	See cruise	100	82.6	Access off the 2 road.	
Total:	See cruise	42	2474.3		

REMARKS:

Estimated volume from FVS plots and RS-FRIS, based off net acres.
A 40 BAF was used in all units when cruising for FVS.
ROW that goes through U8 has been cutout and shows in LRM/FMA layer.
The portion of ROW that splits the southwest part of U9 has been deducted from U9 acres and is shown in LRM/FMA layer.

Prepared By: Austin Haworth Date: 6/26/24	Title: SPS Commercial Thinning Forester	CC:
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Revised 2/23/2007 (PSLD), Revised 1/22/20 (SPS)

Timber Sale Cruise Report Rockit Launch

Sale Name: ROCKIT LAUNCH SWT

Sale Type: TONNAGE SCALE

Region: SO PUGET

District: RAINIER

Lead Cruiser: AM Douglas

Other Cruisers: Blake Warnstadt

Cruise Narrative:

Location:

Rockit Launch is located in Tahoma State Forest, in Ashford, WA. Access is provided by SR 706.

Cruise Design:

143 plots were used to sample 701 trees.

Diameters were measured to tenths of an inch. Bole heights were measured to a 5" top or estimated break point. Trees were segmented into lengths based on a preference for long logs and taking into account location of defect. Preferred length for conifers is 40'. Preferred length for hardwoods is 30'.

Timber Quality:

Most of Rockit Launch contains plantation-grown Douglas-fir. Trees are fairly uniform. Scattered pockets of hardwood, mainly black cottonwood and red alder, are also present. A sizeable portion of unit 8 contains grand fir. Small spike knots were noted in most Douglas-fir boles.

Logging and Stand Conditions:

Sale is 100% ground based. Topography is flat with moderate slopes in some places.

General Remarks:

Rockit Launch is a thinning. Units are to be cut to a Relative Density of 35-37.

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	14.7	4.2		1,110	5	883	218	4
BC	14.8			289	7		282	
RA	11.9			223			223	
GF	11.6			130	4	78	48	
WH	11.2			54		42	11	1
ALL	13.9	4.4		1,806	16	1,003	782	5

Timber Sale Notice Weight (tons)

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
DF	9,459	36	7,339	2,056	27
BC	2,127	48		2,079	
RA	1,855			1,855	
GF	1,157	37	682	439	
WH	497		411	75	12
ALL	15,095	121	8,432	6,503	39

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 (%)
192.8	3.3	105.6	2.2	20,353	3.9

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
ROCKIT LAUNCH U1	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	28.1	29.6	14	7	0
ROCKIT LAUNCH U2	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	22.5	22.5	11	6	0
ROCKIT LAUNCH U3	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	30.1	32.2	15	8	1
ROCKIT LAUNCH U4	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	26.3	27.2	13	7	0
ROCKIT LAUNCH U5	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	28.3	29.5	14	9	1
ROCKIT LAUNCH U6	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	51.9	52.9	26	13	0
ROCKIT LAUNCH U7	B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	7.9	7.9	7	7	0
ROCKIT LAUNCH U8	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	61.1	61.5	30	15	0
ROCKIT LAUNCH U9	B1C: VR, 1 BAF (40) Measure/ Count Plots, Sighting Ht = 4.5 ft	21.1	21.8	10	6	0
ROCKIT LAUNCH 10	FX: FR plots (20 tree / acre expansion)	3.6	4.6	3	3	0
All		280.9	289.7	143	81	2

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
BC	LIVE	2 SAW	Domestic	14.7	40	24	24	0.0	47.6	6.9
BC	LIVE	4 SAW	Domestic	7.2	34	1,033	1,005	2.7	2,079.3	282.3
BC	LIVE	CULL	Cull	6.9	5	1	0	100.0	0.0	0.0
DF	LIVE	2 SAW	Domestic	12.1	40	18	17	2.6	36.4	4.9
DF	LIVE	3 SAW	Domestic	9.1	40	3,238	3,144	2.9	7,339.5	883.3
DF	LIVE	4 SAW	Domestic	5.0	28	803	777	3.3	2,055.9	218.1
DF	LIVE	CULL	Cull	5.0	12	15	0	100.0	0.0	0.0
DF	LIVE	UTILITY	Pulp	5.0	14	14	14	0.0	27.0	4.0
GF	LIVE	2 SAW	Domestic	12.1	40	17	15	7.7	37.1	4.3
GF	LIVE	3 SAW	Domestic	7.4	40	276	276	0.0	681.6	77.6
GF	LIVE	4 SAW	Domestic	5.0	29	172	170	1.2	438.7	47.8
GF	LIVE	CULL	Cull	5.0	8	6	0	100.0	0.0	0.0
RA	LIVE	4 SAW	Domestic	6.4	27	794	794	0.1	1,854.6	222.9
RA	LIVE	CULL	Cull	5.0	19	33	0	100.0	0.0	0.0
WH	LIVE	3 SAW	Domestic	7.3	40	154	150	2.4	410.7	42.1
WH	LIVE	4 SAW	Domestic	5.0	22	39	39	0.0	74.5	10.9
WH	LIVE	UTILITY	Pulp	2.1	17	2	2	0.0	11.9	0.6

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
BC	5 - 8	LIVE	Domestic	6.0	31	402	3.1	853.0	113.0
BC	5 - 8	LIVE	Cull	6.9	5	0	100.0	0.0	0.0
BC	9 - 11	LIVE	Domestic	9.9	40	602	2.5	1,226.2	169.2
BC	12 - 14	LIVE	Domestic	14.7	40	24	0.0	47.6	6.9
DF	5 - 8	LIVE	Cull	5.0	12	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Pulp	5.0	14	14	0.0	27.0	4.0
DF	5 - 8	LIVE	Domestic	5.7	31	1,583	3.4	4,139.2	444.6
DF	9 - 11	LIVE	Domestic	10.2	40	2,338	2.7	5,256.1	656.8
DF	12 - 14	LIVE	Domestic	12.1	40	17	2.6	36.4	4.9
GF	5 - 8	LIVE	Cull	5.0	8	0	100.0	0.0	0.0
GF	5 - 8	LIVE	Domestic	5.8	34	399	0.5	1,005.6	112.1
GF	9 - 11	LIVE	Domestic	9.8	40	47	0.0	114.7	13.3
GF	12 - 14	LIVE	Domestic	12.1	40	15	7.7	37.1	4.3
RA	5 - 8	LIVE	Cull	5.0	19	0	100.0	0.0	0.0
RA	5 - 8	LIVE	Domestic	6.2	28	455	0.1	1,056.3	127.9
RA	9 - 11	LIVE	Domestic	9.5	30	338	0.0	798.3	95.0

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
WH	< 5	LIVE	Pulp	2.1	17	2	0.0	11.9	0.6
WH	5 - 8	LIVE	Domestic	6.2	32	189	1.9	485.2	53.1

Cruise Unit Report ROCKIT LAUNCH U1

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	3 Saw	4 Saw	Utility
DF	13.9			242	194	46	3
BC	15.3			66		66	
ALL	14.2			308	194	111	3

Unit Cruise Design: ROCKIT LAUNCH U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	28.1	29.6	14	7	0

Unit Cruise Summary: ROCKIT LAUNCH U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
RA		5	0.4	0
DF	12	55	3.9	0
BC	3	14	1.0	0
ALL	15	74	5.3	0

Unit Cruise Statistics: ROCKIT LAUNCH 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 (%)
RA	14.3	374.2	100.0						
DF	157.1	47.3	12.6	116.1	10.9	3.1	18,251	48.5	13.0
BC	40.0	130.1	34.8	116.8	5.3	3.0	4,671	130.2	34.9
ALL	211.4	18.8	5.0	116.3	9.8	2.5	24,582	21.2	5.6

Unit Summary: ROCKIT LAUNCH U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	LIVE	CUT	3	ALL	15.4	69	87	2,495	2,335	6.4	15.5	20.0	5.1	65.6
BC	LIVE	LEA	4	ALL	14.7	64	87	2,495	2,335	6.4	17.0	20.0	5.2	65.6
DF	LIVE	CUT	12	ALL	14.6	66	87	9,066	8,628	4.8	63.9	74.3	19.4	242.4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	LEA	16	ALL	10.5	52	87	10,112	9,623	4.8	137.8	82.9	25.6	270.4
RA	LIVE	LEA	5	ALL	9.2	42	66				30.9	14.3	4.7	
ALL	LIVE	LEA	25	ALL	10.8	52	84	12,607	11,958	5.1	185.7	117.1	35.5	336.0
ALL	LIVE	CUT	15	ALL	14.8	67	87	11,561	10,963	5.2	79.4	94.3	24.5	308.1
ALL	ALL	CUT +LEAVE	40	ALL	12.1	56	85	24,167	22,921	5.2	265.1	211.4	60.0	644.1

Cruise Unit Report ROCKIT LAUNCH U2

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	3 Saw	4 Saw	Utility
DF	13.9			86	65	21	
BC	12.9			51		51	
WH	11.0			20	17	2	1
ALL	13.1			156	81	74	1

Unit Cruise Design: ROCKIT LAUNCH U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	22.5	22.5	11	6	0

Unit Cruise Summary: ROCKIT LAUNCH U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	8	43	3.9	0
BC	4	11	1.0	0
WH	2	2	0.2	0
ALL	14	56	5.1	0

Unit Cruise Statistics: ROCKIT LAUNCH 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	156.4	42.0	12.7	116.2	9.7	3.4	18,164	43.1	13.1
BC	40.0	178.9	53.9	124.9	8.0	4.0	4,996	179.1	54.1
WH	7.3	331.7	100.0	120.5	24.0	17.0	876	332.5	101.4
ALL	203.6	38.7	11.7	118.0	11.1	3.0	24,036	40.3	12.1

Unit Summary: ROCKIT LAUNCH U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	LIVE	CUT	4	ALL	13.2	64	85	2,300	2,271	1.3	19.1	18.2	5.0	51.1
BC	LIVE	LEA	2	ALL	18.0	80	99	2,760	2,725	1.3	12.3	21.8	5.1	61.3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	8	ALL	13.9	61	86	3,899	3,802	2.5	31.1	32.7	8.8	85.5
DF	LIVE	LEA	20	ALL	14.6	62	81	14,729	14,362	2.5	106.3	123.6	32.4	323.1
WH	LIVE	CUT	2	ALL	11.0	55	76	876	876	0.0	11.0	7.3	2.2	19.7
ALL	LIVE	LEA	22	ALL	15.0	64	83	17,488	17,087	2.3	118.6	145.5	37.5	384.5
ALL	LIVE	CUT	14	ALL	13.2	61	84	7,075	6,949	1.8	61.2	58.2	16.0	156.3
ALL	ALL	CUT +LEAVE	36	ALL	14.4	63	83	24,563	24,036	2.1	179.8	203.6	53.5	540.8

Cruise Unit Report ROCKIT LAUNCH U3

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
DF	16.0			112	92	21
WH	9.3			16	8	9
RA	10.1			15		15
ALL	12.9			144	99	44

Unit Cruise Design: ROCKIT LAUNCH U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	30.1	32.2	15	8	1

Unit Cruise Summary: ROCKIT LAUNCH U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	9	53	3.5	0
WH	2	5	0.3	0
RA	2	5	0.3	0
ALL	13	63	4.2	0

Unit Cruise Statistics: ROCKIT LAUNCH 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	141.3	73.2	18.9	116.7	9.6	3.2	16,496	73.9	19.2
WH	13.3	314.0	81.1	101.5	25.7	18.1	1,353	315.0	83.1
RA	13.3	314.0	81.1	93.3	34.1	24.1	1,244	315.8	84.6
ALL	168.0	52.6	13.6	113.7	15.6	4.3	19,094	54.9	14.3

Unit Summary: ROCKIT LAUNCH U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	16.2	71	89	3,823	3,735	2.3	22.4	32.0	8.0	112.4
DF	LIVE	LEA	24	ALL	12.7	60	81	13,063	12,761	2.3	124.3	109.3	30.7	384.1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
RA	LIVE	CUT	2	ALL	10.1	43	60	498	498	0.0	9.6	5.3	1.7	15.0
RA	LIVE	LEA	3	ALL	10.4	46	64	747	747	0.0	13.6	8.0	2.5	22.5
WH	LIVE	CUT	2	ALL	9.3	38	56	556	541	2.7	11.3	5.3	1.7	16.3
WH	LIVE	LEA	3	ALL	10.6	47	65	835	812	2.7	13.1	8.0	2.5	24.4
ALL	LIVE	CUT	13	ALL	13.5	56	74	4,878	4,774	2.1	43.3	42.7	11.4	143.7
ALL	LIVE	LEA	30	ALL	12.3	57	78	14,644	14,320	2.2	151.0	125.3	35.6	431.0
ALL	ALL	CUT +LEAVE	43	ALL	12.6	57	77	19,522	19,094	2.2	194.3	168.0	47.0	574.7

Cruise Unit Report ROCKIT LAUNCH U4

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U4

Sp	DBH	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
DF	14.8			225	185	39
WH	11.8			8	8	
ALL	14.6			232	193	39

Unit Cruise Design: ROCKIT LAUNCH U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	26.3	27.1	13	7	0

Unit Cruise Summary: ROCKIT LAUNCH U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
RA		3	0.2	0
DF	17	57	4.4	0
WH	1	2	0.2	0
ALL	18	62	4.8	0

Unit Cruise Statistics: ROCKIT LAUNCH 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 (%)
RA	9.2	190.0	52.7						
DF	175.4	41.2	11.4	120.7	17.0	4.1	21,163	44.5	12.1
WH	6.2	244.1	67.7	94.8	0.0	0.0	583	244.1	67.7
ALL	190.8	31.0	8.6	119.8	17.3	4.1	22,852	35.6	9.5

Unit Summary: ROCKIT LAUNCH U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	17	ALL	15.1	70	90	8,857	8,539	3.6	56.9	70.8	18.2	224.6
DF	LIVE	LEA	16	ALL	11.1	59	86	13,093	12,624	3.6	155.7	104.6	31.4	332.0
RA	LIVE	LEA	3	ALL	10.5	48	68				15.4	9.2	2.8	

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	1	ALL	11.8	53	70	292	292	0.0	4.1	3.1	0.9	7.7
WH	LIVE	LEA	1	ALL	9.0	25	33	292	292	0.0	7.0	3.1	1.0	7.7
ALL	LIVE	CUT	18	ALL	14.9	69	89	9,149	8,831	3.5	61.0	73.8	19.1	232.3
ALL	LIVE	LEA	20	ALL	11.0	57	82	13,385	12,915	3.5	178.1	116.9	35.3	339.7
ALL	ALL	CUT +LEAVE	38	ALL	12.1	60	84	22,533	21,746	3.5	239.1	190.8	54.4	571.9

Cruise Unit Report ROCKIT LAUNCH U5

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U5

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	3 Saw	4 Saw	Utility
DF	16.2	4.0		118	96	21	1
ALL	16.2	4.0		118	96	21	1

Unit Cruise Design: ROCKIT LAUNCH U5

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	28.3	29.5	14	9	1

Unit Cruise Summary: ROCKIT LAUNCH U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH		6	0.4	0
BC		1	0.1	0
DF	12	59	4.2	1
ALL	12	66	4.7	1

Unit Cruise Statistics: ROCKIT LAUNCH U5

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	17.1	176.4	47.1						
BC	2.9	374.2	100.0						
DF	168.6	51.1	13.7	104.6	34.2	9.9	17,630	61.5	16.9
ALL	188.6	45.1	12.1	104.6	34.2	9.9	19,721	56.6	15.6

Unit Summary: ROCKIT LAUNCH U5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	LIVE	LEA	1	ALL	21.8	86	107				1.1	2.9	0.6	
DF	LIVE	CUT	12	ALL	16.4	65	80	4,249	4,183	1.5	27.3	40.0	9.9	118.4
DF	LIVE	LEA	28	ALL	16.0	65	87	13,656	13,446	1.5	92.1	128.6	32.1	380.5
WH	LIVE	LEA	4	ALL	15.1	45	56				13.8	17.1	4.4	

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
ALL	LIVE	CUT	12	ALL	16.4	65	80	4,249	4,183	1.5	27.3	40.0	9.9	118.4
ALL	LIVE	LEA	33	ALL	16.0	63	83	13,656	13,446	1.5	107.0	148.6	37.2	380.5
ALL	ALL	CUT +LEAVE	45	ALL	16.0	63	82	17,905	17,630	1.5	134.3	188.6	47.0	498.9

Cruise Unit Report ROCKIT LAUNCH U6

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U6

Sp	DBH	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
RA	12.9			137		137
DF	15.3	4.0		134	112	22
BC	14.8			60		60
WH	14.1			10	10	
ALL	15.0	4.0		341	122	219

Unit Cruise Design: ROCKIT LAUNCH U6

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	51.9	52.9	26	13	0

Unit Cruise Summary: ROCKIT LAUNCH U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	13	80	3.1	1
RA	1	20	0.8	0
BC	5	13	0.5	0
WH	1	11	0.4	0
ALL	20	124	4.8	1

Unit Cruise Statistics: ROCKIT LAUNCH U6

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	123.1	82.2	16.1	93.4	35.2	9.8	11,496	89.4	18.8
RA	30.8	148.5	29.1	114.6	0.0	0.0	3,526	148.5	29.1
BC	20.0	248.2	48.7	124.6	7.5	3.3	2,493	248.3	48.8
WH	16.9	233.3	45.7	62.7	0.0	0.0	1,061	233.3	45.7
ALL	190.8	49.4	9.7	97.4	32.1	7.2	18,575	58.9	12.0

Unit Summary: ROCKIT LAUNCH U6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	LIVE	CUT	5	ALL	14.9	68	87	1,154	1,150	0.3	7.6	9.2	2.4	59.7
BC	LIVE	LEA	4	ALL	17.0	54	68	1,346	1,342	0.3	6.8	10.8	2.6	69.7
DF	LIVE	CUT	13	ALL	15.3	59	74	2,698	2,587	4.1	21.7	27.7	7.1	134.2
DF	LIVE	LEA	34	ALL	13.1	50	68	9,292	8,909	4.1	101.9	95.4	26.4	462.4
RA	LIVE	CUT	1	ALL	13.0	64	83	2,644	2,644	0.0	25.0	23.1	6.4	137.2
RA	LIVE	LEA	2	ALL	11.5	43	56	881	881	0.0	10.7	7.7	2.3	45.7
WH	LIVE	CUT	1	ALL	15.6	51	63	204	193	5.6	2.3	3.1	0.8	10.0
WH	LIVE	LEA	2	ALL	13.5	35	43	919	868	5.6	13.9	13.8	3.8	45.1
ALL	LIVE	LEA	42	ALL	13.2	48	64	12,439	12,001	3.5	133.3	127.7	35.0	622.9
ALL	LIVE	CUT	20	ALL	14.3	62	79	6,700	6,574	1.9	56.6	63.1	16.7	341.2
ALL	ALL	CUT +LEAVE	62	ALL	13.6	52	69	19,140	18,575	2.9	189.9	190.8	51.7	964.1

Cruise Unit Report ROCKIT LAUNCH U7

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U7

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	17.0			54	5	40	9
ALL	17.0			54	5	40	9

Unit Cruise Design: ROCKIT LAUNCH U7

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	7.9	7.9	7	7	0

Unit Cruise Summary: ROCKIT LAUNCH U7

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	10	37	5.3	0
ALL	10	37	5.3	0

Unit Cruise Statistics: ROCKIT LAUNCH U7

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	211.4	30.3	11.5	119.4	11.7	3.7	25,246	32.5	12.0
ALL	211.4	30.3	11.5	119.4	11.7	3.7	25,246	32.5	12.0

Unit Summary: ROCKIT LAUNCH U7

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	10	ALL	17.0	72	89	7,004	6,823	2.6	36.3	57.1	13.9	53.9
DF	LIVE	LEA	27	ALL	16.7	66	90	18,910	18,423	2.6	101.4	154.3	37.8	145.5
ALL	LIVE	LEA	27	ALL	16.7	66	90	18,910	18,423	2.6	101.4	154.3	37.8	145.5
ALL	LIVE	CUT	10	ALL	17.0	72	89	7,004	6,823	2.6	36.3	57.1	13.9	53.9
ALL	ALL	CUT +LEAVE	37	ALL	16.8	67	89	25,914	25,246	2.6	137.7	211.4	51.6	199.4

Cruise Unit Report ROCKIT LAUNCH U8

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U8

Sp	DBH	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
GF	11.5			114	73	42
BC	15.3			98		98
DF	13.1	5.0		83	61	22
RA	11.6			26		26
ALL	12.3	5.0		321	134	187

Unit Cruise Design: ROCKIT LAUNCH U8

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	61.1	61.5	30	15	0

Unit Cruise Summary: ROCKIT LAUNCH U8

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH		1	0.0	0
DF	5	63	2.1	2
GF	10	48	1.6	0
BC	4	29	1.0	0
RA	3	5	0.2	0
ALL	22	146	4.9	2

Unit Cruise Statistics: ROCKIT LAUNCH U8

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 (%)
WH	1.3	547.7	100.0						
DF	84.0	127.1	23.2	101.4	34.7	15.5	8,515	131.8	27.9
GF	64.0	123.5	22.5	82.5	31.2	9.9	5,281	127.4	24.6
BC	38.7	128.8	23.5	120.5	23.3	11.7	4,659	130.9	26.3
RA	6.7	448.0	81.8	78.7	16.0	9.2	525	448.3	82.3
ALL	194.7	32.3	5.9	98.2	30.4	6.5	19,111	44.3	8.8

Unit Summary: ROCKIT LAUNCH U8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	LIVE	CUT	4	ALL	12.5	74	94	1,648	1,607	2.5	15.6	13.3	3.8	98.2
BC	LIVE	LEA	14	ALL	18.8	90	109	3,131	3,052	2.5	13.1	25.3	5.8	186.5
DF	LIVE	CUT	5	ALL	13.5	59	79	1,383	1,352	2.2	13.4	13.3	3.6	82.6
DF	LIVE	LEA	25	ALL	15.7	65	84	7,327	7,163	2.2	52.6	70.7	17.8	437.7
GF	LIVE	CUT	10	ALL	11.9	44	60	1,907	1,870	1.9	29.3	22.7	6.6	114.3
GF	LIVE	LEA	26	ALL	15.2	63	78	3,478	3,411	1.9	32.8	41.3	10.6	208.4
RA	LIVE	CUT	3	ALL	12.0	43	58	420	420	0.0	6.8	5.3	1.5	25.7
RA	LIVE	LEA	1	ALL	12.6	41	67	105	105	0.0	1.5	1.3	0.4	6.4
WH	LIVE	LEA	1	ALL	16.0	60	72				1.0	1.3	0.3	
ALL	LIVE	CUT	22	ALL	12.4	54	72	5,358	5,248	2.0	65.1	54.7	15.5	320.7
ALL	LIVE	LEA	67	ALL	15.9	67	85	14,041	13,731	2.2	101.0	140.0	35.0	839.0
ALL	ALL	CUT +LEAVE	89	ALL	14.7	62	80	19,399	18,980	2.2	166.1	194.7	50.5	1,159.7

Cruise Unit Report ROCKIT LAUNCH U9

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH U9

Sp	DBH	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
RA	9.5			44		44
DF	12.2			37	27	10
ALL	10.3			81	27	54

Unit Cruise Design: ROCKIT LAUNCH U9

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	21.1	21.8	10	6	0

Unit Cruise Summary: ROCKIT LAUNCH U9

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
BC		2	0.2	0
WH		2	0.2	0
DF	4	40	4.0	0
RA	7	7	0.7	0
ALL	11	51	5.1	0

Unit Cruise Statistics: ROCKIT LAUNCH U9

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 (%)
BC	8.0	316.2	100.0						
WH	8.0	316.2	100.0						
DF	160.0	48.6	15.4	88.1	33.3	16.6	14,101	58.9	22.6
RA	28.0	117.6	37.2	74.9	12.7	4.8	2,097	118.3	37.5
ALL	204.0	36.3	11.5	86.2	21.9	6.6	17,577	42.4	13.3

Unit Summary: ROCKIT LAUNCH U9

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	LIVE	LEA	2	ALL	17.7	74	89				4.7	8.0	1.9	

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	4	ALL	12.2	51	69	1,823	1,763	3.3	24.6	20.0	5.7	37.2
DF	LIVE	LEA	35	ALL	17.3	77	95	12,764	12,338	3.3	85.8	140.0	33.7	260.3
RA	LIVE	CUT	7	ALL	9.5	40	62	2,536	2,097	17.3	56.9	28.0	9.1	44.3
WH	LIVE	LEA	2	ALL	17.6	60	73				4.7	8.0	1.9	
ALL	LIVE	CUT	11	ALL	10.4	43	64	4,359	3,860	11.5	81.5	48.0	14.8	81.4
ALL	LIVE	LEA	39	ALL	17.3	76	94	12,764	12,338	3.3	95.2	156.0	37.5	260.3
ALL	ALL	CUT +LEAVE	50	ALL	14.5	61	80	17,124	16,198	5.4	176.7	204.0	52.3	341.8

Cruise Unit Report ROCKIT LAUNCH 10

Unit Sale Notice Volume (MBF): ROCKIT LAUNCH 10

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	11.8			19		12	7
GF	12.2			15	4	5	6
BC	16.3			15	7		8
RA	8.9			1			1
ALL	12.5			50	11	17	22

Unit Cruise Design: ROCKIT LAUNCH 10

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
FX: FR plots (20 tree / acre expansion)	3.6	4.6	3	3	0

Unit Cruise Summary: ROCKIT LAUNCH 10

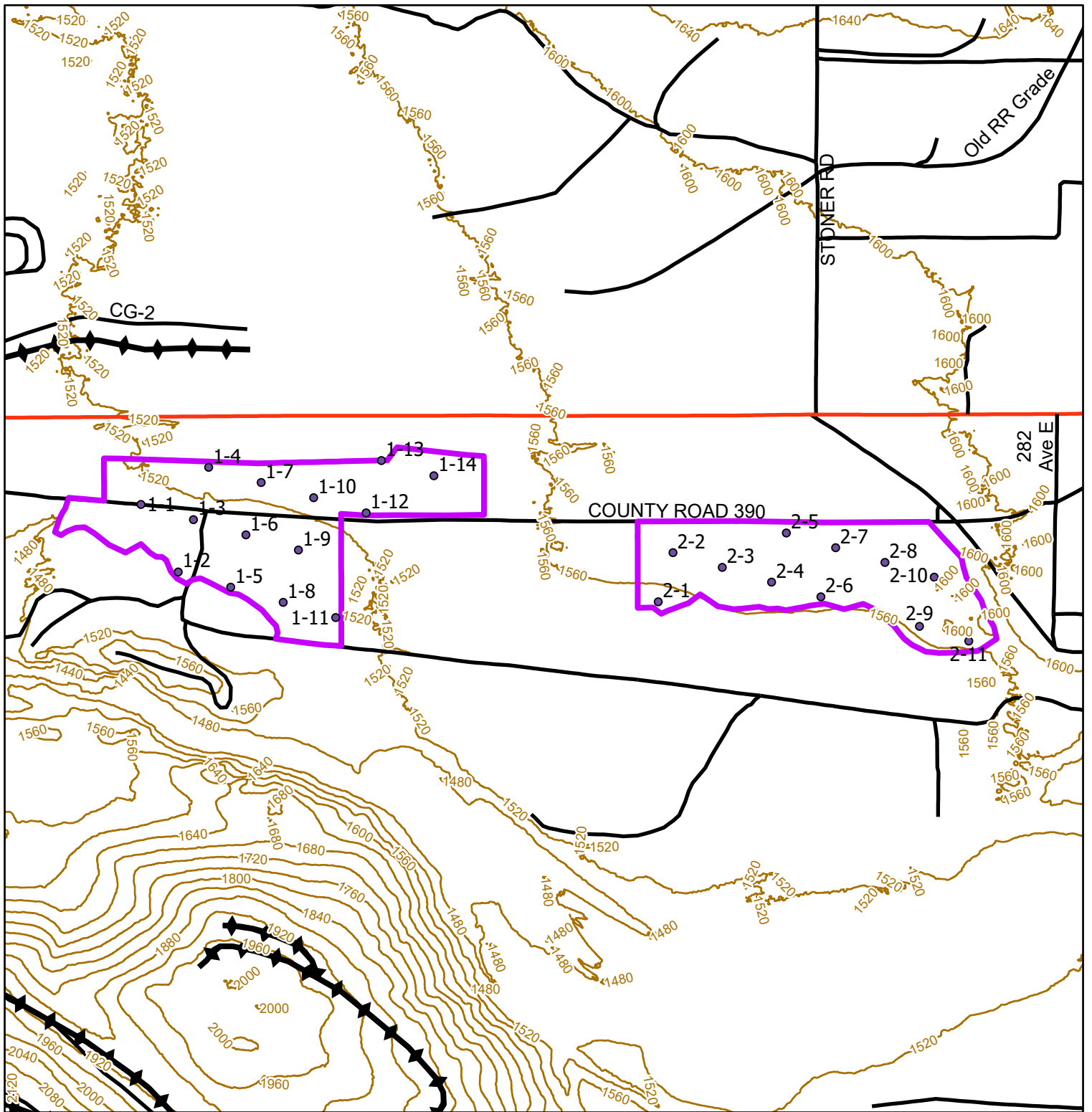
Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	9	9	3.0	0
GF	9	9	3.0	0
BC	3	3	1.0	0
RA	1	1	0.3	0
ALL	22	22	7.3	0

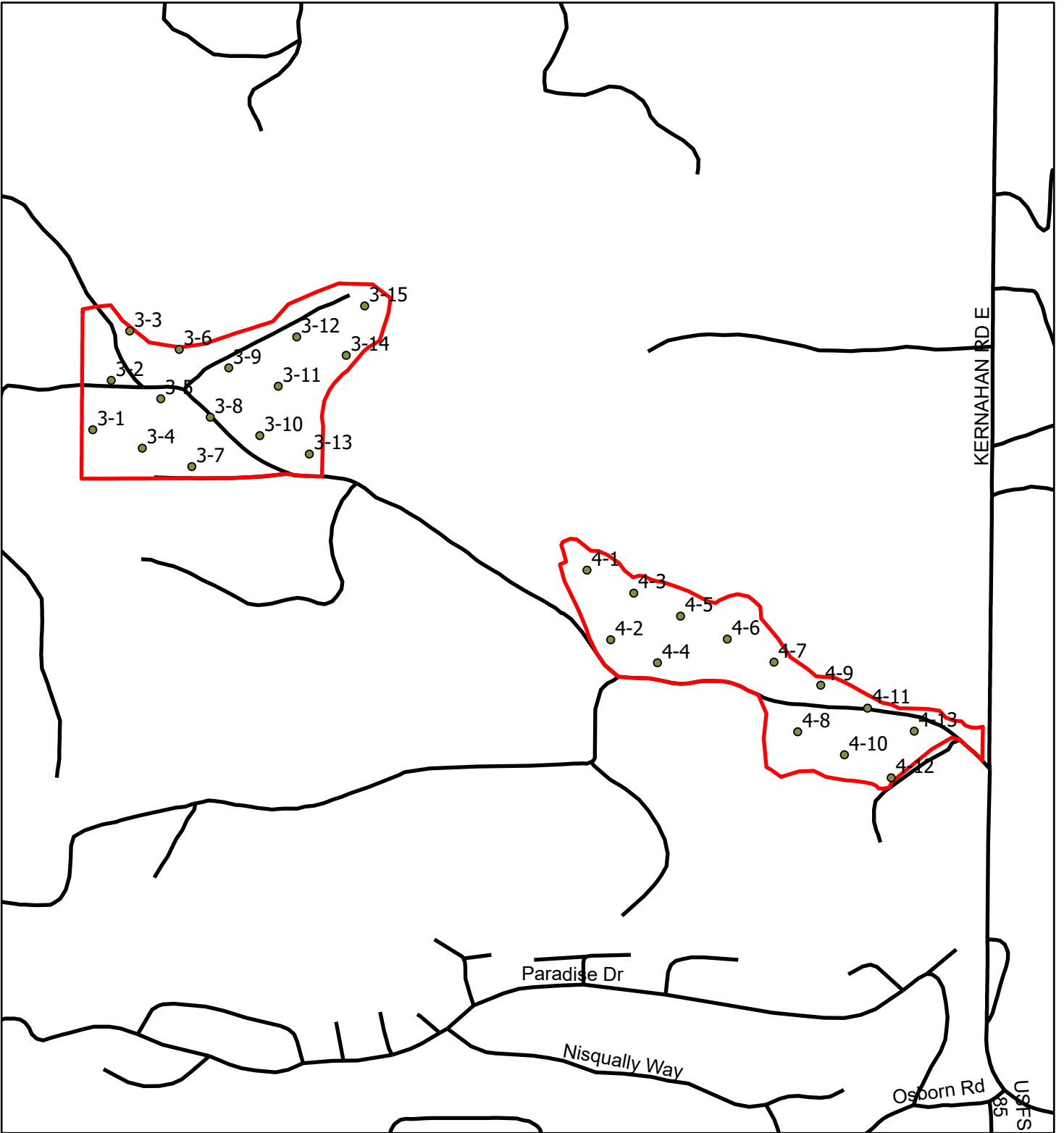
Unit Cruise Statistics: ROCKIT LAUNCH 10

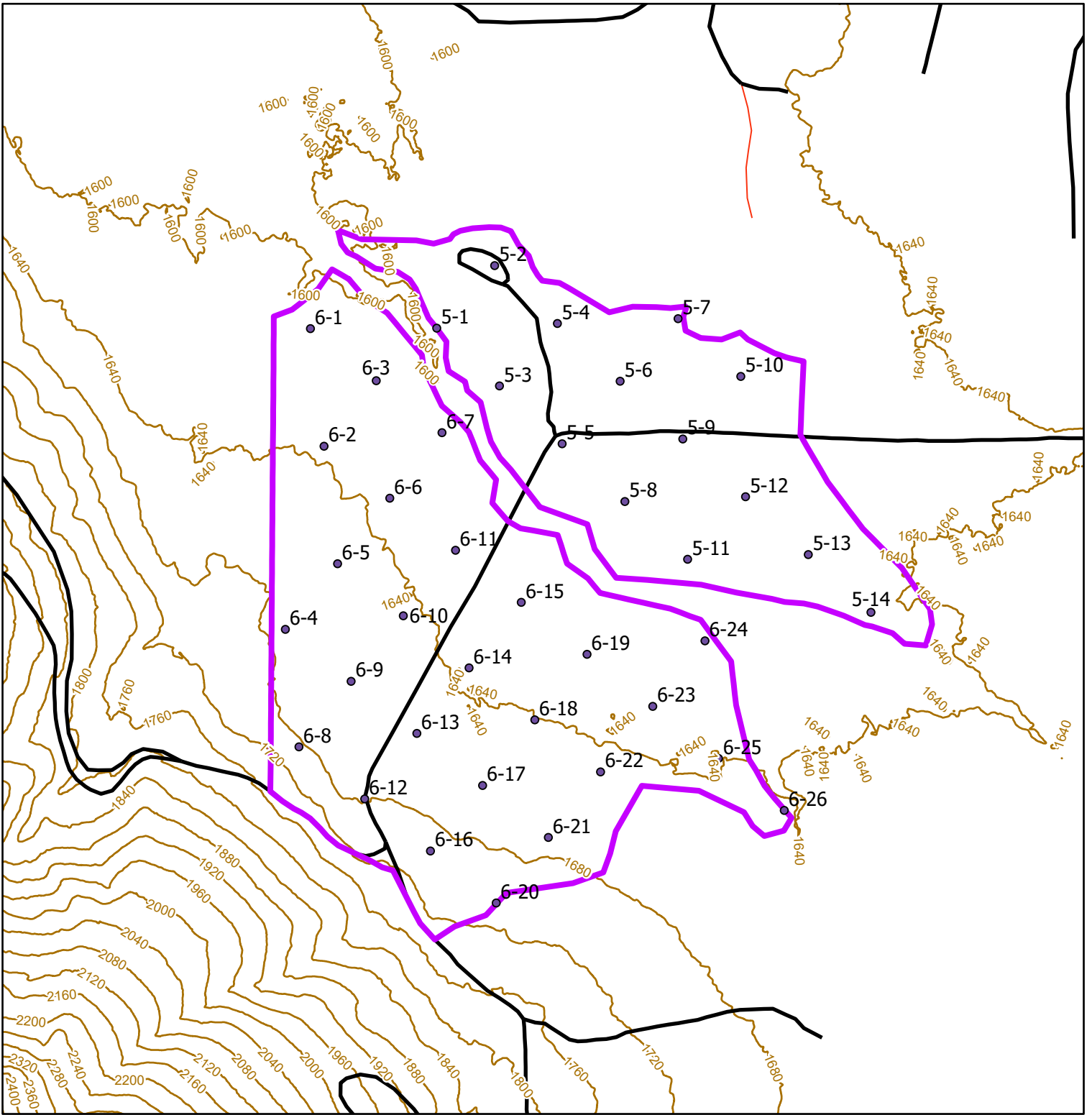
Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	45.4	106.9	61.7	116.3	62.4	20.8	5,280	123.7	65.1
GF	48.7	93.5	54.0	88.1	24.8	8.3	4,293	96.7	54.6
BC	28.8	141.1	81.5	140.1	5.3	3.1	4,040	141.2	81.5
RA	2.9	173.2	100.0	74.1	0.0	0.0	213	173.2	100.0
ALL	125.8	40.7	23.5	109.9	47.7	10.2	13,827	62.6	25.6

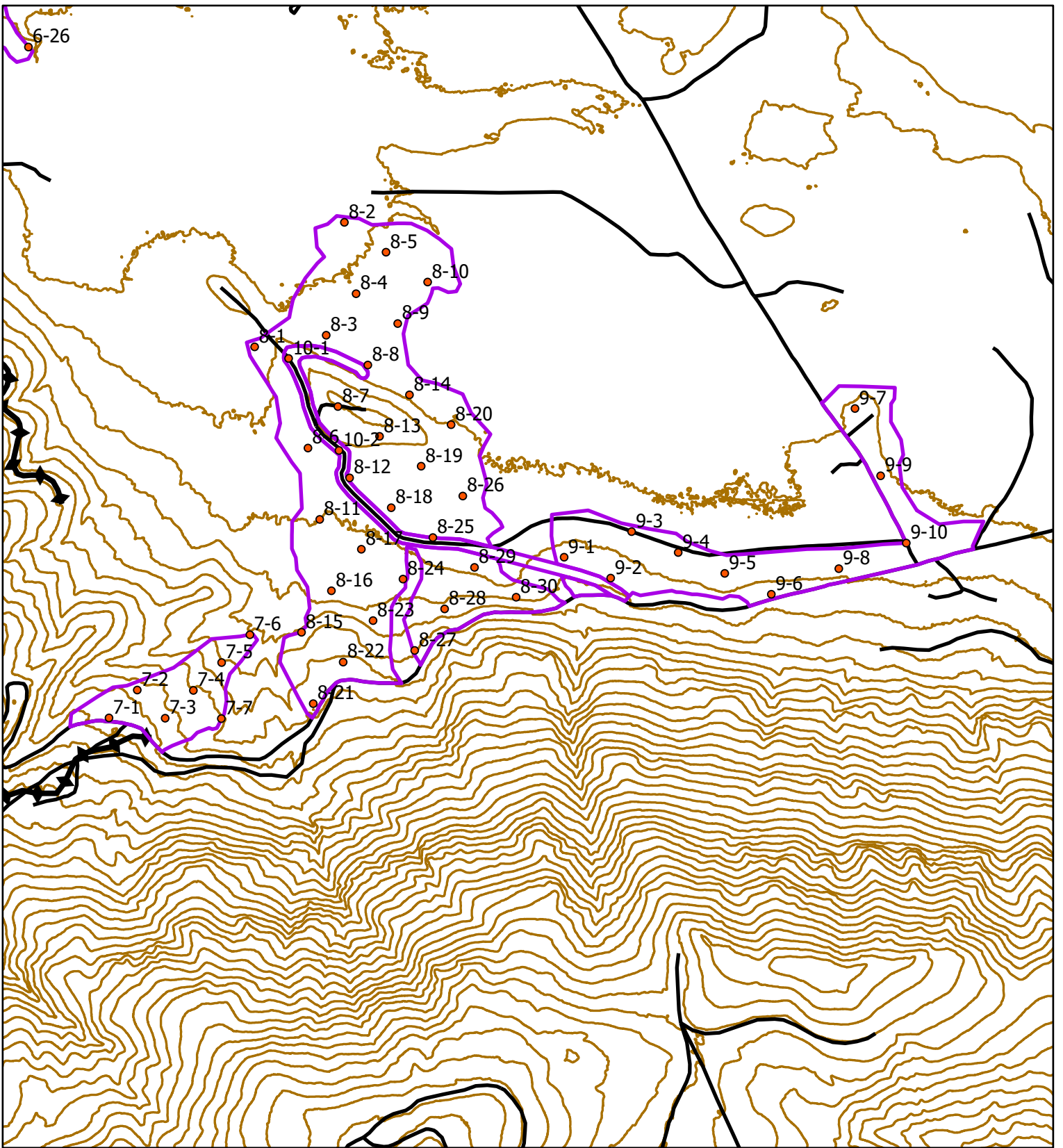
Unit Summary: ROCKIT LAUNCH 10

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	LIVE	CUT	3	ALL	16.3	75	101	4,100	4,040	1.5	19.9	28.8	7.1	14.5
DF	LIVE	CUT	9	ALL	11.8	56	88	5,427	5,280	2.7	59.8	45.4	13.2	19.0
GF	LIVE	CUT	9	ALL	12.2	49	67	4,413	4,293	2.7	60.0	48.7	13.9	15.5
RA	LIVE	CUT	1	ALL	8.9	33	49	213	213	0.0	6.7	2.9	1.0	0.8
ALL	LIVE	CUT	22	ALL	12.6	55	80	14,153	13,827	2.3	146.4	125.8	35.3	49.8
ALL	ALL	CUT +LEAVE	22	ALL	12.6	55	80	14,153	13,827	2.3	146.4	125.8	35.3	49.8











Forest Practices Application/Notification Notice of Decision

FPA/N No: 2424161

Effective Date: 11/26/2024

Expiration Date: 11/26/2027

Shut Down Zone: 657 | 659 S

EARR Tax Credit: Eligible Non-eligible

Reference: **Rockit Launch SWT
30-106713**

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

Issued By: Erica Christie-Jones

Region: South Puget Sound Region

Title: Resource Protection Forester

Date: 11/26/2024

Copies to: Landowner, Timber Owner, and Operator

Issued in person: LO TO OP By: 

Date: 11/26/2024

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:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources South Puget Sound Region
<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> 950 Farman Ave N Enumclaw, WA 98022 <u>Mailing Address</u> 950 Farman Ave N Enumclaw, WA 98022

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

Other Applicable Laws

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

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

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

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

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

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

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

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

DNR Declaration of Mailing

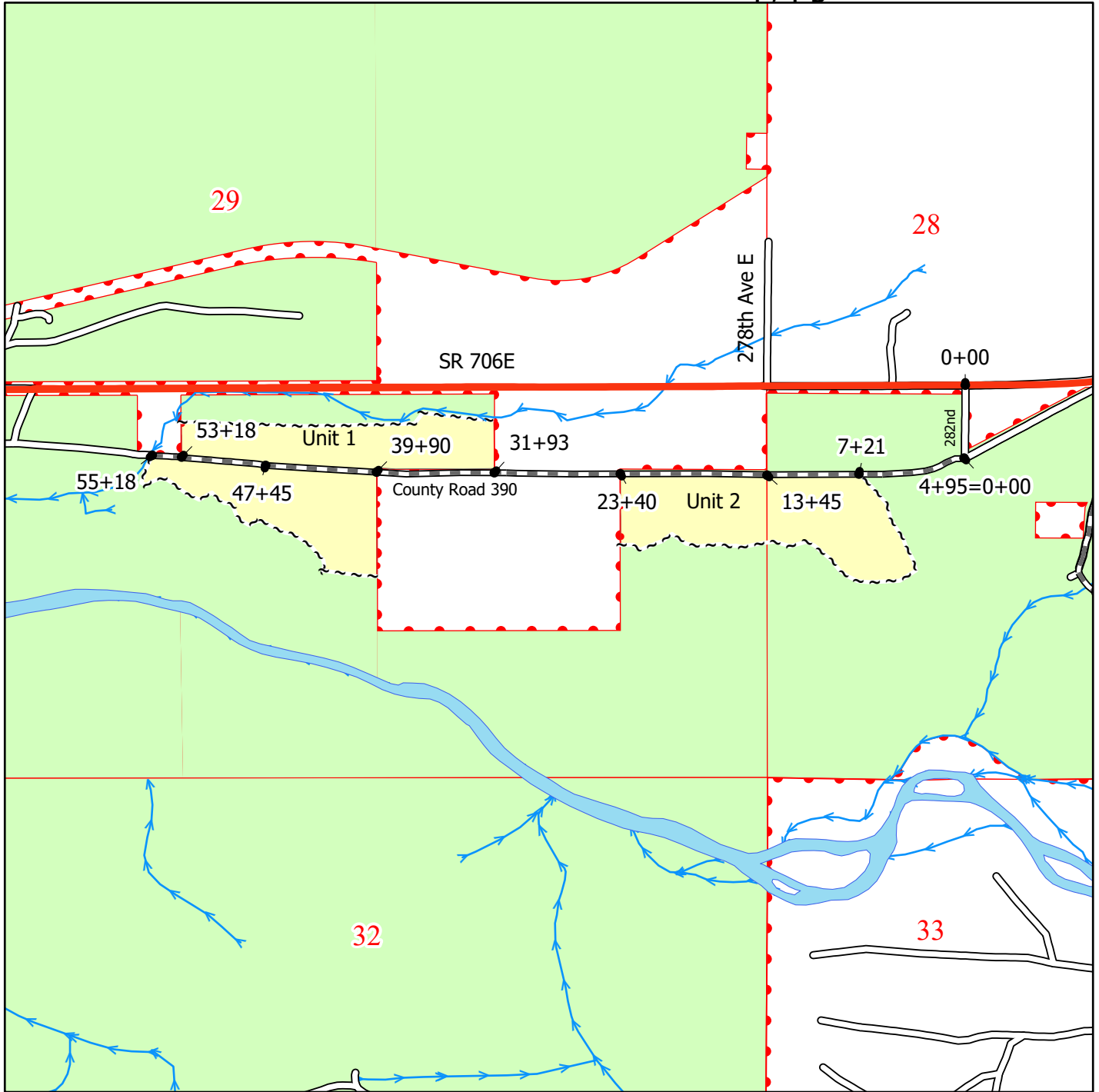
I, **Julie Antonsen**, caused the Notice of Decision for FPA/N No. **2424161** to be placed in the United States mail at **Olympia, WA**; postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

11/26/2024
(Date)

Enumclaw, WA
(City & State where signed)

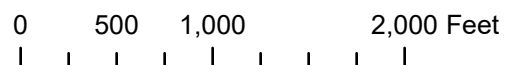
(Signature)

Rockit Launch SWT Road Work Map, pg 1 of 5

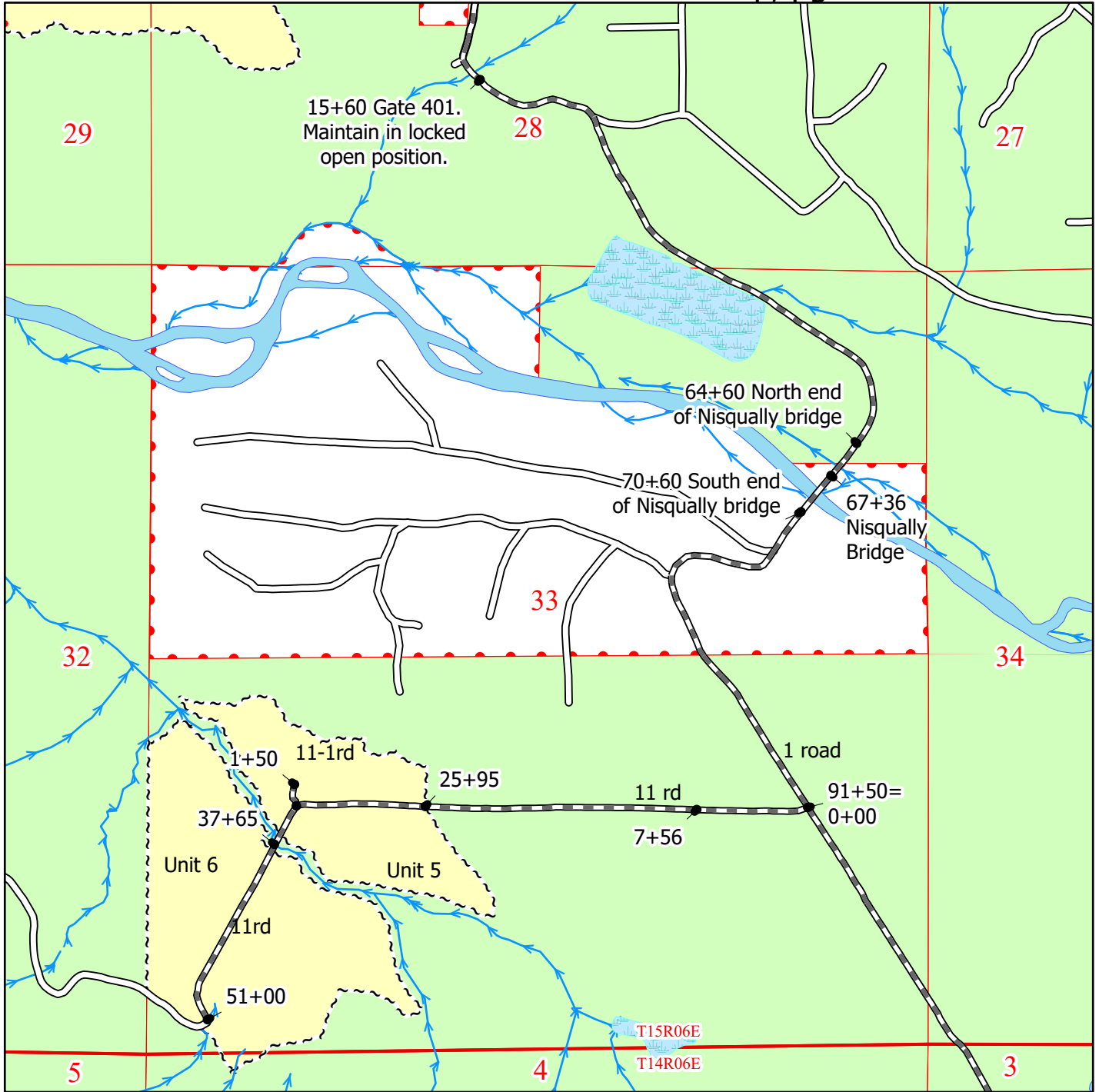


See design sheets for additional culvert locations.

- | | | |
|-------------------------------|------------------------------|-------------------|
| Highway | Streams | DNR Managed Lands |
| Existing Roads | Sale Boundary Tags | Sale Units |
| Required Pre-Haul Maintenance | Property Line | Rd Stationing |
| Open Water | Public Land Survey Townships | |
| | Public Land Survey Sections | |

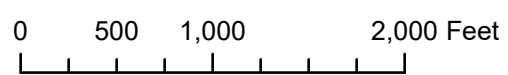


Rockit Launch SWT Road Work Map, pg 2 of 5

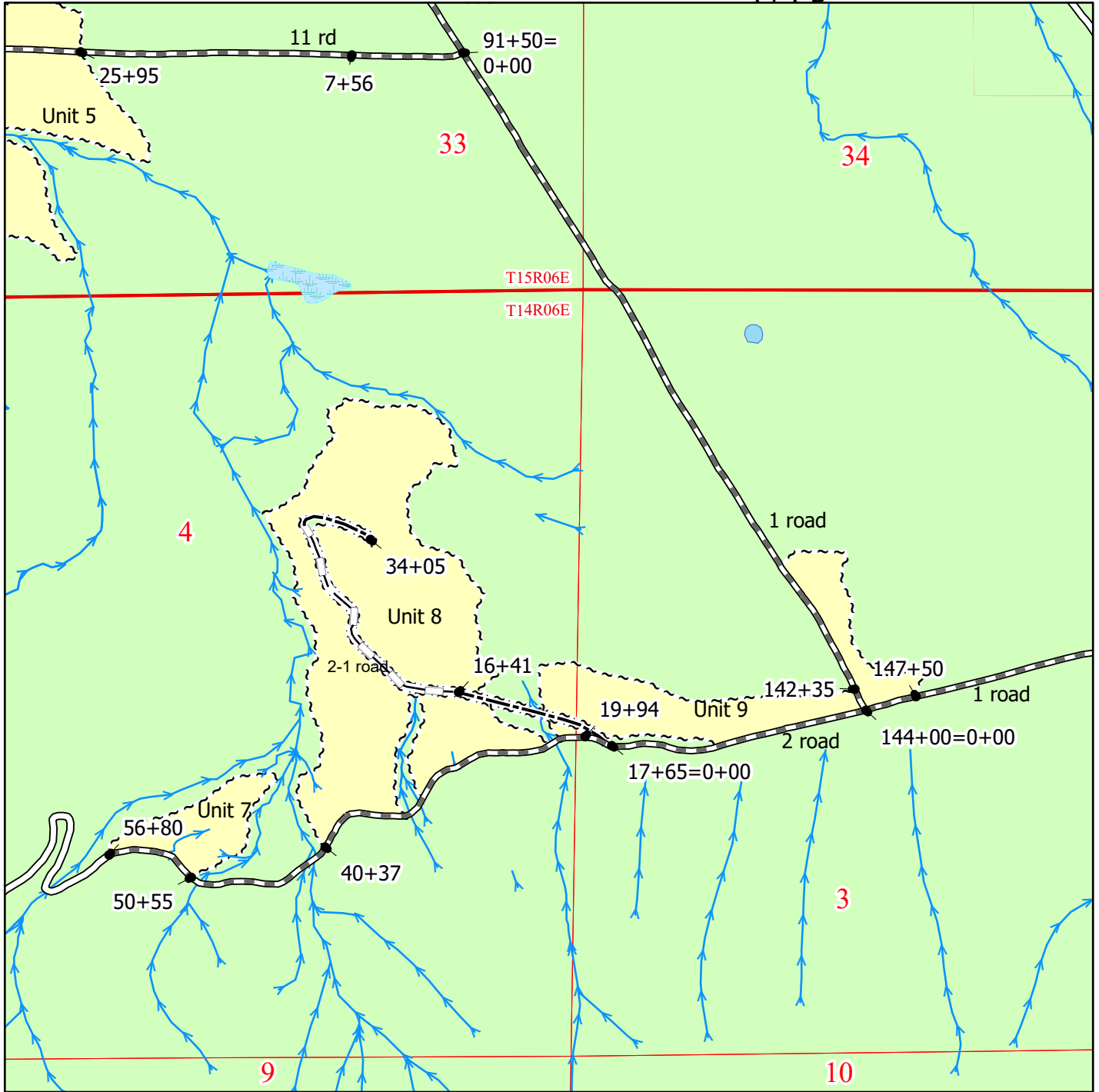


See design sheets for additional culvert locations.

- | | | |
|-------------------------------|------------------------------|-------------------|
| Existing Roads | Streams | DNR Managed Lands |
| Required Pre-Haul Maintenance | Sale Boundary Tags | Sale Units |
| Open Water | Property Line | Rd Stationing |
| Wet Area | Public Land Survey Townships | |
| | Public Land Survey Sections | |

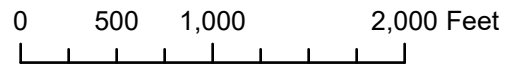


Rockit Launch SWT Road Work Map, pg 3 of 5

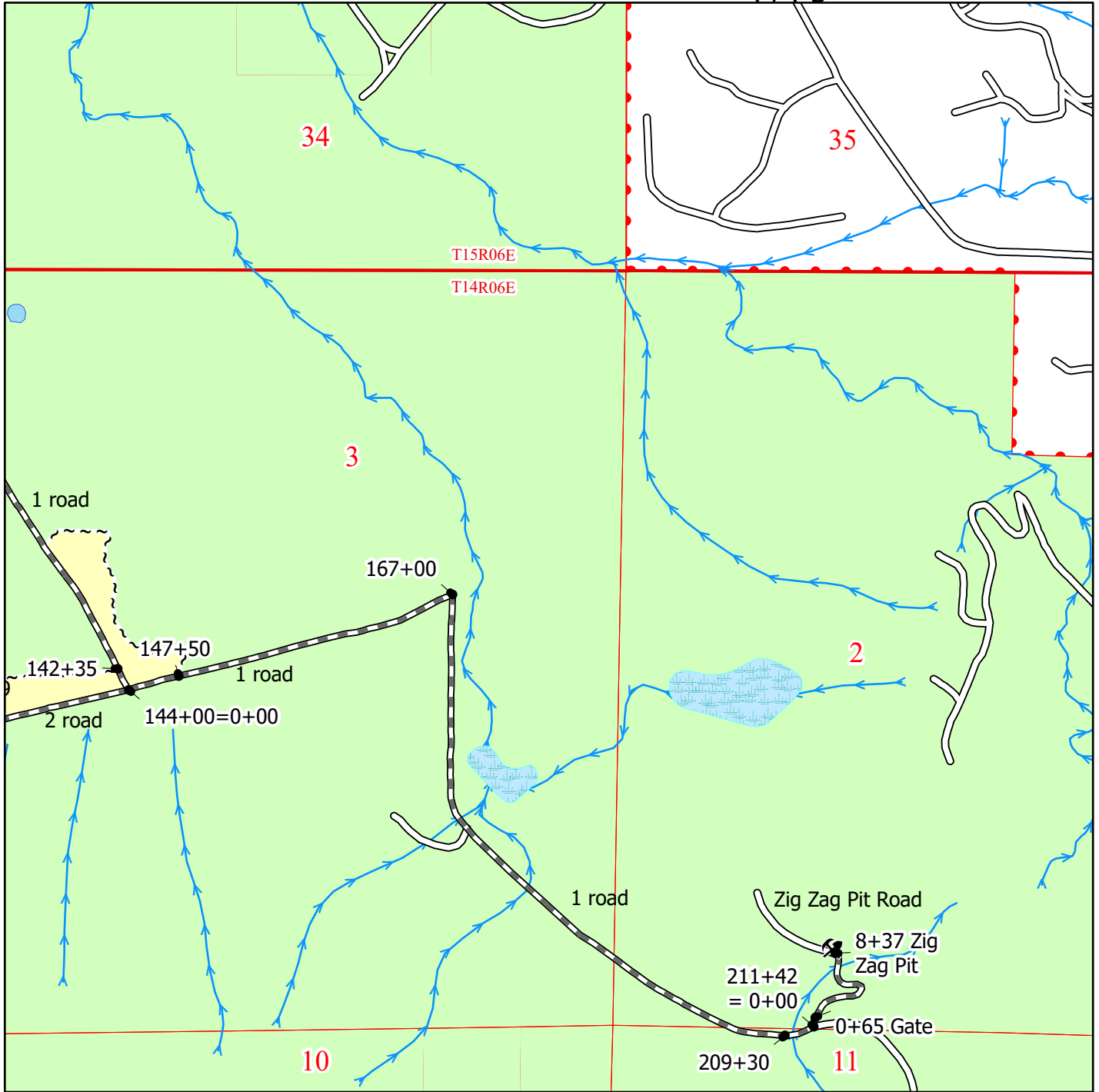


See design sheets for additional culvert locations.

- | | | |
|-------------------------------|------------------------------|-----------------------------|
| Existing Roads | Wet Area | Public Land Survey Sections |
| Required Pre-Haul Maintenance | Streams | DNR Managed Lands |
| Optional Construction | Sale Boundary Tags | Sale Units |
| Optional Reconstruction | Right of Way Tags | Rd Stationing |
| Open Water | Public Land Survey Townships | |

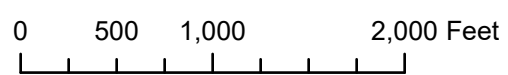


Rockit Launch SWT Road Work Map, pg 4 of 5

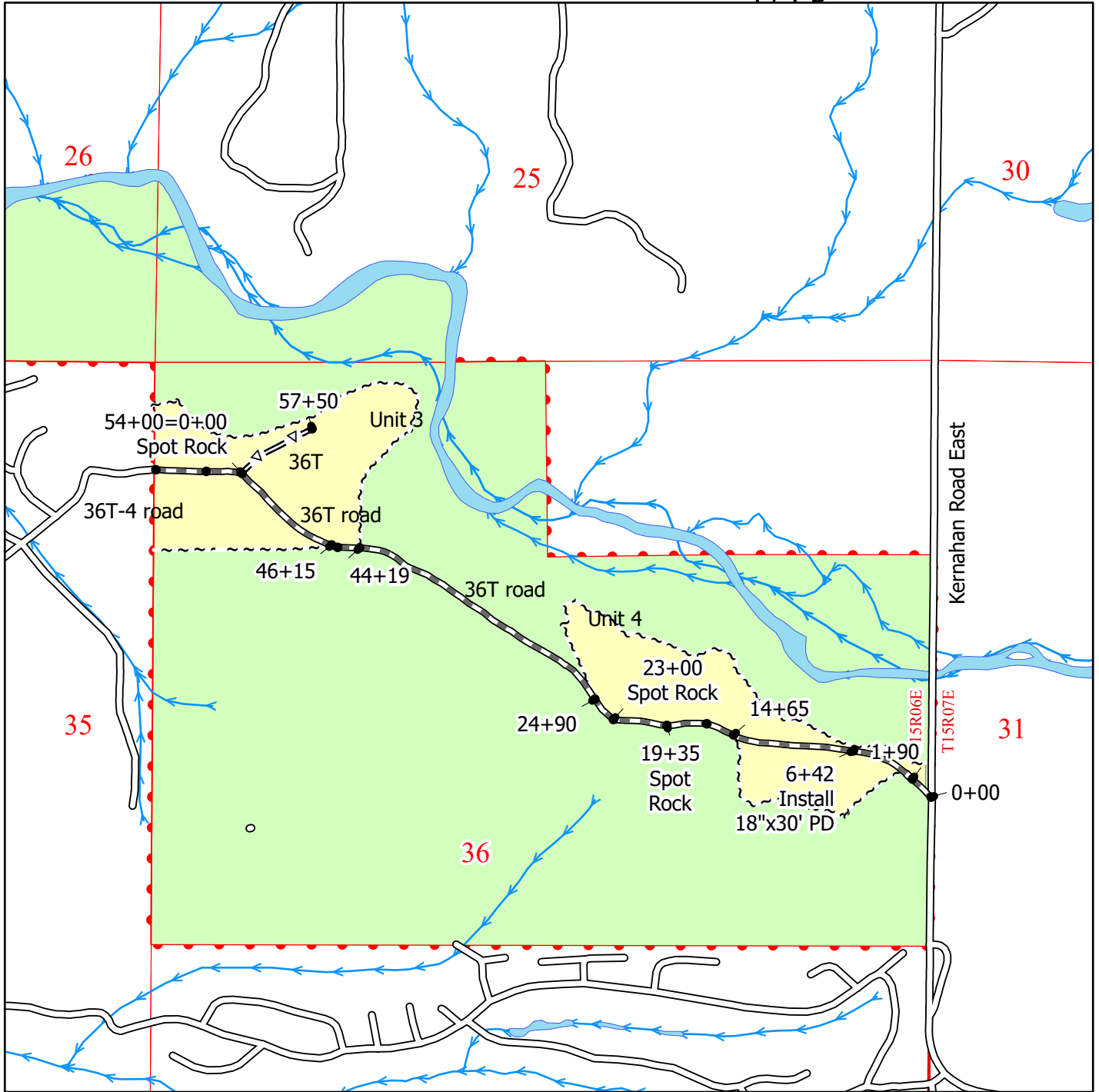


See design sheets for additional culvert locations.

- | | | |
|-------------------------------|------------------------------|-----------------------------|
| Rock Pit (Corporate) | Wet Area | DNR Managed Lands |
| Existing Roads | Streams | Sale Units |
| Required Pre-Haul Maintenance | Sale Boundary Tags | Rd Stationing |
| Open Water | Public Land Survey Townships | Public Land Survey Sections |

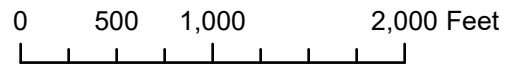


Rockit Launch SWT Road Work Map, pg 5 of 5



See design sheets for additional culvert locations.

- | | | |
|-------------------------------|------------------------------|-----------------------------|
| Existing Roads | Streams | DNR Managed Lands |
| Required Pre-Haul Maintenance | Sale Boundary Tags | Sale Units |
| Optional Pre-Haul Maintenance | Property Line | Rd Stationing |
| Open Water | Public Land Survey Townships | Public Land Survey Sections |



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

ROCKIT LAUNCH SWT TIMBER SALE ROAD PLAN
LEWIS COUNTY
RAINIER DISTRICT
SOUTH PUGET SOUND REGION

AGREEMENT NO.: 30-106713

STAFF ENGINEER: M. BELL

DATE: 7/12/2024

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>
1	0+00 to 211+42	Pre-haul maintenance
County Road 390	0+00 to 55+18	Pre-haul maintenance
11	0+00 to 51+00	Pre-haul maintenance
11-1	0+00 to 1+50	Pre-haul maintenance
Zig Zag	0+00 to 8+37	Pre-haul maintenance
2	0+00 to 56+80	Pre-haul maintenance
36T	0+00 to 54+00	Pre-haul maintenance
36T-4	0+00 to 5+88	Pre-haul maintenance
2-1	0+00 to 34+05	Abandon, if built

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>
2-1	0+00 to 16+41	Construction
2-1	16+41 to 34+05	Reconstruction
36T	54+00 to 57+50	Pre-haul maintenance

0-4 CONSTRUCTION

Construction includes, but is not limited to:

- Clearing.
- Grubbing.
- Right of way debris disposal.
- Excavation and/or embankment to subgrade.
- Landing construction.
- Manufacture or acquisition and application of optional rock.
- Road abandonment.

0-5 RECONSTRUCTION

Reconstruction includes, but is not limited to <fill in requirements>.

- Clearing.
- Grubbing.
- Right of way debris disposal.
- Excavation and/or embankment to subgrade.
- Landing construction.
- Manufacture or acquisition and application of optional rock.
- Road abandonment.

0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
County Road 390	0+00 to 55+18	<ul style="list-style-type: none">• Brushing right-of-way.• Ditch cleaning and reconstruction.• Grading, shaping, and compaction of road surface.• Acquisition and application of rock.• 39+90 to 44+90 road widening.
1	0+00 to 211+42	<ul style="list-style-type: none">• Grading, shaping, and compaction of road surface.
1	0+00 to 64+60	<ul style="list-style-type: none">• Brushing right-of-way.
2	0+00 to 56+80	<ul style="list-style-type: none">• Brushing right-of-way.• Grading, shaping, and compaction of road surface.
11	0+00 to 51+00	<ul style="list-style-type: none">• Brushing right-of-way.• Grading, shaping, and compaction of road surface.
11-1	0+00 to 1+50	<ul style="list-style-type: none">• Brushing right-of-way.• Grading, shaping, and compaction of road surface.
Zig Zag	0+00 to 8+37	<ul style="list-style-type: none">• Grading, shaping, and compaction of road surface.
36T	0+00 to 57+50	<ul style="list-style-type: none">• Brushing right-of-way.

		<ul style="list-style-type: none"> • Ditch cleaning and reconstruction. • Grading, shaping, and compaction of road surface. • Manufacture or acquisition and application of rock.
36T-4	0+00 to 5+88	<ul style="list-style-type: none"> • Brushing right-of-way. • Ditch cleaning and reconstruction. • Grading, shaping, and compaction of road surface. • Manufacture or acquisition and application of rock.

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 POST-HAUL MAINTENANCE9-5 .

0-10 ABANDONMENT

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

0-12 DEVELOP ROCK SOURCE

Purchaser may develop an existing rock source. Rock source development will involve Clearing, Stripping, Drilling, Blasting and Crushing. 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 or design data (plan, profile, and cross-sections).

1-4 ROAD TOLERANCES

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

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

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

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.

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

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

- Centerline is marked with orange flagging and orange pin flags for new construction.

1-16 CONSTRUCTION STAKES SET BY STATE

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

1-18 REFERENCE POINT DAMAGE

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

SUBSECTION TIMING

1-20 COMPLETE BY DATE

On the following road(s), Purchaser shall complete road work by the specified date, unless approved in writing by the Contract Administrator.

<u>Road</u>	<u>Stations</u>	<u>Comments</u>
County Road 390	0+00 to 55+18	Road Work including Post-Haul Maintenance shall be completed by 9/9/26 (Expiration dated for Road Use Permit #080624-A with Pierce County) See G-380 Road Use Permit – Private.
All other roads		Complete pre-haul maintenance road work prior to timber haul for the unit it accesses.

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

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

1-23 ROAD WORK PHASE APPROVAL

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

- Subgrade compaction
- Rock compaction

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

No operation of road construction equipment or rock haul will be allowed on weekends or state recognized holidays, unless authorized in writing by the Contract Administrator.

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

<u>Activity</u>	<u>Closure Period</u>
Operation of road construction equipment or rock haul	November 1 to May 15

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a seasonal closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Purchaser shall comply with a maintenance plan, when a maintenance plan is determined necessary by the Contract Administrator 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 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 new construction rocked roads.
- Wheel track rutting exceeds 4 inches on crushed rock 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.

1-32 BRIDGE OR ASPHALT SURFACE RESTRICTION

The use of metal tracked equipment is not allowed on bridge or asphalt surfaces at any time. If Purchaser must run equipment on bridge or asphalt surfaces, then rubber tired equipment or other methods, approved in writing by Contract Administrator, must be used.

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

**Purchaser shall have asphalt surfaces reviewed by a third party, specializing in asphalt construction and repair. The third party’s scope of the damage and repairs must be agreed upon between the Purchaser and the Contract Administrator. Damage to the asphalt from transporting equipment will be repaired at the Purchaser’s expense.

1-33 SNOW PLOWING RESTRICTION

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

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

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

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

1-43 ROAD WORK AROUND UTILITIES

Road work is in close proximity to a utility. Known utilities are listed, but it is the Purchaser’s responsibility to identify any utilities not listed. Purchaser shall work in accordance with all applicable laws or rules concerning utilities. Purchaser is responsible for all notification, including “call before you dig”, and liabilities associated with the utilities and their rights-of-way.

<u>Road</u>	<u>Stations</u>	<u>Utility</u>
County Road 390	0+00 to 55+18	No specific utilities known. Possible power in the area. “Call before you dig” is required per Pierce County Permit #080624-A.

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

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

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

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

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

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

2-4 PASSAGE OF LIGHT VEHICLES

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

<u>Road</u>	<u>Stations</u>
County Road 390	0+00 to 55+18

2-5 MAINTENANCE GRADING – EXISTING ROAD

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

<u>Road</u>	<u>Stations</u>
County Road 390	0+00 to 55+18
1	0+00 to 211+42
2	0+00 to 56+80
11	0+00 to 51+00
11-1	0+00 to 1+50
Zig Zag	0+00 to 8+37
36T	0+00 to 57+50
36T-4	0+00 to 5+88

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall clean ditches, headwalls, and catchbasins. Work must be completed before grading, rock application and/or timber haul and must be done in accordance with the TYPICAL SECTION SHEET. Pulling ditch material across the road or mixing in with the road surface is not allowed. Excavated material must be scattered outside the clearing limits.

<u>Road</u>	<u>Stations</u>
County Road 390	0+00 to 55+18
36T	0+00 to 57+50
36T-4	0+00 to 5+88

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION BRUSHING

3-1 BRUSHING

On the following road(s), Purchaser shall cut vegetative material up to 4 inches in diameter, including limbs, as shown on the BRUSHING LIST. Brushing must be achieved by manual or 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>	<u>Comments</u>
County Road 390	0+00 to 55+18	See Clause 11-2 ADDITIONAL BRUSHING REQUIREMENTS for additional brushing requirements.
1	0+00 to 64+60	
11	0+00 to 51+00	
11-1	0+00 to 1+50	
36T	0+00 to 57+50	
36T-4	0+00 to 5+88	

SUBSECTION CLEARING

3-2 BRUSHING RESTRICTION

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

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 2 inches DBH or over 5 feet high between the marked right-of-way boundaries, 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.
- Against standing trees unless approved by the Contract Administrator.

SUBSECTION GRUBBING

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. Purchase shall remove stumps using a hydraulic mounted excavator unless authorized in writing by the Contract Administrator. Grubbing must be completed before starting excavation and embankment.

SUBSECTION ORGANIC DEBRIS

3-20 ORGANIC DEBRIS DEFINITION

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

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris before subgrade compaction, application of rock and/or timber haul.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 20 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 55%.
- 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.
- In location that would impede drainage.

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.

SECTION 4 – EXCAVATION

4-2 PIONEERING

Pioneering may not extend more than 1000 feet beyond completed construction unless approved in writing by the Contract Administrator. In addition, the following actions must be taken as pioneering progresses:

- Drainage must be provided on all uncompleted construction.
- Road pioneering operations may not undercut the final cut slope or restrict drainage.
- Culverts at live stream crossings must be installed during pioneering operations.

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Purchaser shall follow these standards for road grade and alignment except as designed:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 12 percent adverse.
- Minimum curve radius is 60 feet at centerline.

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
Common Earth (56% to 70% side slopes)	¾:1	133
Common Earth (on slopes over 70%)	½:1	200
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.

4-10 WIDEN THE EXISTING SUBGRADE

On the following road(s), Purchaser shall widen the subgrade and fill slopes to the dimensions shown on the TYPICAL SECTION SHEET. If necessary, Purchaser shall reconstruct excavation slopes to provide sufficient width for the road surface and any ditches. Pulling excavation material across the road or mixing in with the existing road surface is not allowed.

<u>Road</u>	<u>Stations</u>	<u>Comment</u>
County Road 390	39+90 to 44+90	Widen to 12 foot running surface plus a ditch

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. Minimum dimensions are shown on the TYPICAL SECTION SHEET.

SUBSECTION DITCH CONSTRUCTION

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

The Purchaser shall construct and reconstruct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Excavated slopes shall be consistent with Clause 4-5 CUT SLOPE RATIO. Ditches shall 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. 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.

SUBSECTION WASTE MATERIAL (DIRT)

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 55% if the waste material is compacted and free of organic debris.

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.
- On side slopes steeper than 55%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- Against standing timber.

SUBSECTION SHAPING

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.

SUBSECTION COMPACTION

4-60 FILL COMPACTION

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

4-61 SUBGRADE COMPACTION

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

4-63 EXISTING SURFACE COMPACTION

Purchaser shall compact maintained road surfaces in accordance with the COMPACTION LIST by routing equipment over the entire width. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before rock application.

SECTION 5 – DRAINAGE

SUBSECTION CULVERTS

5-5 CULVERTS

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

5-6 CULVERT TYPE

Purchaser shall install culverts made of plastic in accordance with Clauses 10-15 through 10-24.

5-7 USED CULVERT MATERIAL

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

<u>Road</u>	<u>Stations</u>
2-1	0+00 to 34+05

5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT AND DRAINAGE LIST that are not installed will become the property of the state. Purchaser shall stockpile materials at the Ashford Cooler Compound at 52010 - 278th Ave E Ashford, WA 98304.

5-13 CONTINGENCY CULVERTS

The following culverts will be supplied by the Purchaser and are available for installation as directed by the Contract Administrator.

<u>Road</u>	<u>Size</u>
On any portion of road used for timber or rock haul.	Two 18" x 30' culverts

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL 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. Culverts shall be banded using lengths of no less than 10 feet, and no more than one length less than 16 feet. Shorter section of banded culvert shall be installed at the inlet end.

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 manufacturer.

SUBSECTION ENERGY DISSIPATERS

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT LIST that specify the placement of rock. Energy dissipater installation is subject to approval by the Contract Administrator.

The type of energy dissipater and the amount of material must be consistent with the specifications listed on the CULVERT LIST. 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 with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed.

SUBSECTION CATCH BASINS, HEADWALLS, AND ARMORING

5-25 CATCH BASINS

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

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

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

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by November 1. Purchaser shall construct waterbars according to the attached DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical distance of no more than 10 feet between waterbars or between natural drainage paths, and with a maximum spacing of 300 feet.

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

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

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
Zig Zag Pit	NE1/4 SE1/4 SW1/4 SW1/4 Section 2 T14N R6E W.M.	4 Inch In Place Quarry Spalls

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the ROCK LIST shall 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.

SUBSECTION ROCK SOURCE DEVELOPMENT

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

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

<u>Source</u>
Zig Zag Pit

6-12 ROCK SOURCE SPECIFICATIONS

Rock sources must be in accordance with the following specifications , unless otherwise specified in the ROCK SOURCE DEVELOPMENT PLAN:

- 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 25 feet.
- The surface of pit floors and benches must be uniform and free-draining at a minimum 2% outslope gradient except as approved by the Contract Administrator.
- 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.

6-14 DRILL AND SHOOT

Rock drilling and shooting must meet the following specifications:

- Additional oversize material remaining in the rock source at the conclusion of the timber sale may not exceed 5% of the total volume mined in that source.
- Oversize material is defined as rock fragments larger than 1.5 feet in any dimension.
- Oversized rock that exceeds the maximum allowable amount must be reduced to a smaller size within the rock source.
- Purchaser shall notify the Contract Administrator a minimum of 3 working days before blasting operations.
- Purchaser shall submit an informational drilling and shooting plan to the Contract Administrator within 3 working days after drilling.
- All operations must be carried out in compliance with 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 the Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- Purchaser shall block access roads before blasting operations.

SUBSECTION ROCK MANUFACTURE

6-20 ROCK CRUSHING OPERATIONS

Rock crushing operations must conform to the following specifications:

- Operations and placement of oversize material must be conducted in or near the rock source site, as approved in writing by the Contract Administrator.
- If a smooth roll crusher is used, the maximum size of material fed into it shall be equal to the largest size of the material coming out of it plus 8.5 percent of the roll radius.
- The crushing operation per pit must be concluded within 45 working days from the time it begins in that pit unless approved in writing by the Contract Administrator.

6-21 IN-PLACE PROCESSING

Purchaser may use in-place processing, such as a grid roller or other method, if suitable crushing can be demonstrated to meet the surfacing size-specified in Clause 6-38 4-INCH IN-PLACE ROCK. Purchaser shall remove any existing organic debris before the start of in-place crushing operations. The use of in-place processing methods is subject to written approval by the Contract Administrator.

6-23 ROCK GRADATION TYPES

Purchaser shall manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality when placed in hauling vehicles or during manufacture and placement into a stockpile. Purchaser shall provide a sieve analysis upon request from the Contract Administrator.

SUBSECTION ROCK GRADATIONS

6-28 1 ¼-INCH MINUS CRUSHED ROCK

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

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

6-38 4-INCH IN-PLACE ROCK

4-inch in-place rock must have a minimum of 90 percent of the top 4 inches of the running surface pass a 4-inch square opening.

In-place rock may not contain more than 5 percent by weight of organic debris and trash. No more than 50 percent of rock may be larger than 8 inches in any dimension and no rock may be larger than 12 inches in any dimension.

6-43 QUARRY SPALLS

% Passing 8" square sieve	100%
% Passing 3" square sieve	40% maximum
% Passing 3/4" square sieve	10% maximum

Rock may not contain more than 5 percent vegetative debris or trash. All percentages are by weight.

SUBSECTION ROCK MEASUREMENT

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of 4 INCH IN PLACE is defined as the compacted depth(s) using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are compacted yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction. Unless otherwise stated in Clause 6-75 OPTIONAL ROCK EXCEPTION.

6-57 ROCK MEASUREMENT BY TRUCK SCALE

Measurement of the 1-1/4 INCH MINUS CRUSHED rock is on scaled truck weight. Purchaser shall provide scaled weight using a commercial scale. Purchaser shall provide the Contract Administrator with all scale sheets.

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for subgrade including: ditches, headwalls, catch basins, culverts, energy dissipaters, ditch-outs, subgrade shaping and compacting before rock application.

6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. The Contract Administrator will direct locations for rock that is to be applied as spot patching. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

6-73 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(s), Purchaser may place less rock than shown on the ROCK LIST, when approved in writing by the Contract Administrator.

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

<u>Road</u>	<u>Stations</u>
2-1	0+00 to 34+05

SECTION 7 – STRUCTURES

SUBSECTION SIGNS

7-1 SIGN INSTALLATION

Purchaser shall acquire, install, and maintain the following road signs. Purchase shall remove signs from State Land at end of road closures and active operation and prior to the termination of this contract. Signs must comply with the Federal Highway Administration’s Manual on Uniform Traffic Control Devices.

<u>Road</u>	<u>Stations</u>	<u>Sign</u>	<u>Comment</u>
1	130+00 and 211+42	Active Logging Ahead	
11	7+56	Active Logging Ahead	

2	0+00 and 56+80	Road Closed. Active Logging	Install prior to road closure
County Road 390	0+00 and 55+18	Active Logging Ahead	
36T	1+90	Active Logging Ahead	Install just past gate

SUBSECTION BRIDGE MAINTENANCE

7-30 BRIDGE MAINTENANCE

Purchaser shall conduct bridge maintenance as listed.

<u>Road</u>	<u>Station</u>	<u>Requirements</u>
1	64+60 to 70+60	Clean deck prior to haul. Maintain clean bridge deck during haul. Clean bridge deck after haul is complete.
1	209+30 to 209+80	Clean deck prior to haul. Maintain clean bridge deck during haul. Clean bridge deck after haul is complete.
11	37+65 to 38+35	Clean deck prior to haul. Maintain clean bridge deck during haul. Clean bridge deck after haul is complete.

SUBSECTION GATE CLOSURE

7-70 GATE CLOSURE

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

<u>Road</u>	<u>Station</u>	<u>Gate No.</u>
Zig Zag Pit	0+60	404
11	1+00	419

7-71 GATE CLOSURE DURING HAUL

On the following road(s), Purchaser shall keep gates closed and locked except for passing vehicles. If Purchaser elects to use an alternate plan for gate security, Purchaser shall submit a detailed plan to the Contract Administrator for written approval.

<u>Road</u>	<u>Station</u>	<u>Gate No.</u>
36T	1+90	417

SECTION 8 – EROSION CONTROL

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soil listed in SECTION 9 POST HAUL ROAD WORK at a rate of 50 pounds per acre of exposed soil. Grass seed must meet the following specifications:

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

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

SECTION 9 – POST-HAUL ROAD WORK

SUBSECTION STRUCTURES

9-1 EARTHEN BARRICADES

Purchaser shall construct barricades in accordance with the BARRICADE DETAIL.

<u>Road</u>	<u>Stations</u>
2-1	0+00

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

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

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Additional Requirements</u>
1	64+60 to 70+60	Clean bridge deck
1	209+30 to 209+80	Clean bridge deck
11	37+65 to 38+35	Clean bridge deck
1	0+00 to 211+42	Grading, shaping, and compaction of road surface. Clean ditches.
County Road 390	0+00 to 55+18	Grading, shaping, and compaction of road surface. Clean ditches.
11	0+00 to 51+00	Grading, shaping, and compaction of road surface. Clean ditches.
11-1	0+00 to 1+50	Grading, shaping, and compaction of road surface, if used
Zig Zag	0+00 to 8+37	Grading, shaping, and compaction of road surface. Clean ditches.
2	0+00 to 56+80	Grading, shaping, and compaction of road surface. Clean ditches.
36T	0+00 to 54+00	Grading, shaping, and compaction of road surface. Clean ditches.
36T	54+00 to 57+50	Grading, shaping, and compaction of road surface, if used Clean ditches, if used.
36T-4	0+00 to 5+88	Grading, shaping, and compaction of road surface. Clean ditches.

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-21 ROAD ABANDONMENT

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

<u>Road</u>	<u>Stations</u>
2-1	0+00 to 34+05

9-22 ABANDONMENT

- Remove road shoulder berms.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical drop of no more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 100 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.
- Block roads with earthen barricades in accordance with the attached BARRICADE DETAIL.
- Remove culverts.
- Remove ditch cross drain culverts and leave the resulting trench open.
- Slope all trench walls and approach embankments no steeper than 1.5:1.
- Remove all culverts in natural drainages. The resulting slopes must be 2:1 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.
- Apply grass seed to all exposed soils within 50 feet of any live water resulting from the abandonment work and in accordance with Section 8 EROSION CONTROL.

SECTION 10 MATERIALS

SUBSECTION CULVERTS

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.

10-22 PLASTIC BAND

lastic 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.

SECTION 11 SPECIAL NOTES

11-1 ROAD USE PERMIT REQUIREMENTS

On the following road, all road work shall be completed in accordance to Pierce County Permit #080624-A. Temporary erosion and sediment control plan shall be in-place prior to starting work.

<u>Road</u>	<u>Stations</u>
County Road 390	0+00 to 55+18

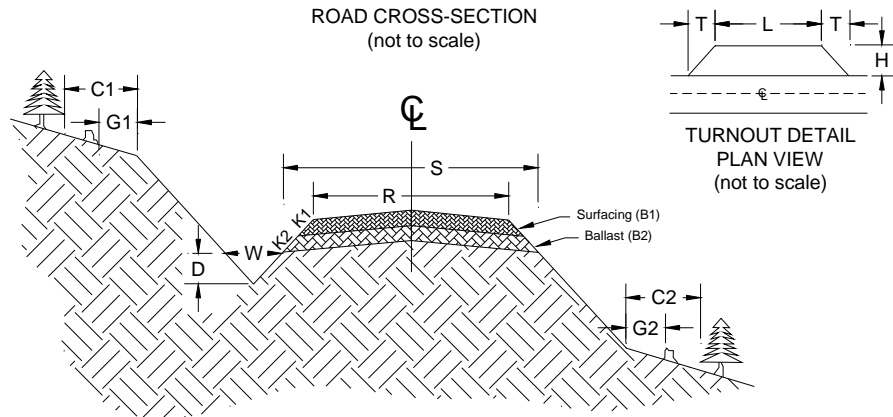
11-2 ADDITIONAL BRUSHING REQUIREMENTS

On the County Road 390 additional brushing requirements are as follows:

- From Stations 13+45 to 39+90: No vegetation outside the county right of way may be cut. Purchaser shall not cut any tree greater than 3 inches DBH without written approval from the Contract Administrator.
- All brushing debris shall be removed from the County Right of Way and placed on DNR land outside the County Right of Way.

- Tree stumps shall be ground to match the existing grade or be cut to within 4-inches maximum height of the ground and at a face cut that matches the slope of the existing road side area.
- After brushing has been completed, the applicant shall place gravel in the shoulder area and grass seed or hydro seed the disturbed road side areas prior to requesting final inspection.

TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width (feet)	Road Width (feet)	Ditch*		Crown in. @ CL	Grubbing Limits (feet)		Clearing Limits (feet)	
						Width (feet)	Depth (feet)		G1	G2	C1	C2
				S	R	W	D		G1	G2	C1	C2
1	0+00	211+42	A	-	14	2	1	4	-	-	5	5
11	0+00	51+00	A	-	12	2	1	4	-	-	5	5
11-1	0+00	1+50	A	-	12	2	1	4	-	-	5	5
Zig Zag Pit	0+00	8+37	A	-	12	2	1	4	-	-	5	5
2	0+00	56+80	A	-	14	2	1	4	-	-	5	5
2-1	0+00	34+05	C	15	12	2	1	4	-	-	0	0
36T	0+00	54+00	A	-	14	2	1	4	-	-	5	5
36T	54+00	57+50	C	15	12	2	1	4	-	-	0	0
36T-4	0+00	5+88	A	15	12	2	1	4	-	-	5	5
County Road 390	0+00	39+90	A	-	Varies from 12 to 20	2	1	4	-	-	5	5
County Road 390	39+90	44+90	A	15	12	2	1	4	-	-	5	5
County Road 390	44+90	55+18	A	-	Varies from 12 to 20	2	1	4	-	-	5	5

Note: Turnout dimensions: T = 25 feet; L = 50 feet; H = 10 feet

COMPACTION LIST

Road	From Station	To Station	Type	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
All new construction and reconstruction			Culvert Installations	12	Smooth Drum Vibratory Roller	14,000	4 low freq. with Vibe on	3
			Embankment	12				
			Fill & select borrow	12				
			Subgrade					
			Rock	12				
			Waste Area	12				
All pre-haul and post haul			After grading existing road surface and prior to rocking					
			Culvert Installations	12				
			Rock	6				

ROCK LIST
BALLAST

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y. Station	# of Stations	C.Y. Sub-total	Rock Source
			K2	B2	4 Inch In place			
2-1*	0+00	34+05	1.5:1	12"	50	34.05	1703	Zig Zag
36T*	54+00	57+50	1.5:1	12"	50	3.5	175	
Landings*							600	
Quarry Spalls for culvert installations. See Culvert List.							12	

BALLAST TOTAL: 2490 Cubic yards

SURFACE

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y. per Station	# of Stations	C.Y. Subtotal	Comments Rock Source
			K2	B2	1-1/4 Inch Minus Crushed			
County Road 390	39+90	44+90	1.5:1	12"	50	5	250	Commercial Source. Measure by scale.
County Road 390	As directed by the CA for spot rocking						400	Commercial Source. Measure by scale.
					4 Inch In Place			
36T	6+42	7+42	1.5:1	6"	33	1	33	Zig Zag Pit
	16+60	17+60	1.5:1	6"	33	1	33	Zig Zag Pit
	19+35	20+35	1.5:1	6"	33	1	33	Zig Zag Pit
	23+00	24+00	1.5:1	6"	33	1	33	Zig Zag Pit
	45+70	46+70	1.5:1	6"	33	1	33	Zig Zag Pit
36T-4	0+00	1+00	1.5:1	6"	33	1	33	Zig Zag Pit
36T	As directed by the CA for spot rocking						170	Zig Zag Pit

SURFACE TOTAL: 368 cubic yards Zig Zag
SURFACE TOTAL: 650 cubic yards Commercial

*Optional Rock: Purchaser is allowed the following rock depths from State owned rock sources, but application of rock is not required.

NOTE: 4 Inch In Place yardages are estimated on a compacted (In-Place) basis. Compliance of required rock will be based on compacted depth measurement. **Apply appropriate factors to determine loose amounts for estimating purposes.** Rock needed for the County Road 390 shall come from a commercial source at Purchaser's expense.

CULVERT AND DRAINAGE LIST

Road Number	Location	Culvert		Length (ft)			Riprap (C.Y.)			Backfill Material*	Placement Method*	Const. Staked*	Remarks
		Dia. (in)	Type	Culvert	Downspt	Flume	Inlet	Outlet	Type				
2-1	3+25	18	TEMP	30			0.5	0.5	QS	NT			
	3+84	24	TEMP	30			0.5	0.5	QS	NT		Seep	
	5+70	18	TEMP	30			0.5	0.5	QS	NT			
	6+04	36	TEMP	30			0.5	0.5	QS	NT		Type 4 Stream	
	8+50	18	TEMP	30			0.5	0.5	QS	NT		Ditch out outlet	
	9+03	24	TEMP	30			0.5	0.5	QS	NT		Seep	
	11+12	18	TEMP	30			0.5	0.5	QS	NT		Ditch out outlet	
	22+13	18	TEMP	30			0.5	0.5	QS	NT			
	31+42	18	TEMP	30			0.5	0.5	QS	NT			
36T	6+42	18	PD	30			0.5	0.5	QS	NT			
Contingency culverts		18	PD	30			0.5	0.5	QS	NT			
		18	PD	30			0.5	0.5	QS	NT			

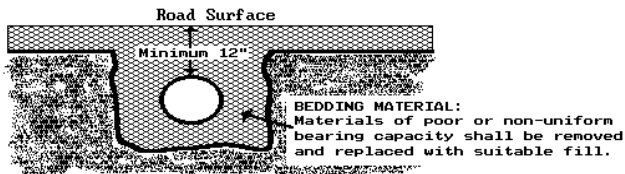
* SEE CULVERT AND DRAINAGE SPECIFICATION DETAIL

PD = Polyethylene Pipe Dual Wall AASHTO No. M294 Type S or ASTM F2648
 TEMP = Temporary Culvert

Key:

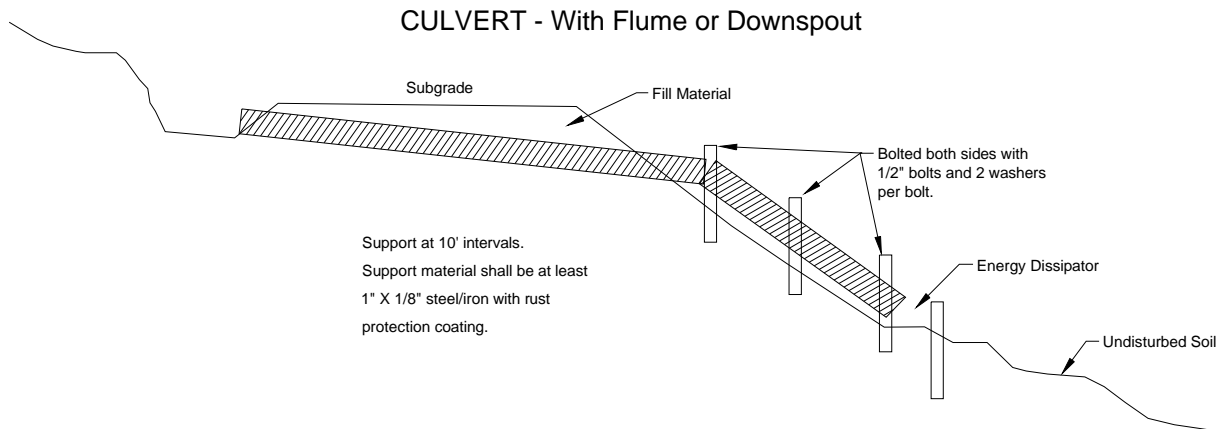
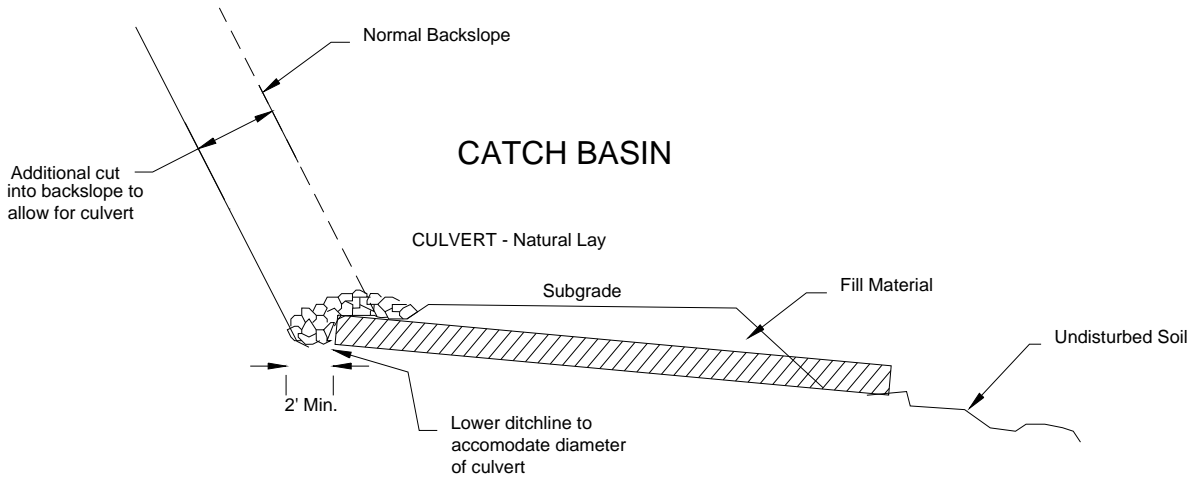
- QS - Quarry Spalls
- SR - Shot Rock
- NT - Native (bank run)
- SL - Select Fill
- HL - Heavy Loose Riprap
- LL - Light Loose Riprap
- Flume - Half round pipe
- Downsput - Full round pipe

CULVERT BACKFILL AND BASE PREPARATION
 (For culverts less than 36')



CULVERT AND DRAINAGE SPECIFICATION DETAIL

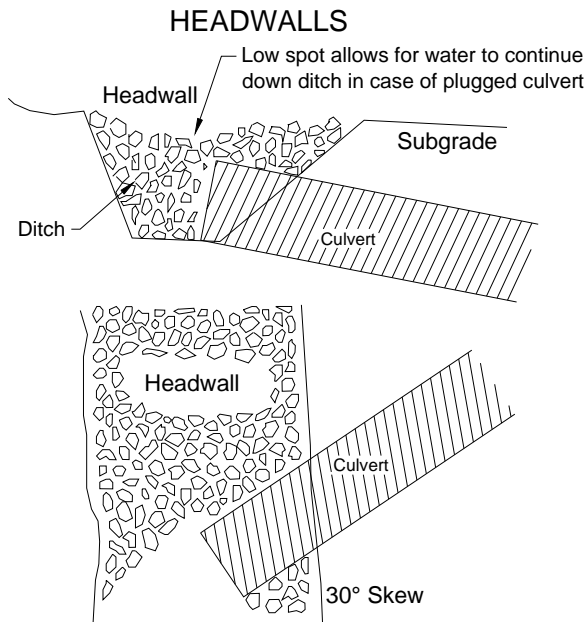
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CULVERT AND DRAINAGE SPECIFICATION DETAIL

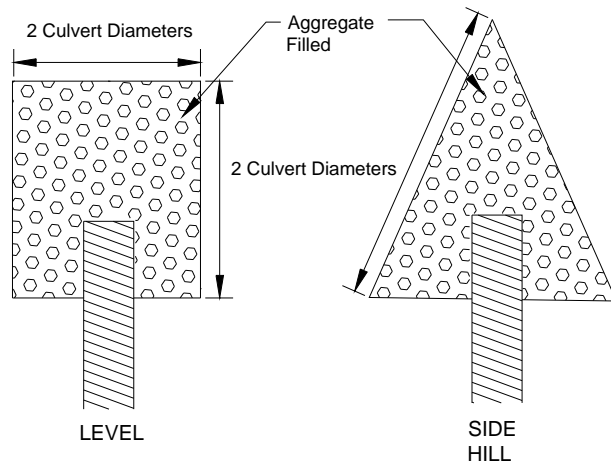
(Page 2 of 3)

Proper preparation of foundation and placement of bedding material shall precede the installation of all culvert pipe. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform dense unyielding base. The backfill material shall be placed so that the pipe is uniformly supported along the barrel.



Headwalls to be constructed of material that will resist erosion.

ENERGY DISSIPATORS



Dissipator Specifications:
Depth: 1 culvert diameter
Aggregate: as specified in the
CULVERT LIST.

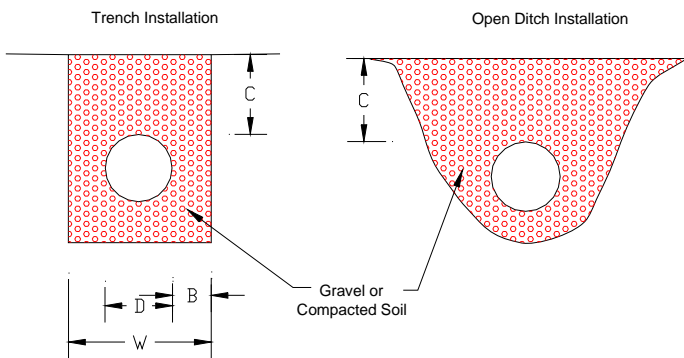
CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 3 of 3)

POLYETHYLENE PIPE INSTALLATION

INSTALLATION REQUIREMENTS:

1. Crushed stone, gravel, or compacted soil backfill material shall be used as the bedding and envelope material around the culvert. The aggregate size shall not exceed 1/6 pipe diameter or 4" diameter, whichever is smaller.
2. The corrugated pipe shall be laid on grade, on a layer of bedding material as shown for the two types of installations. If native soil is used as the bedding and backfill material, it shall be well compacted in six inch layers under the haunches, around the sides and above the pipe to the recommended minimum height of cover.
3. Either crushed aggregate or flexible (asphalt) pavement may be laid as part of the minimum cover requirements.
4. Site conditions and availability of bedding materials often dictate the type of installation method used.
5. The load bearing capability of flexible conduits is dependent on the type of backfill material used and the degree of compaction achieved. Crushed stone and gravel backfill materials typically reach a compaction level of 90-95% AASHTO standard density without compaction. When native soils are used as backfill material, a compaction level of 85% is required. This minimum compaction can be achieved by either hand or mechanical tamping.



MINIMUM DIMENSIONS *Trench or Open Ditch Installation*

Nominal Diameter	Minimum Thickness	Minimum Cover	Min. Trench Width
D	B	C	W
18"	6"	12"	36"
24"	6"	12"	42"
30"	6"	12"	48"
36"	6"	12"	54"

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, page 1 of 2

Cuts and Fills

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

Surface

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

Drainage

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

Preventative Maintenance

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

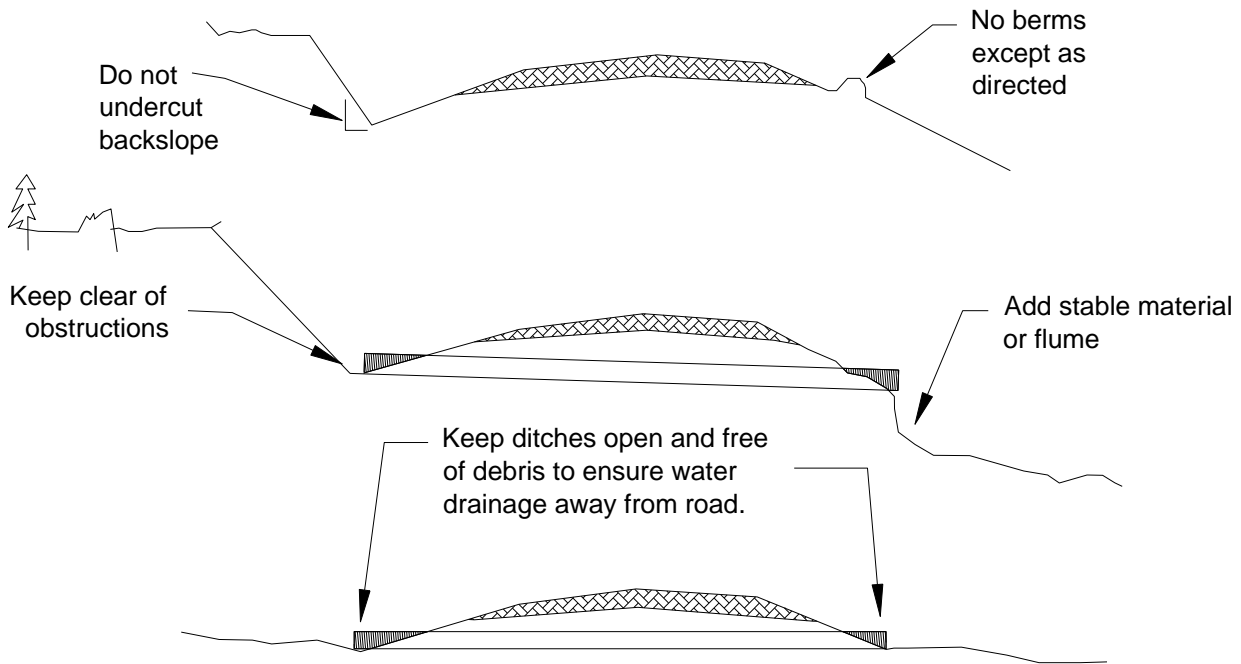
FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, page 2 of 2

Termination of Use or End of Season

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

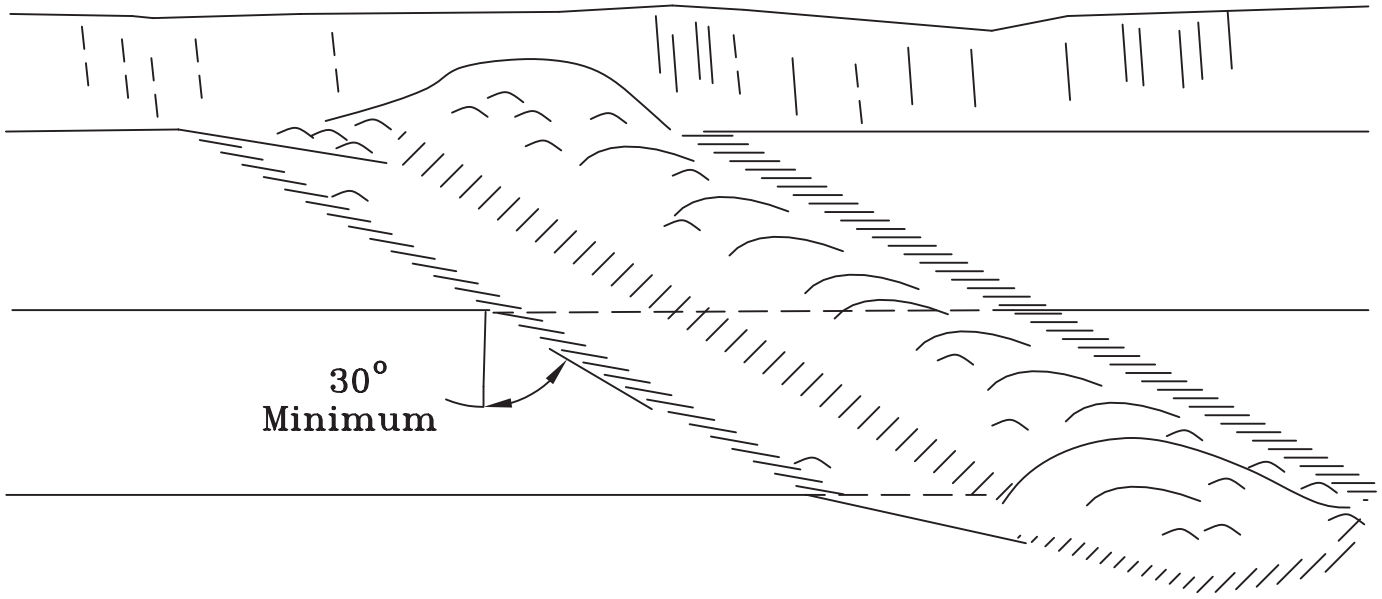
Debris

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

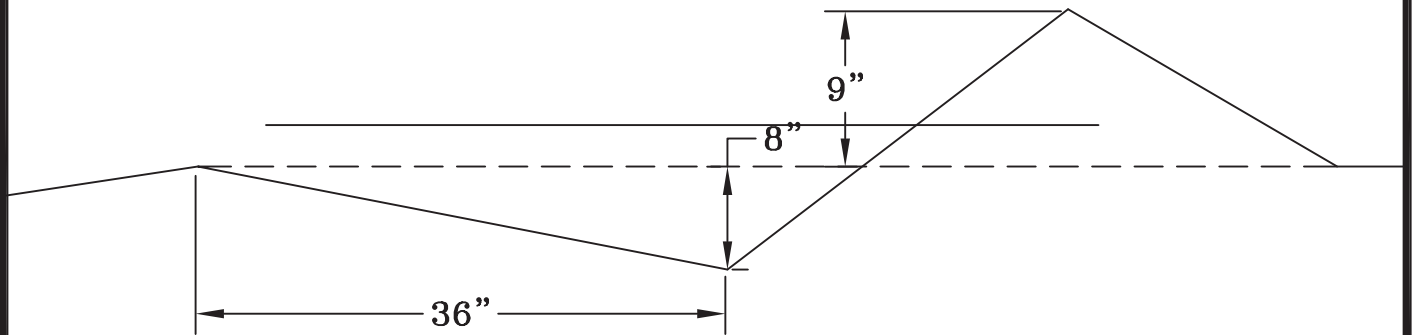


Drivable Water Bar Detail

Cross Ditch



Cross Section at Centerline

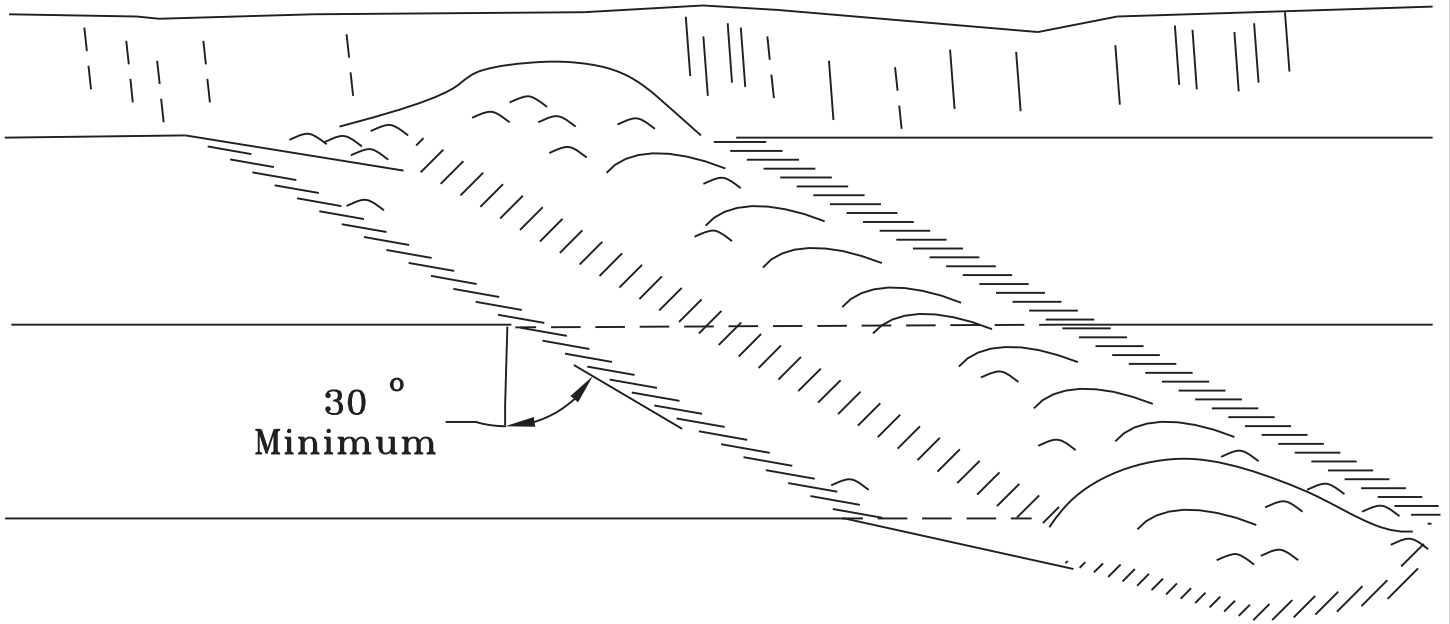


Drivable Water Bar Detail

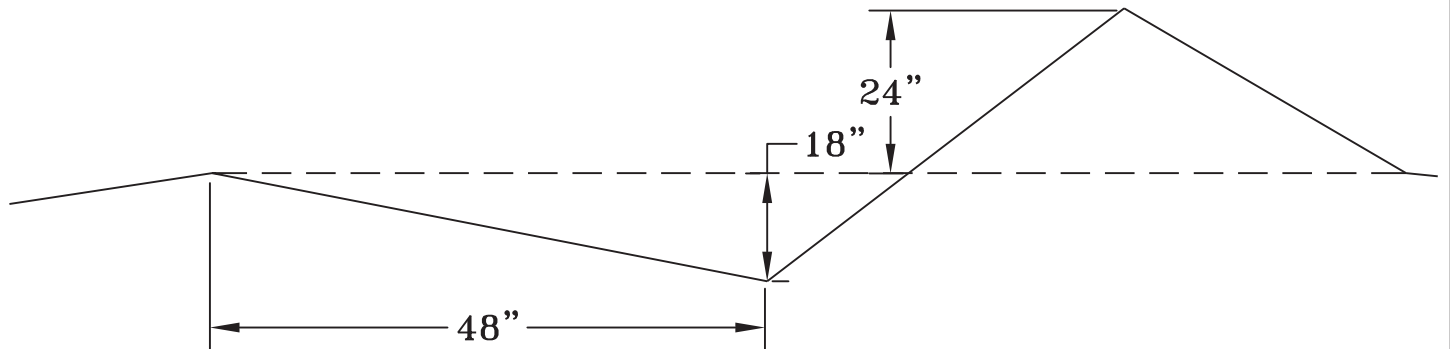
Scale : None
Drawn by: M.A.D.

Non-Drivable Water Bar Detail

Cross Ditch



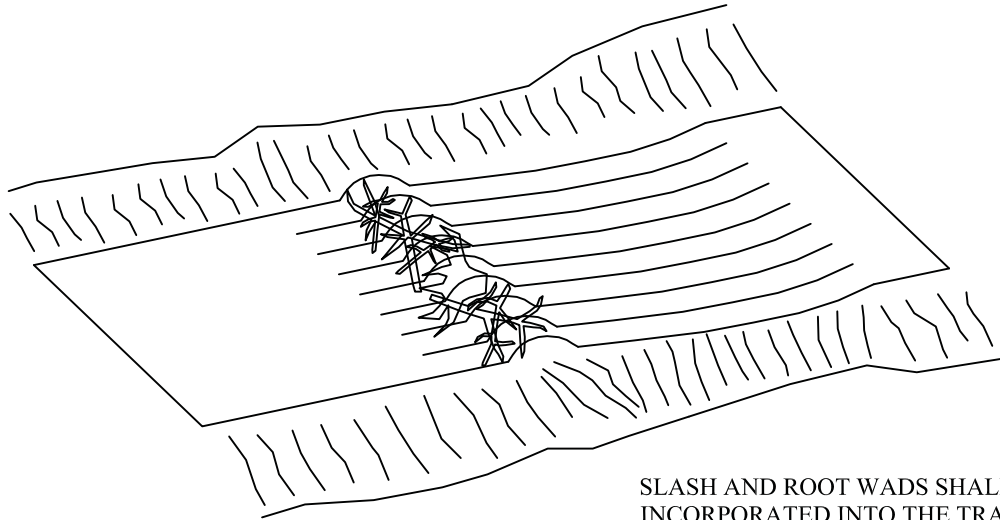
Cross Section at Centerline



Non-Drivable Water Bar Detail

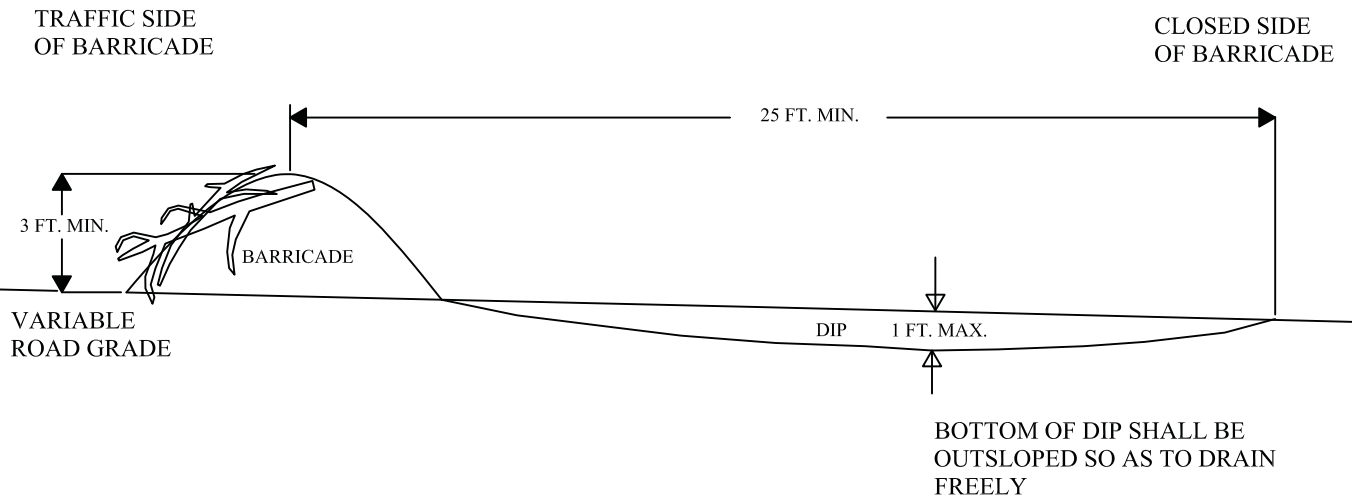
Scale : None
Drawn by: M.A.D.

BARRICADE DETAIL



SLASH AND ROOT WADS SHALL BE INCORPORATED INTO THE TRAFFIC SIDE OF THE BARRICADE.

PLAN VIEW



TRAFFIC SIDE OF BARRICADE

CLOSED SIDE OF BARRICADE

3 FT. MIN.

25 FT. MIN.

VARIABLE ROAD GRADE

BARRICADE

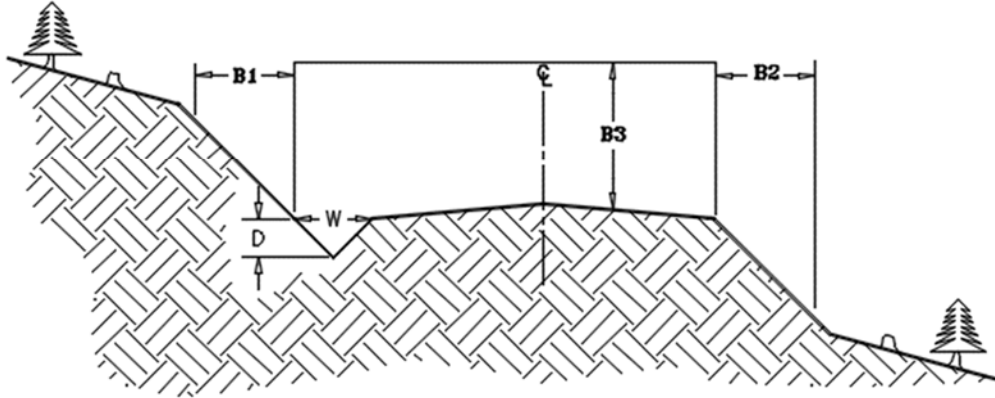
DIP

1 FT. MAX.

BOTTOM OF DIP SHALL BE OUTSLOPED SO AS TO DRAIN FREELY

PROFILE VIEW

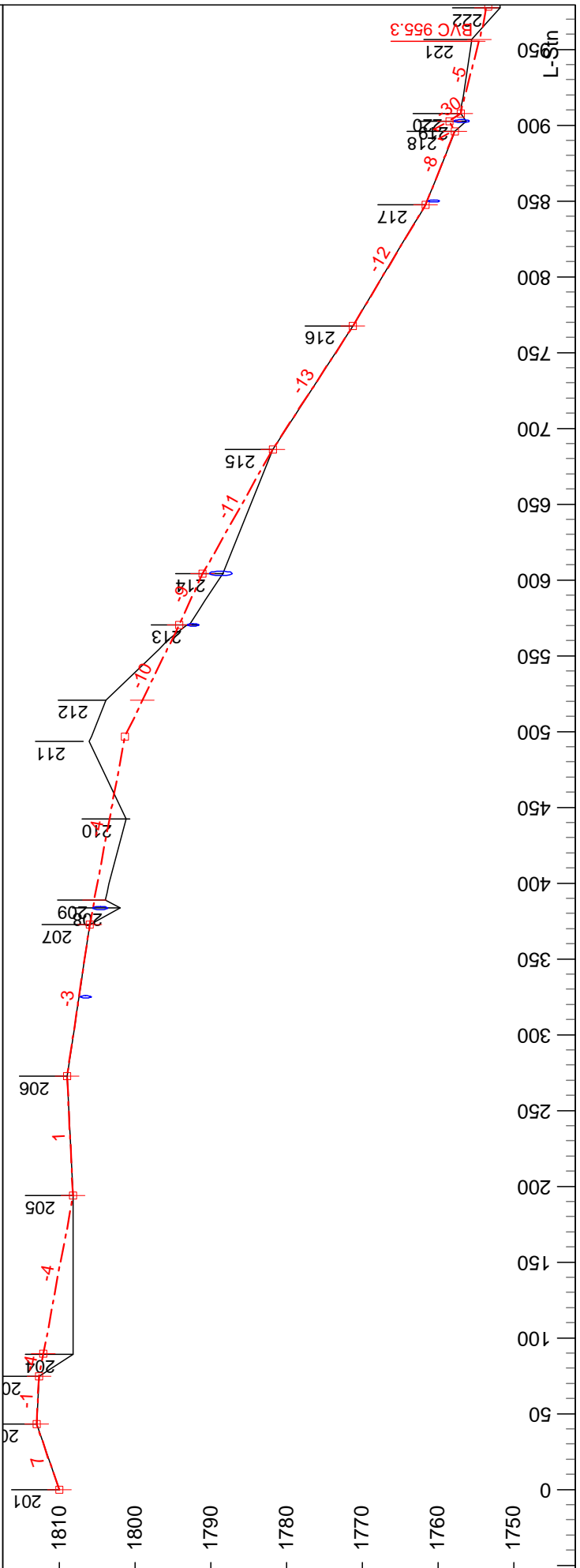
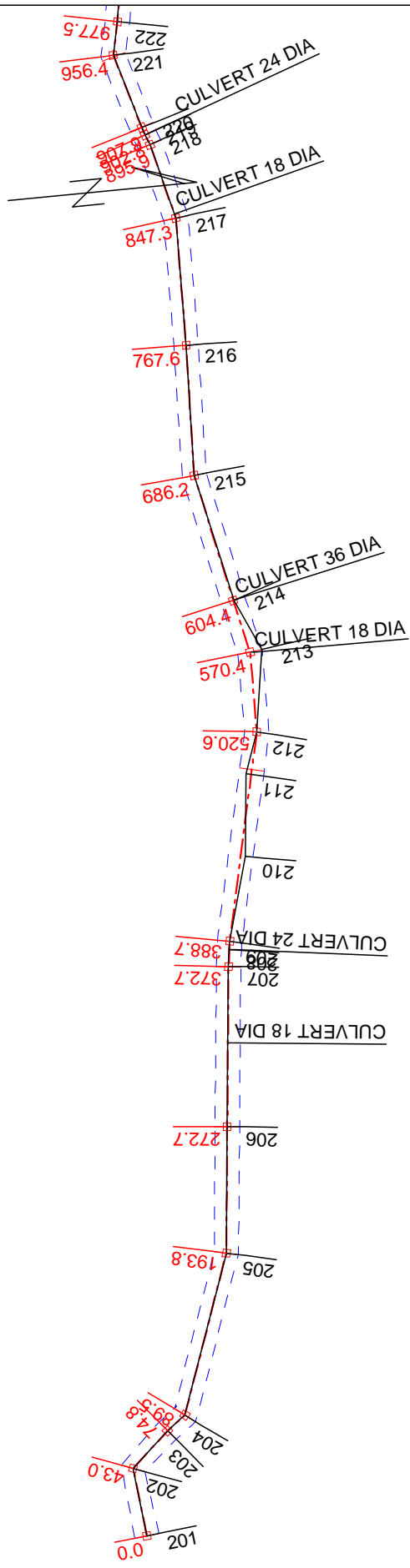
BRUSHING DETAIL (not to scale)



BRUSHING LIST

Road Number	Road Width (feet)	Ditch		Brushing Limits (feet)			Remarks
		Width (feet)	Depth (feet)				
		W	D	B1	B2	B3	
All roads in Clause 3-1	12	2	1	5	5	14	<u>In addition to brushing...</u> Cut brush an extra 5 feet on the inside of curves to provide extra visibility on switchbacks and curves. See Clause 11-1 Additional Brushing Requirements for additional requirements on County Road 390.

B1 extends horizontally the specified distance in feet from the back of the ditch. B2 extends horizontally the specified distance in feet from the outside edge of the running surface. Brush is defined as all non-merchantable vegetative material found within the specified limits. Brush that is cut shall be removed to the downhill side of the road and placed such that it will not block ditches, ditch-outs, or drainage structures. Signs, culvert location markers, culverts or any other identification features damaged by brushing shall be replaced at the Purchasers expense. Stumps shall not be greater than 3 inches tall after brushing.

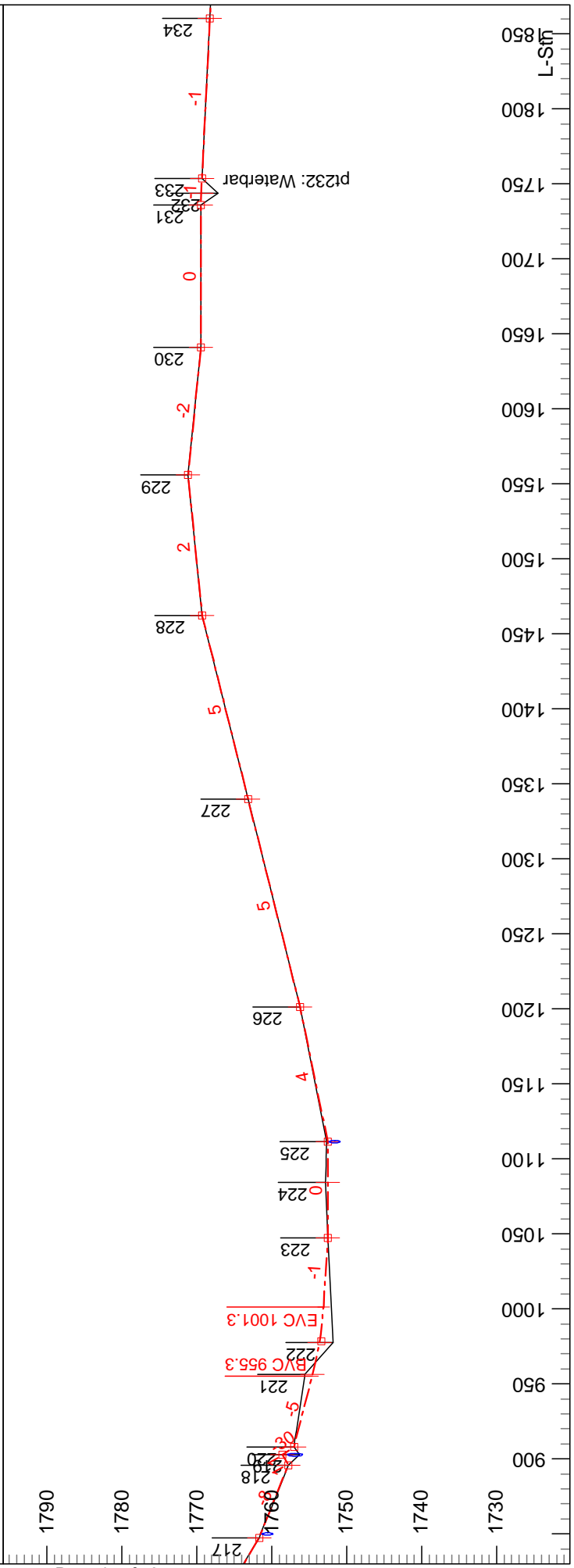
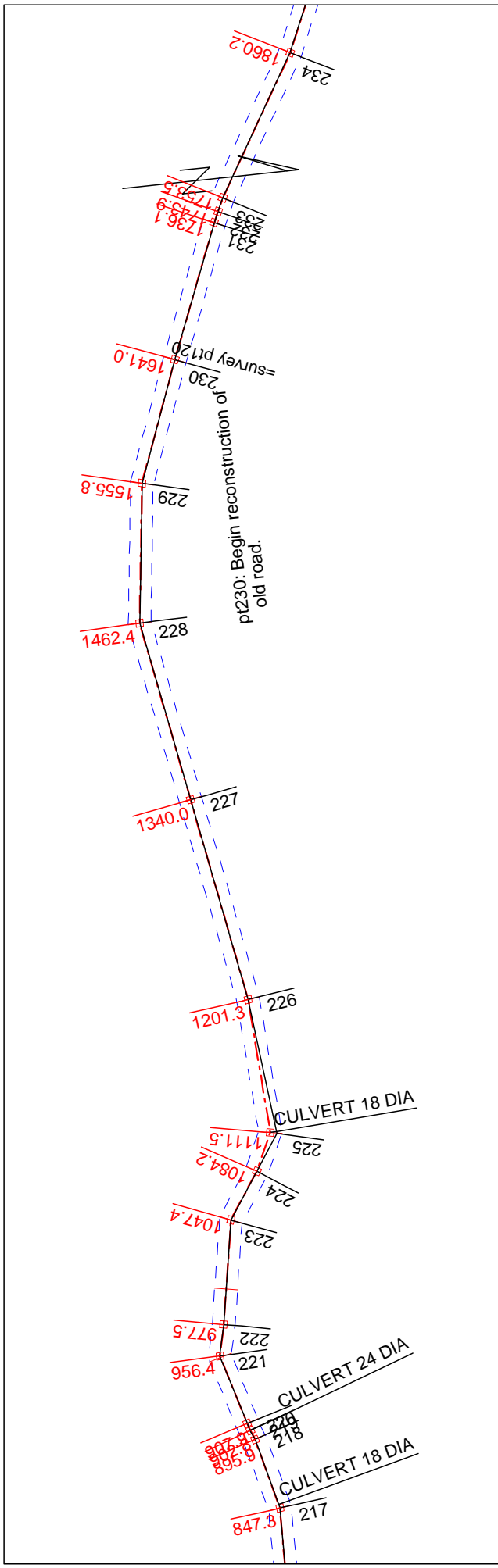


Engineer: M. Bell
 Page 1 of 14
 Printed: 24/08/30

Plan Scale 1:1200
 Profile Vert Scale 1:240
 Profile Horz Scale 1:1200

Washington State Department of
 Natural Resources
 South Puget Sound Region

Rockit Launch SWT Timber Sale
 2-1 Road
 7/12/2024
 Contract #: 30-106713

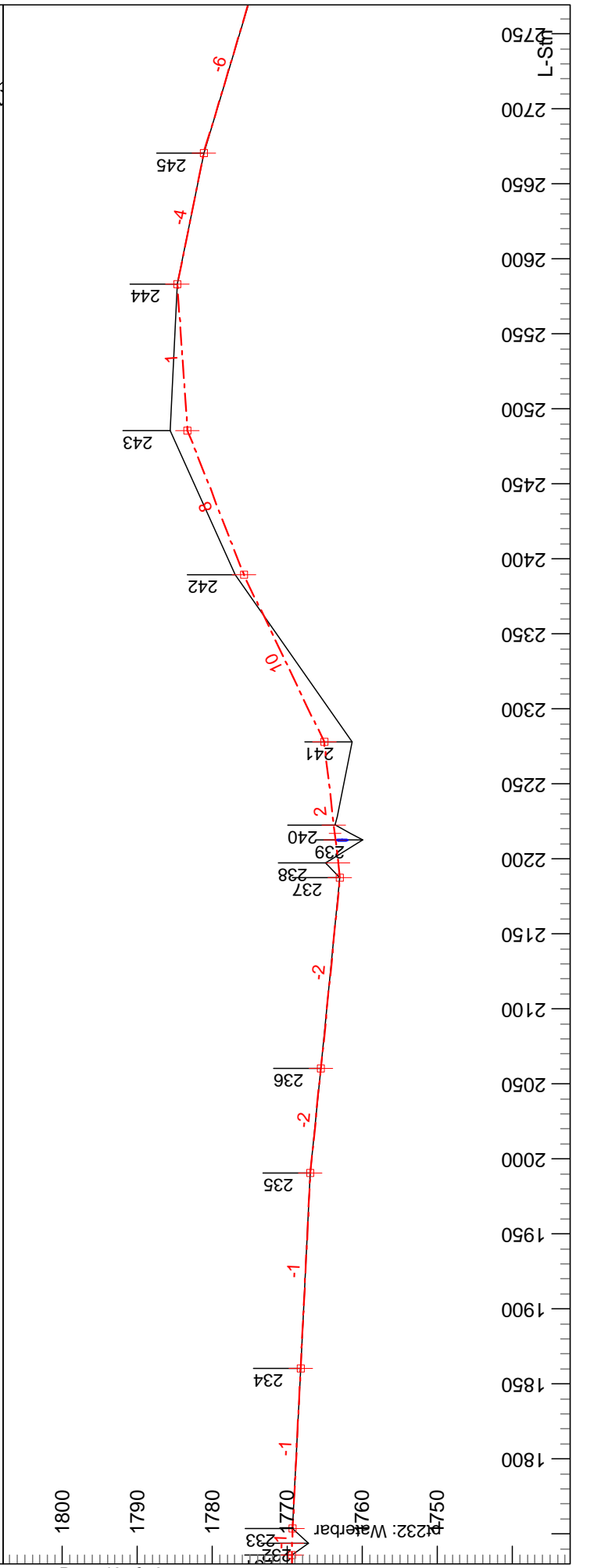
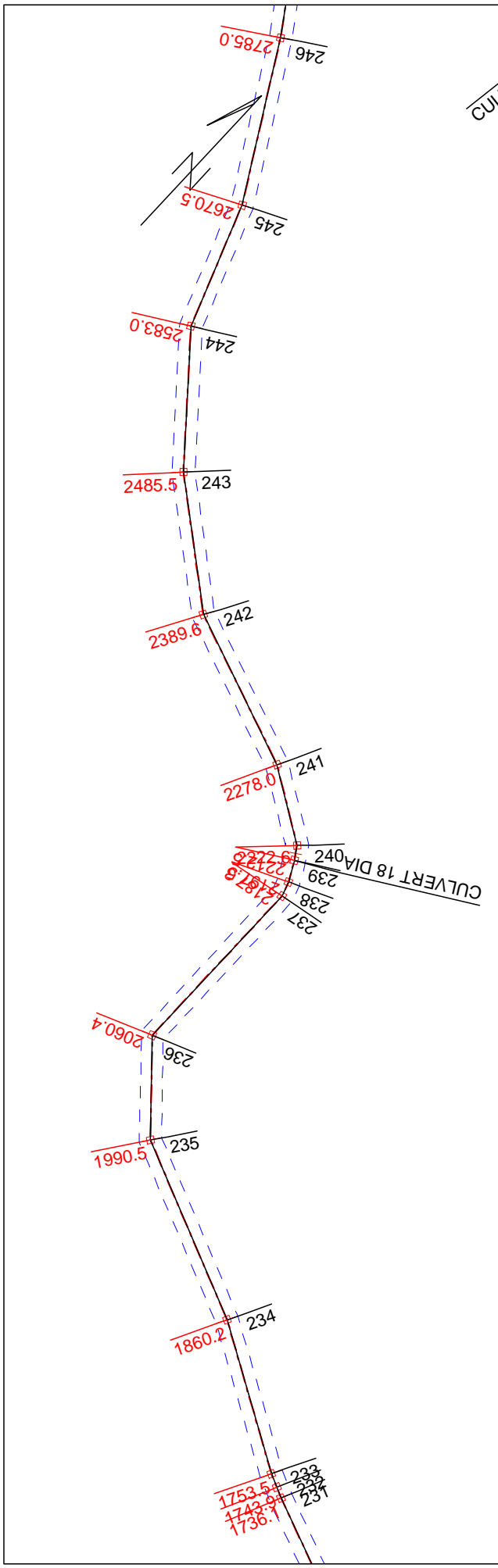


Engineer: M. Bell
 Page 2 of 14
 Printed: 24/08/30

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 Profile Horz Scale 1:1200

Washington State Department of
 Natural Resources
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Rockit Launch SWT Timber Sale
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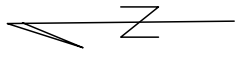
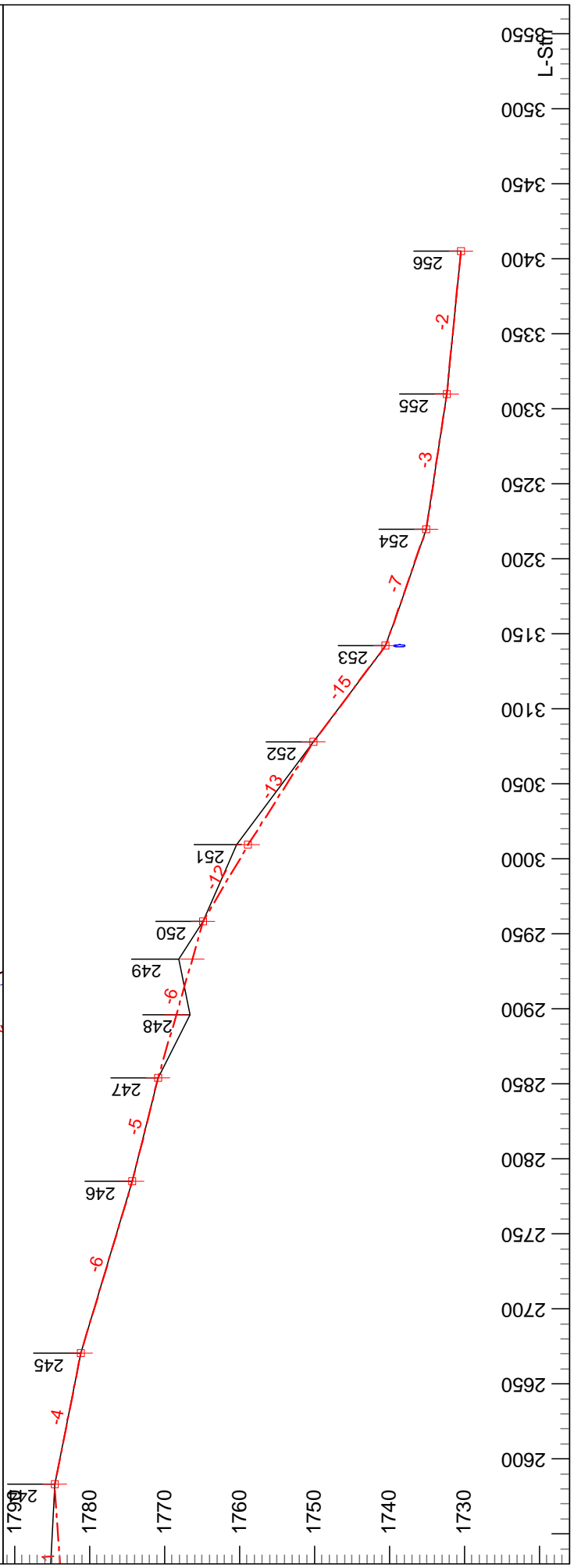
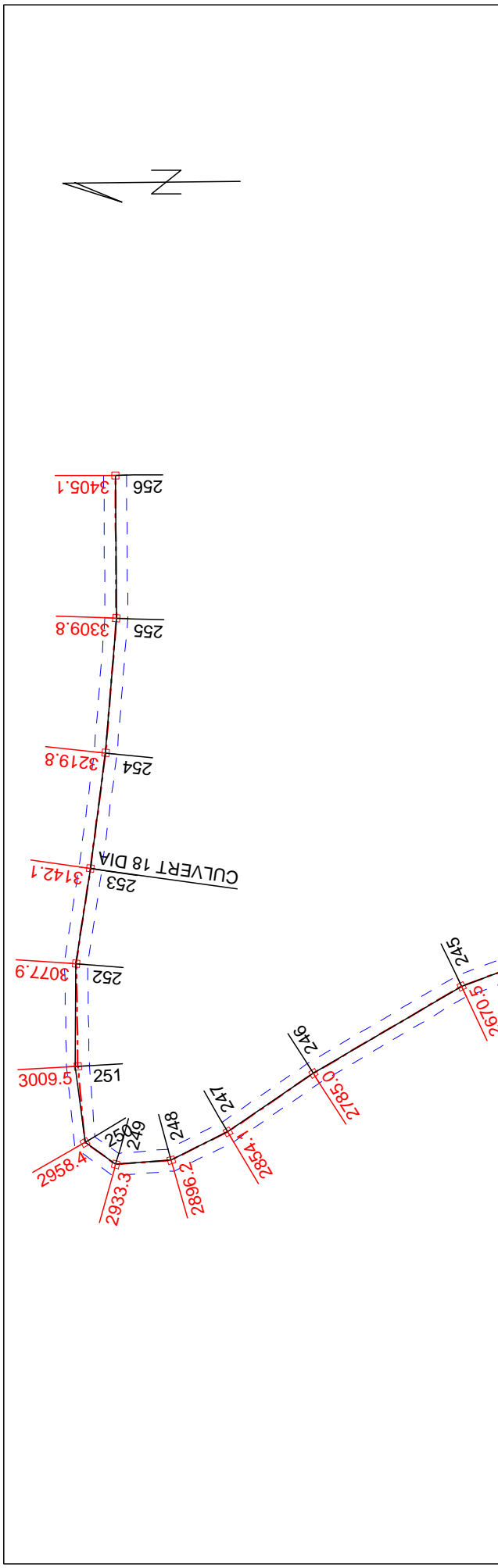


Engineer: M. Bell
 Page 3 of 14
 Printed: 24/08/30

Plan Scale 1:1200
 Profile Vert Scale 1:240
 Profile Horz Scale 1:1200

Washington State Department of
 Natural Resources
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Rockit Launch SWT Timber Sale
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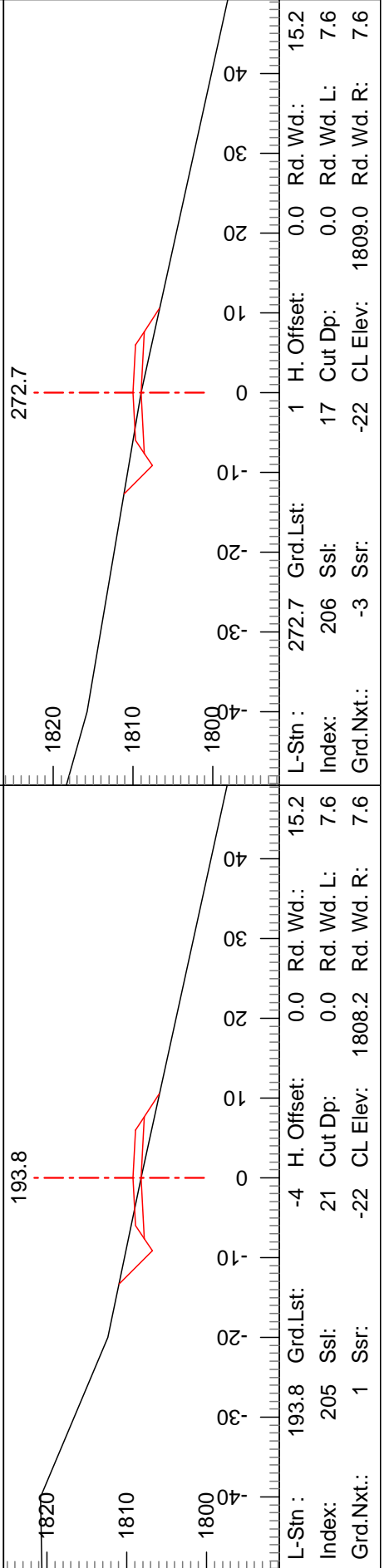
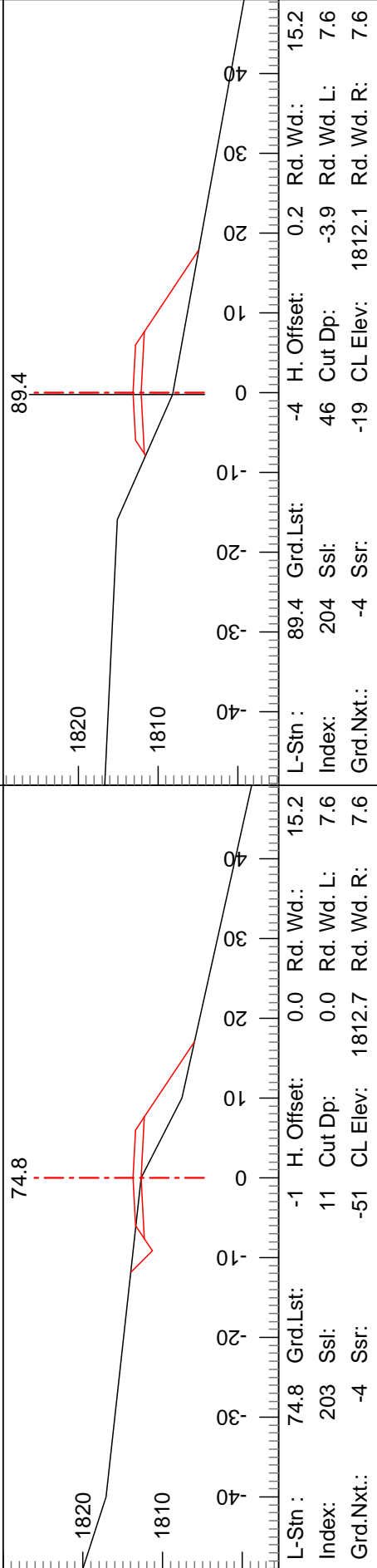
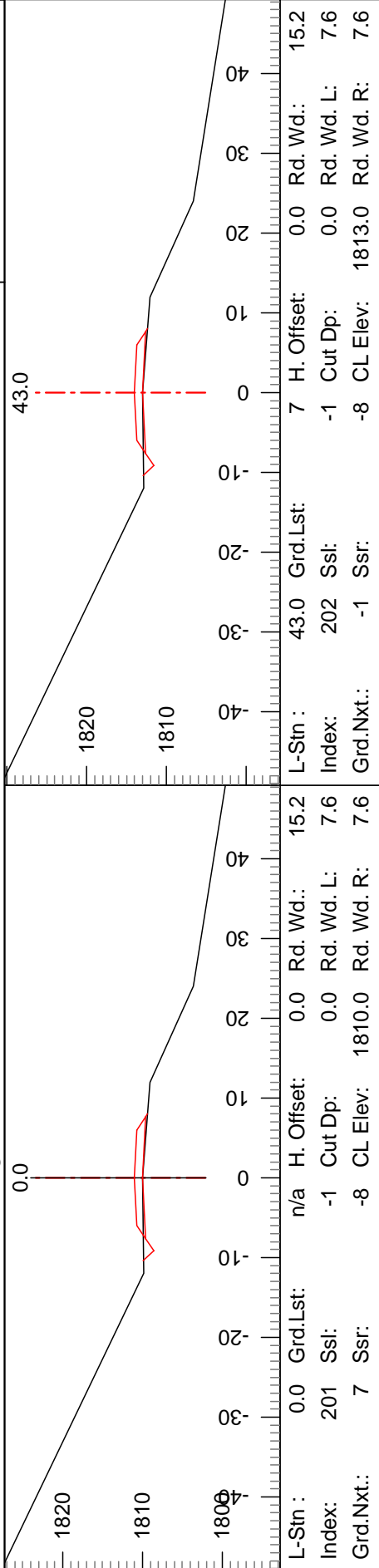


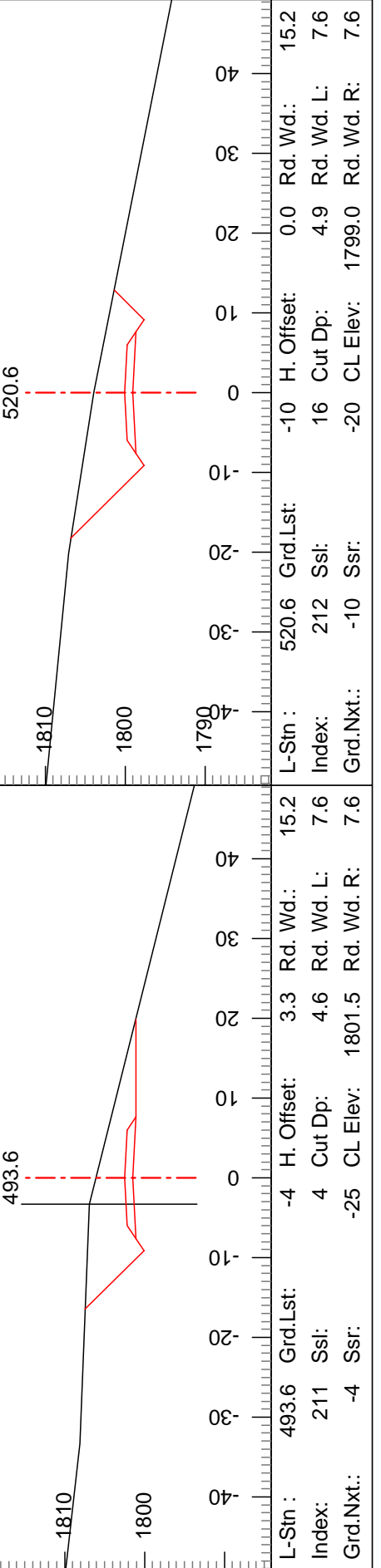
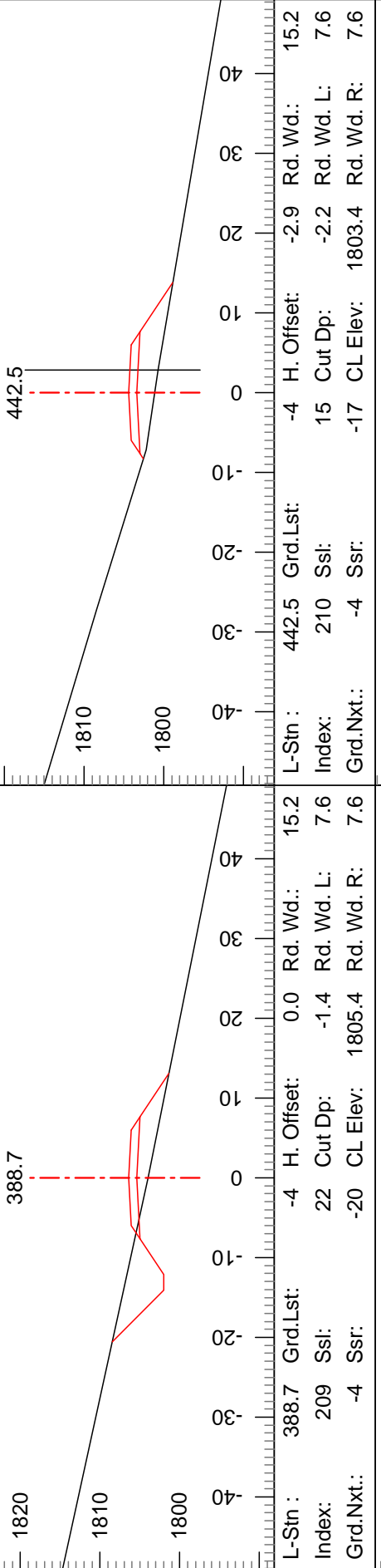
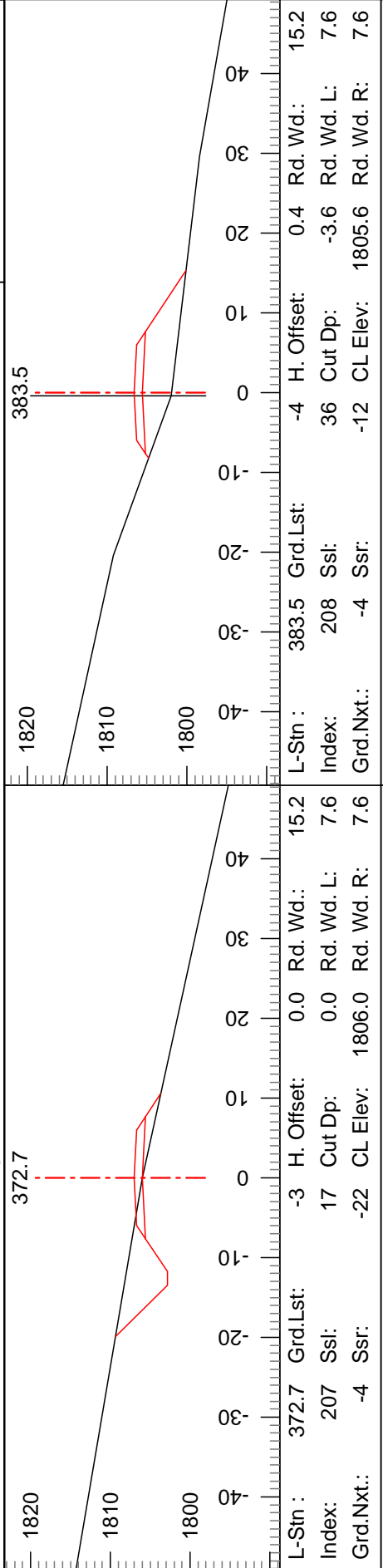
Engineer: M. Bell
 Page 4 of 14
 Printed: 24/08/30

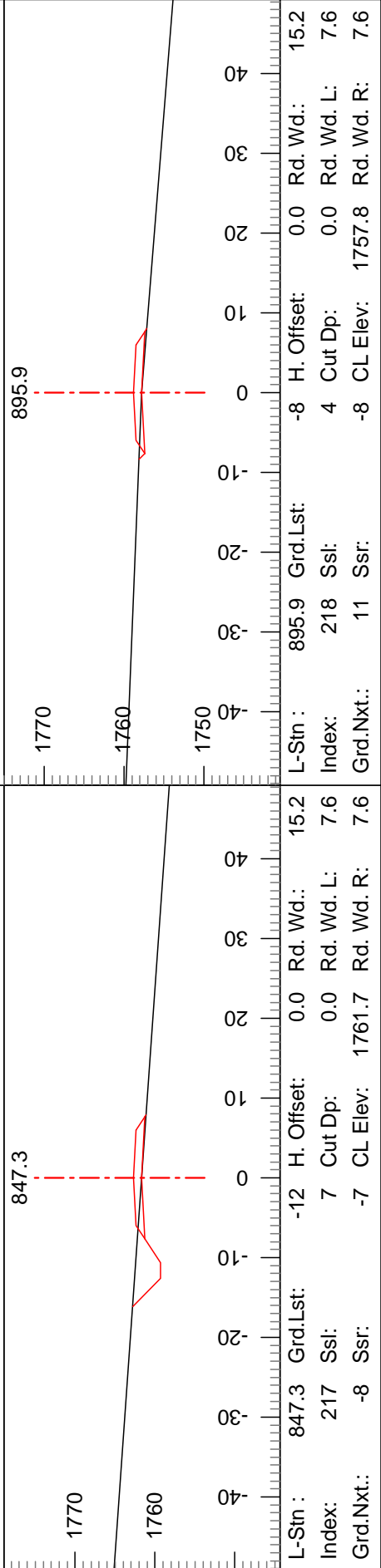
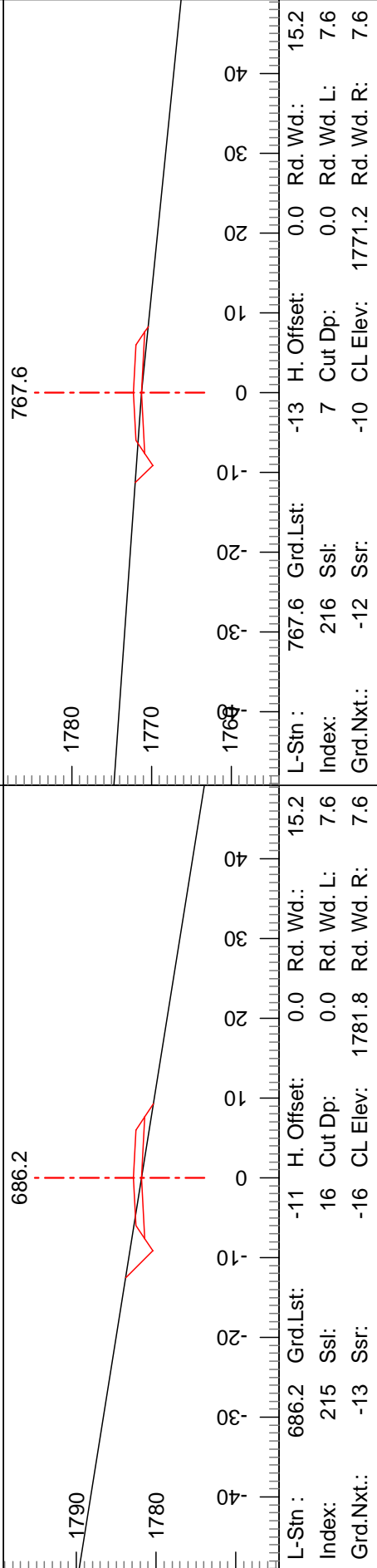
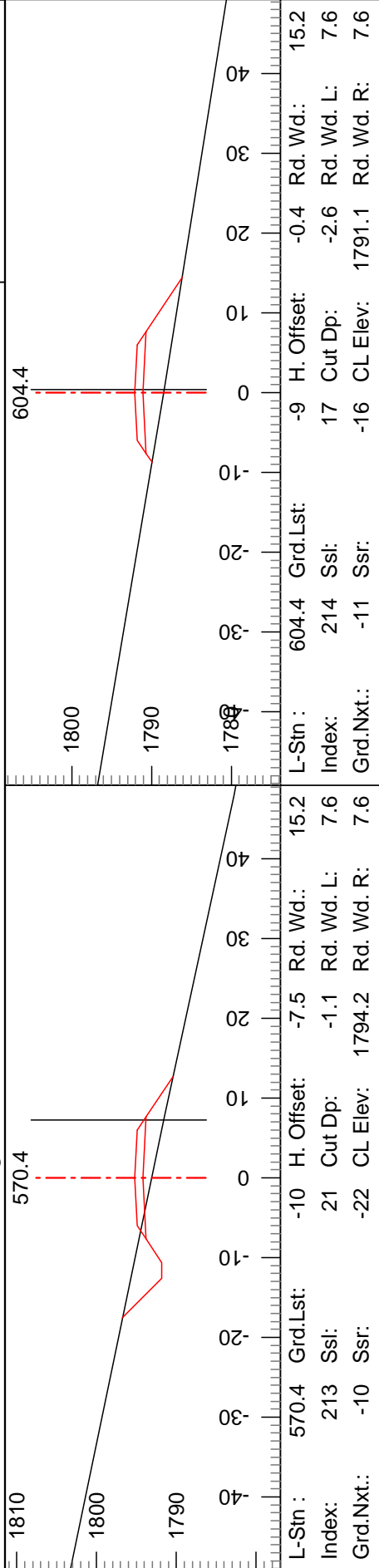
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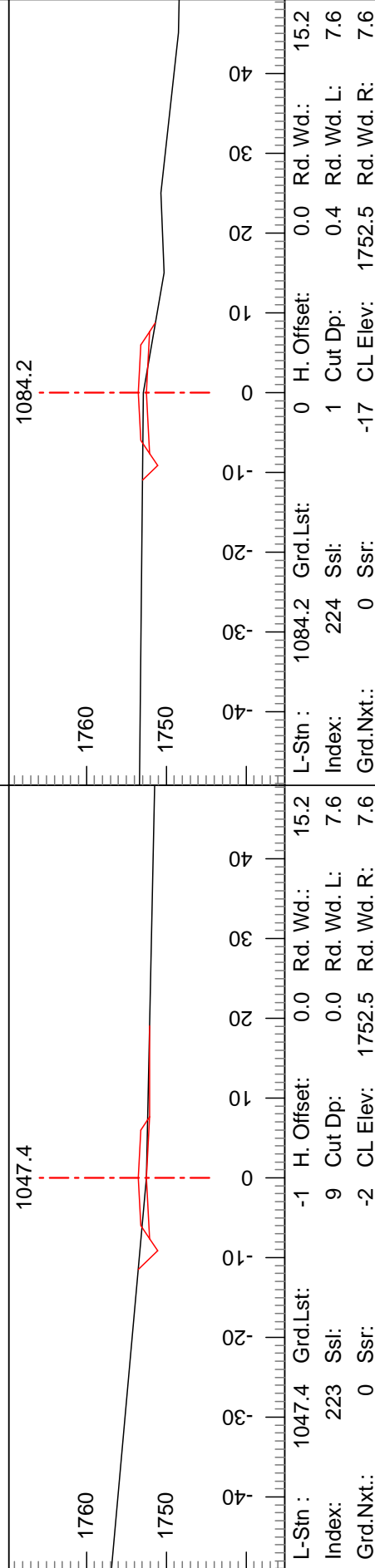
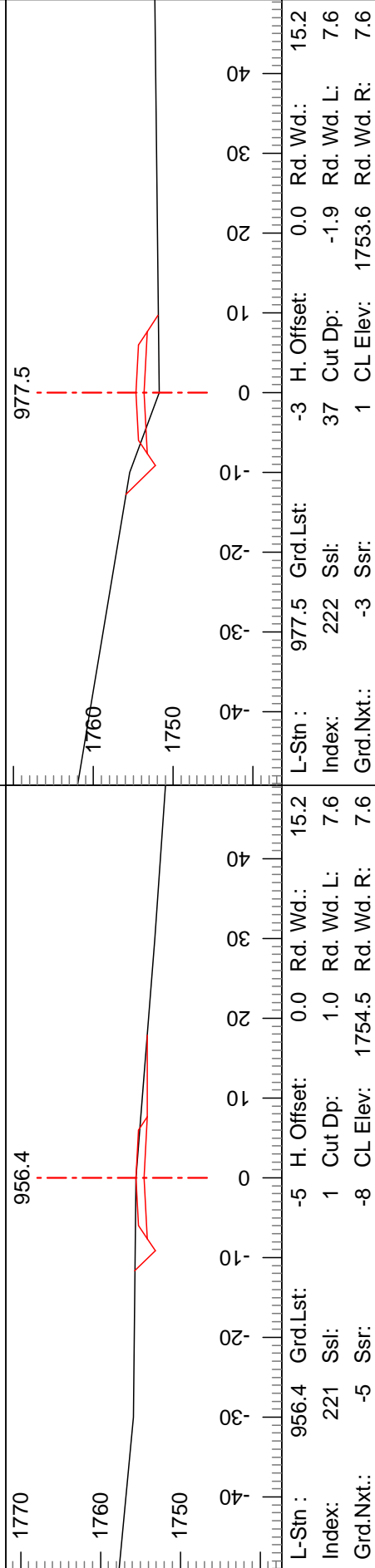
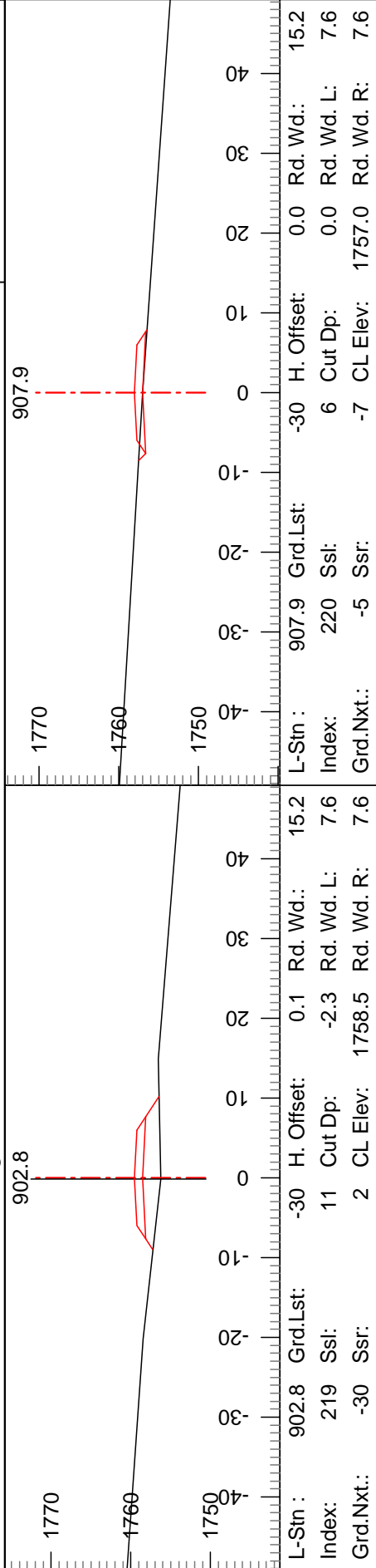
Washington State Department of
 Natural Resources
 South Puget Sound Region

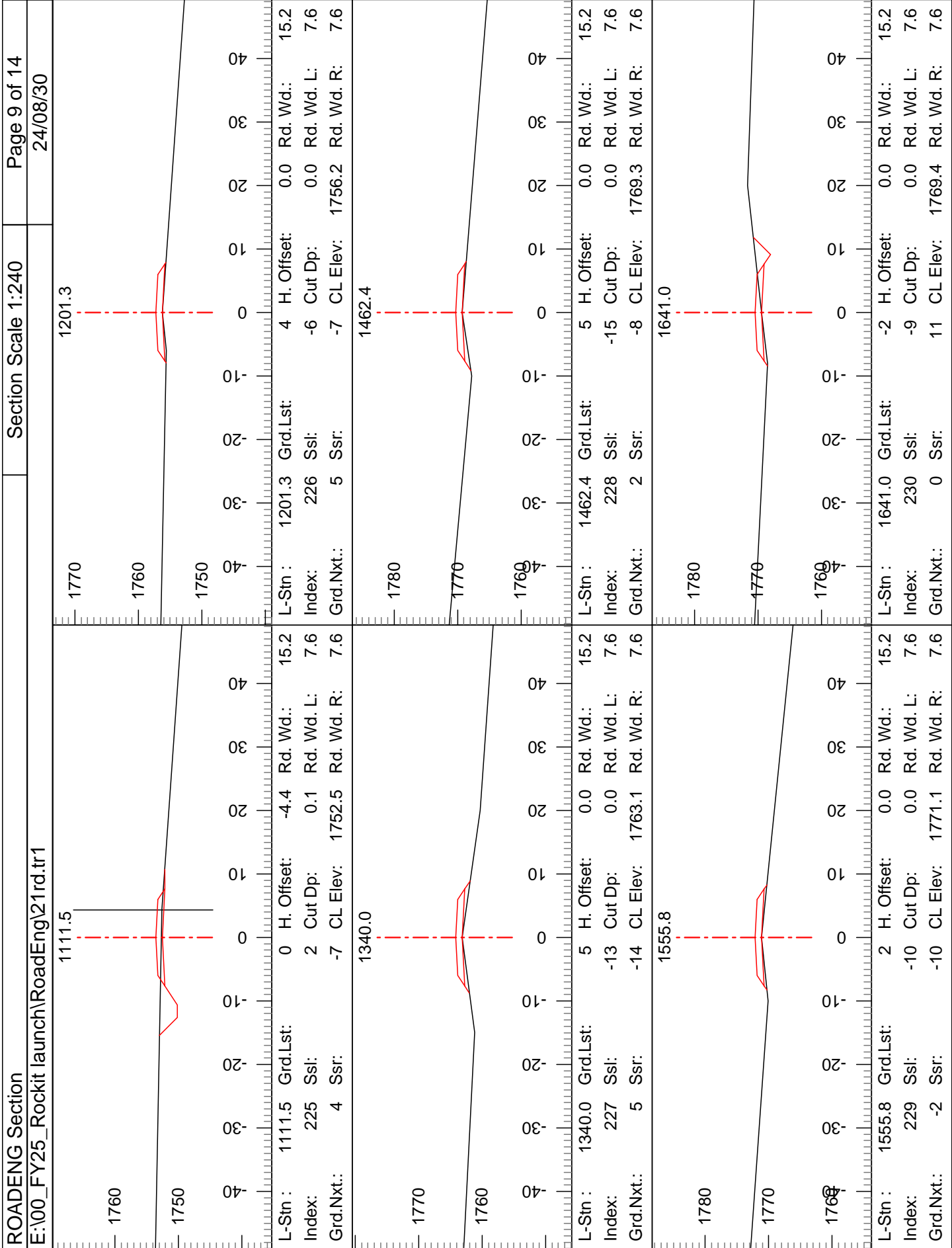
Rockit Launch SWT Timber Sale
 2-1 Road
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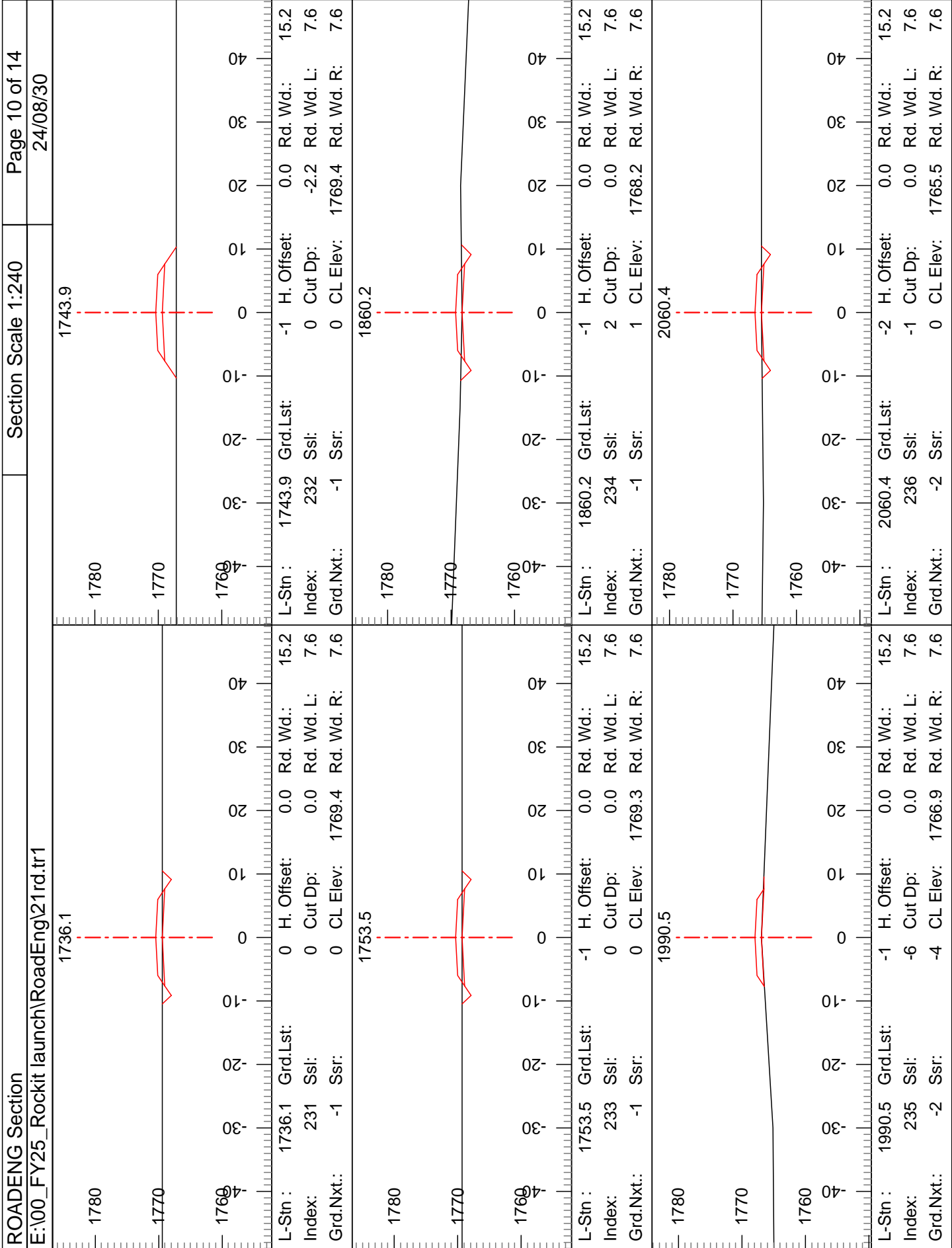


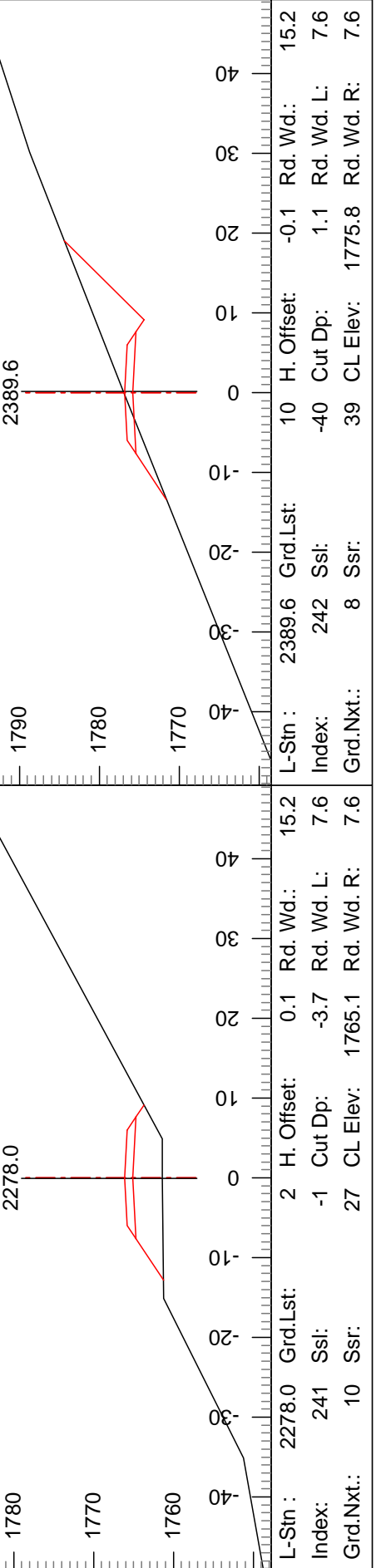
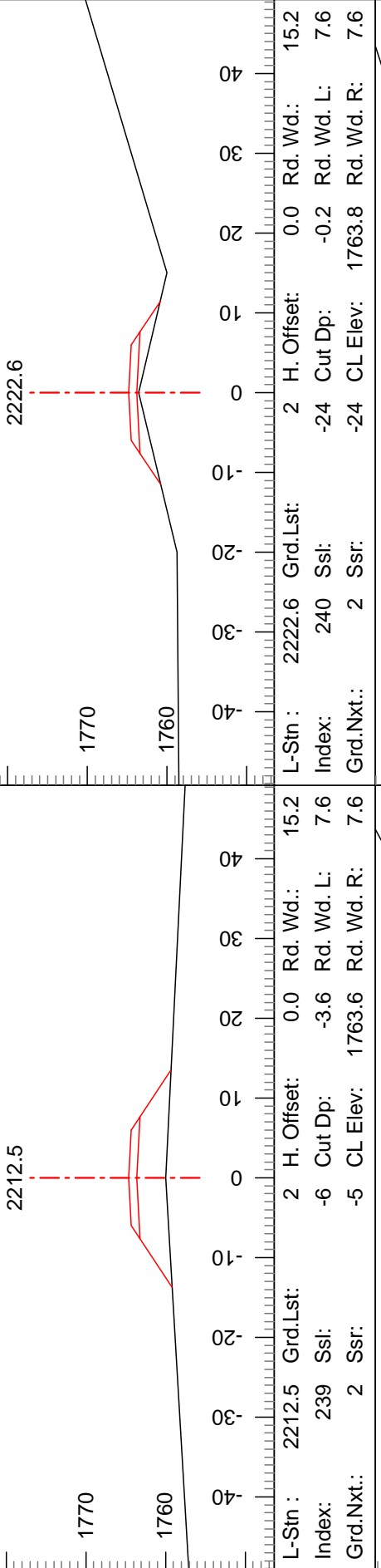
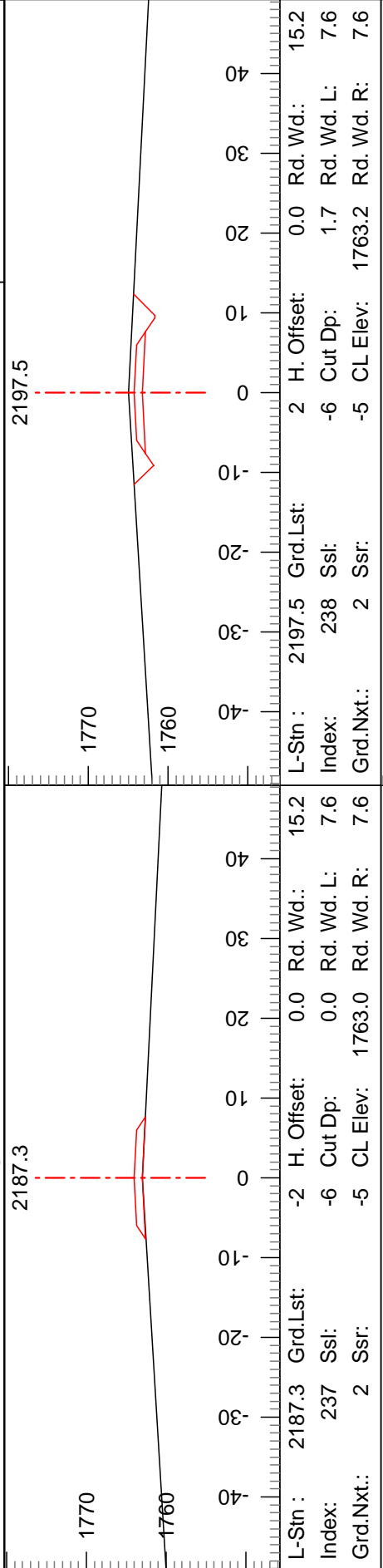


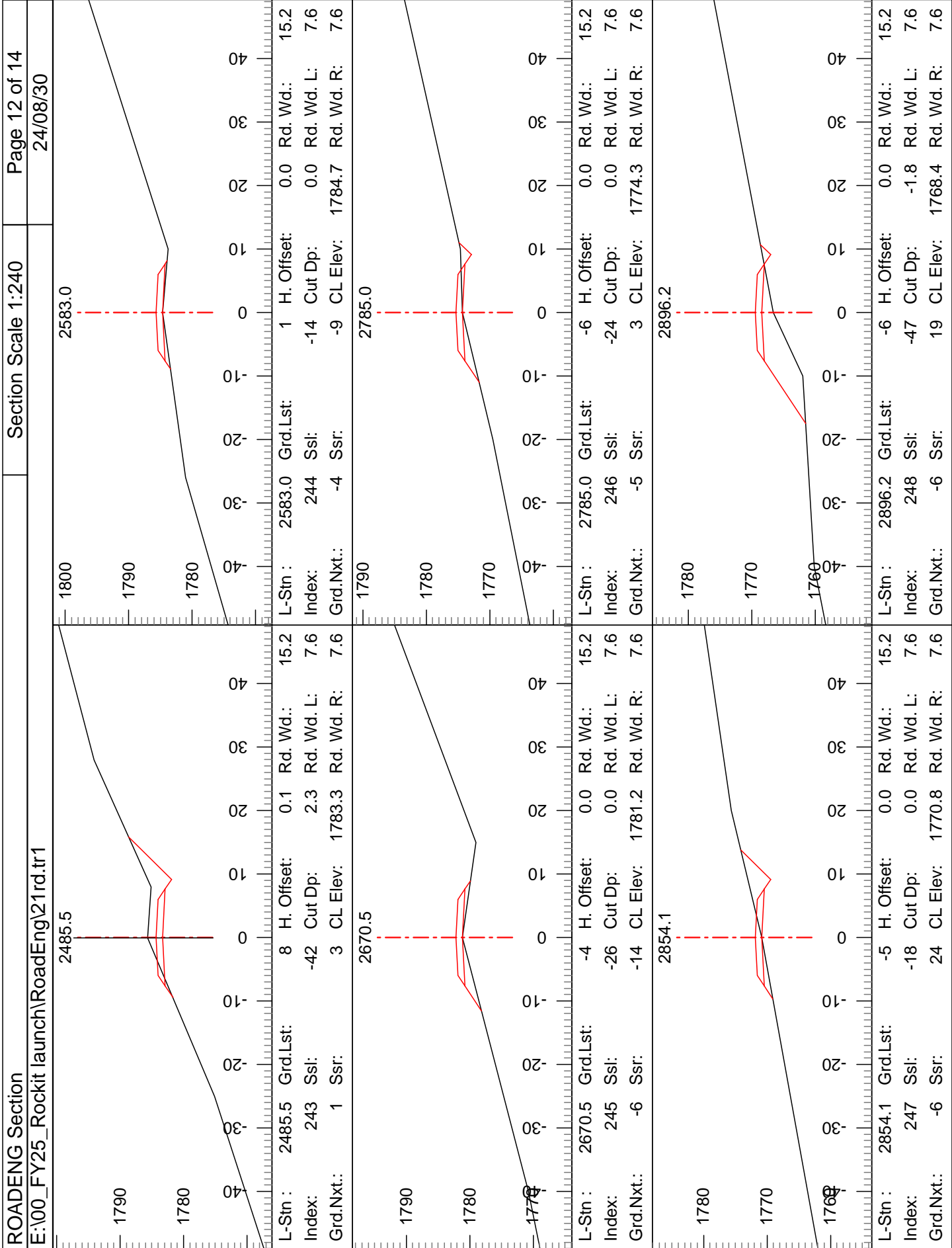


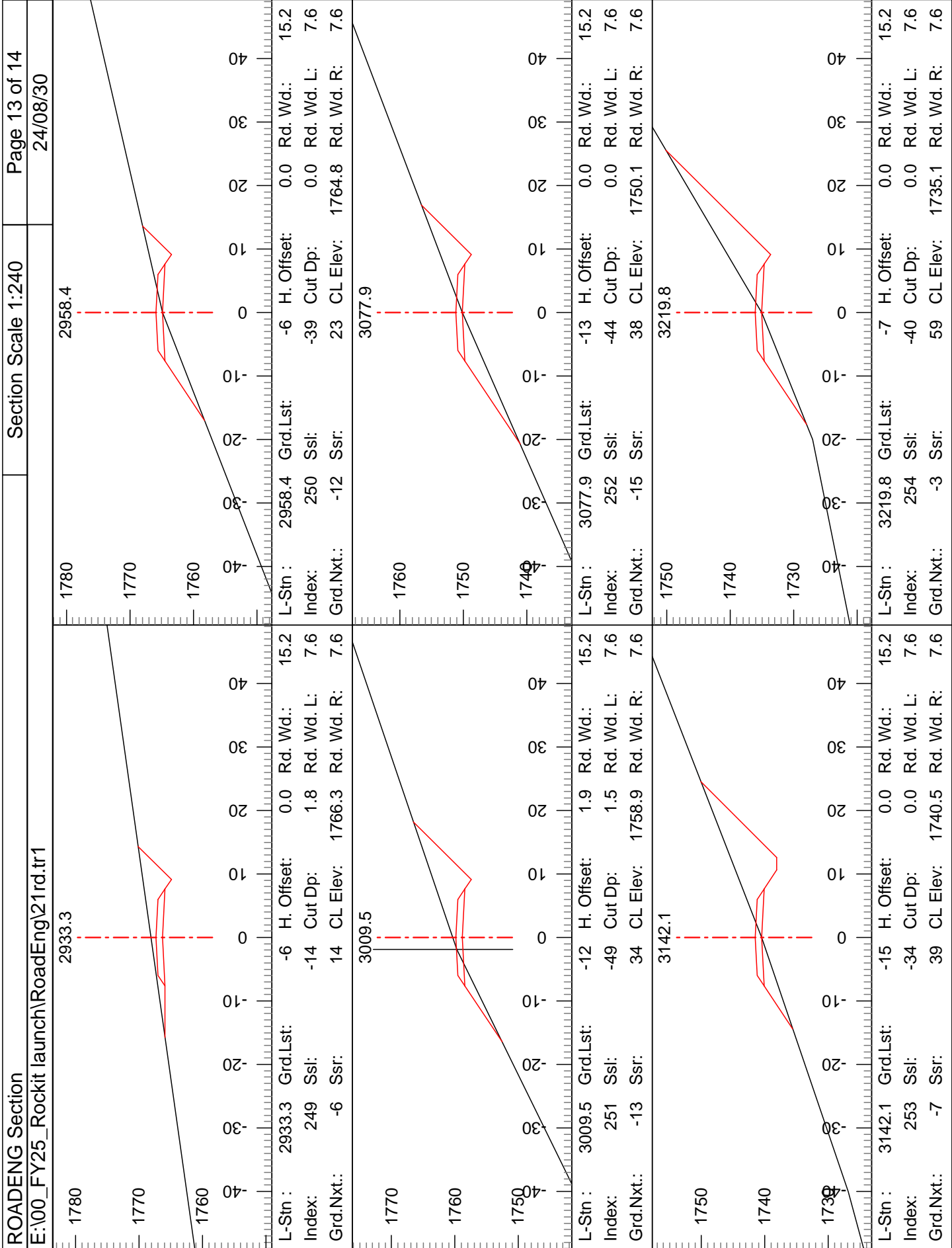


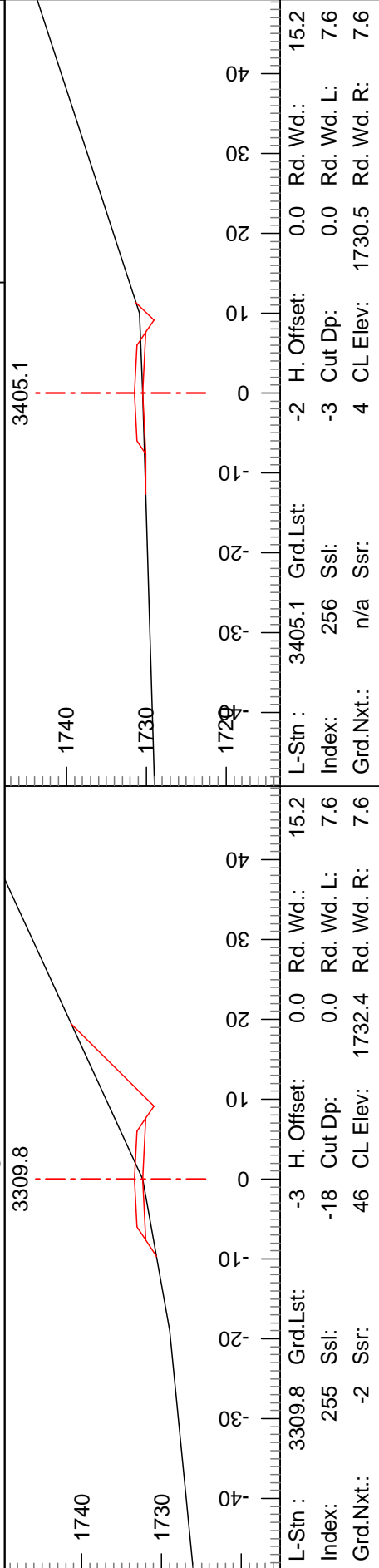












Legal Description: SE ¼ SW ¼ Section 2 Township 14 North Range 6 East, W.M.

Rock Pit Name: Zig Zag Pit

PIT DEVELOPMENT PLAN, pg 1 of 2

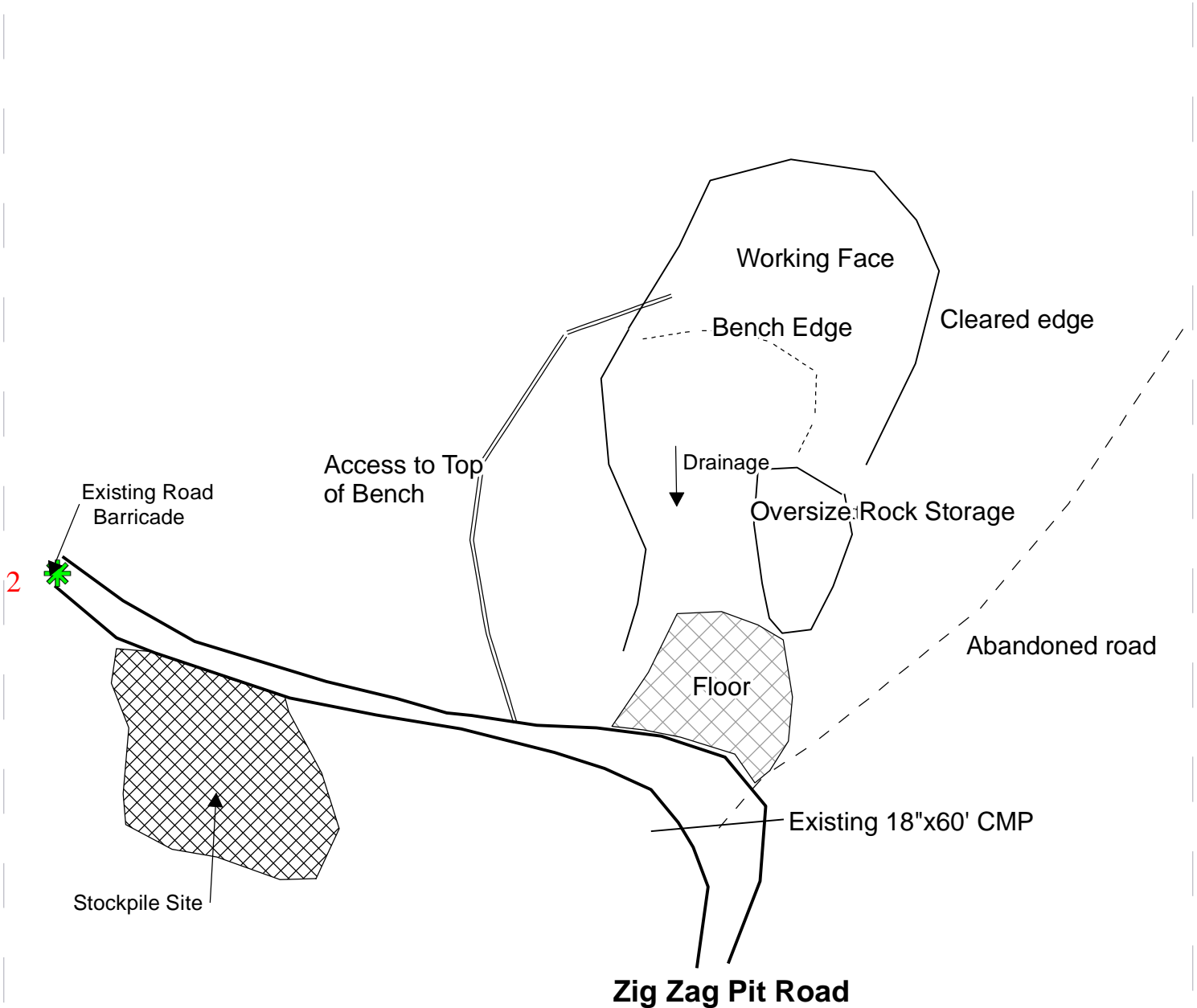
- 1) Pile debris in clean, burnable piles as directed by the Contract Administrator.
- 2) A minimum stripping width of 20 feet must be maintained from all pit faces and at the termination of operations pit shall be left in said condition. No undercutting shall be permitted.
- 3) Pile all reject rock and overburden away from pit working area as shown on pit drawing. Oversize material shall not exceed 10% of the total mined for the sale. Oversize material is defined as rock fragments larger than 1.5 feet in any dimension.
- 4) Maximum face height shall be 20 feet.
- 5) The minimum width of benches shall be 15 feet, unless specified otherwise, in writing by the Contract Administrator.
- 6) Pit walls shall be maintained in a condition to minimize the possibility of the walls sliding or failing.
- 7) Pit walls shall not be undermined or over-steepened. The maximum slope of the walls shall be consistent with recognized engineering standards for the type of material being excavated in accordance with the following table.

Pit Material	Maximum Slope Ratio (Horiz. :Vert.)	Maximum Slope Angle (Vert. Degrees)
Sand	2:1	27
Gravel	1.5:1	34
Common Earth	1:1	45
Fractured Rock	0.5:1	63
Solid Rock	0:1	90

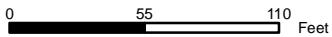
- 8) Pit floor shall be sloped to allow drainage as shown. No ponding will be allowed.
- 9) Required stockpile shall be placed in the rock stockpile sight as shown on pit drawing.
- 10) At the completion of operations, Purchaser shall request written approval from the Contract Administrator for final rock source condition and compliance with the terms of this plan.
- 11) Quantity and quality of ballast pit are not guaranteed by the State.
- 12) See "Zig Zag Pit Plan View, pg 2 of 2" drawing for additional information.

Zig Zag Pit Plan, pg 2 of 2

122°1'W



2



122°1'W

*Map drawn from aerial photo.
All locations are approximate.



All State Unless Otherwise Noted
Prepared By: hadm490 4/12/2023

Permit Issued By: _____ Date: _____

Work is hereby inspected and accepted by: _____ Date: _____

**Pierce County Road Operations
Maintenance Engineering Conditions**

Applicants Name: WA Department of Natural Resource (DNR)

Project Address: County Road 390 near Ashford, WA

Use-specific conditions: Use of the ROW Area is subject to the following conditions:

It is the Grantee's responsibility to comply with any and all applicable codes, regulations, laws and permitting requirements.

1. Grantee shall notify Pierce County Planning and Public Works staff at least three working days prior to commencement of any work activities.
2. Grantee shall leave the site in the same condition as it is today, free of debris, materials, and construction equipment, on completion of work. Grantee shall repair all areas affected by grantee's equipment.
3. All stored materials and equipment shall be removed prior to expiration of agreement.
4. No hazardous materials will be stored on site.
5. Grantee will ensure that any equipment stored / staged on site will be free of fluid leaks and drip pans are placed beneath stored equipment and vehicles.
6. Grantee shall have spill kits onsite for all work activities. Any spill of hazardous materials that does occur must be cleaned up and immediately reported to the Department of Ecology and County staff.
7. Grantee will immediately repair any hazardous conditions to the site as a result of work activities including potholes, fallen debris, site distance issues etc. If hazardous conditions occur, the grantee will close access and the site will not be left unattended without appropriate security measures or staff working at the site. Grantee will immediately notify County staff if any hazardous conditions are observed.
8. All disturbed areas will be protected from erosion and revegetated per guidance from the most recent Pierce County Stormwater Manual.
9. Temporary erosion and sediment control plan shall be in-place prior to starting work. If work is stopped for more than 10 days contractor is responsible to monitor and modify temporary erosion and sediment control plan as needed. The permanent erosion and sediment control plan shall be installed prior to requesting the final inspection.

Tree Cutting/Trimming Within ROW

1. This permit is for cutting/trimming trees within the County ROW and does not include any tree cutting/trimming on adjacent property. If required, the applicant shall implement their

temporary erosion control plan prior to work beginning. Tree stumps shall be ground to match the existing grade or be cut to within 4-inches maximum height of the ground and at a face cut that matches the slope of the existing road side area.

2. After tree cutting activity has been completed, the applicant shall place gravel in the shoulder area and grass seed or hydro seed the disturbed road side areas prior to requesting final inspection.
3. All debris shall be removed from the County ROW or chipped and broadcasted onto the road side area.

Note: This permit is not closed until the Contractor has called to request a final inspection and has received his/her final inspection results, including finishing all punchlist items that may be noted and conveyed to the Contractor from the inspection of their work. If instructed by the inspector a second final review may be needed to inspect punchlist work items to determine their acceptability and permit close-out

General Right-of-Way Permit

- All work and materials shall conform to Pierce County standards and specifications.
- Repair to any and all damage to road infrastructure, private property, landscaping and /or utilities shall be the responsibility of the applicant contractor and shall be approved by all affected agencies.
- All traffic control shall conform to MUTCD standards and specifications.
- Call before you dig for utility locates(1-800-424-5555).
- Once work has been completed applicant shall call for final inspection to the individual specified on the permit. The work shall not be considered completed until it has been accepted by the County.

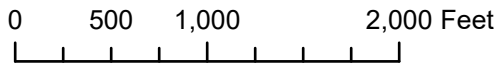
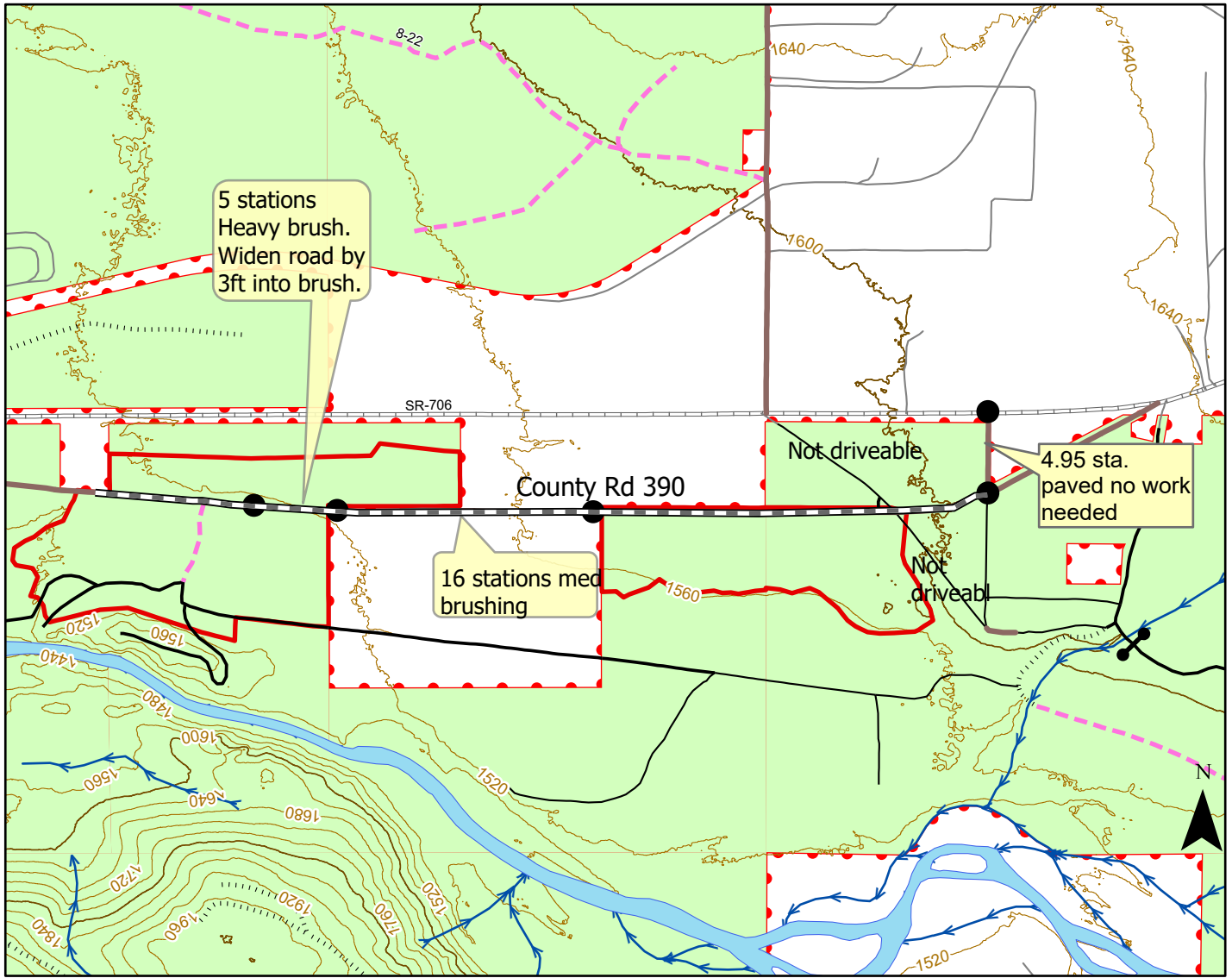
Defense & Indemnity Agreement

The Contractor agrees to defend, indemnify and save harmless the County, its appointed and elected officers and employees, from and against all loss or expense, including but not limited to judgments, settlements, attorney's fees and costs by reason of any and all claims and demands upon the County, its elected or appointed officials or employees for damages because of personal or bodily injury, including death at any time resulting therefrom, sustained by any person or persons and for damages to property including loss of use thereof, whether such injury to persons or damage to property is due to the negligence of the Contractor, his/her Subcontractors, its successor or assigns, or its or their agent, servants, or employees, the County, its appointed or elected officers, employees or their agents, except only such injury or damage as shall have been occasioned by the sole negligence of the County, its appointed or elected officials or employees.

The preceding paragraph is valid and enforceable only to the extent of the Contractor's negligence where the damages arise out of services or work in connection with or collateral to, a contract or agreement relative to construction, alteration, repair, addition to, subtraction from, improvement to, or maintenance of, any building, highway, road, railroad, excavation, or other structure, project, development, or improvement attached to real estate, including moving and demolition in connection therewith, a contract or agreement for architectural, landscape architectural, engineering, or land surveying services, or a motor carrier transportation contract and where the damages are caused by or result from the concurrent negligence of (i) the County or its agents or employees, and (ii) the Contractor or the Contractor's agents or employees

With respect to the performance of this Agreement and as to claims against the County, its officers, agents and employees, the Contractor expressly waives its immunity under Title 51 of the Revised Code of Washington, the Industrial Insurance Act, for injuries to its employees and agrees that the obligations to indemnify, defend and hold harmless provided in this Agreement extend to any claim brought by or on behalf of any employee of the Contractor. This waiver is mutually negotiated by the parties to this Agreement.

County Road 390 Improvements with Rockit Launch TBS



Legend

- | | | |
|---------------------------------------|-----------------------|-------------------|
| County roads in vicinity of DNR Lands | FP Abandoned | Gates (Corporate) |
| 10, 9 | Decommissioned | Open Water |
| Active/driveable | Secondary Highway | Existing Stream |
| Non-driveable | Light Duty Road | Contours 200 ft |
| Orphaned | Unimproved or Unknown | Contours 40 ft |
| | Rockit Thinning Units | |

DEPARTMENT OF NATURAL RESOURCES - SOUTH PUGET SOUND REGION

SUMMARY - ROAD DEVELOPMENT COSTS

(COSTS ARE ESTIMATES ONLY & ARE NOT GUARANTEED BY THE STATE OR PART OF THE ROAD PLAN.)

SALE/PROJECT NAME: **Rockit Launch SWT**

CONTRACT NUMBER: **30-106713**

TYPE:	Construction	Reconstruction	Pre-Haul Maintenance
NUMBER OF STATIONS:	16.41	17.64	447.65
AVG. SIDESLOPE:	45	30	
CLEARING AND GRUBBING:	\$3,210	\$2,350	
EXCAVATION AND FILL:	\$13,044	\$3,881	
MISC. MAINTENANCE:			\$6,921
COUNTY RD 390 PRE-HAUL			\$43,089
ROCK TOTALS:			
Ballast:	\$11,445	\$12,303	\$0
Surfacing:	\$0	\$0	\$0
Riprap/Quarry Spalls:	\$93	0	\$0
Stockpiles:			\$8,309
CULVERTS AND FLUMES:	\$6,139	\$1,205	\$602
STRUCTURES:	\$0	\$0	\$0
GENERAL EXPENSES:	\$3,054	\$1,974	\$1,583
MOBILIZATION:	\$1,317	\$1,317	\$1,317
TOTAL COSTS:	\$38,302	\$23,029	\$61,821
COST PER STATION:	\$2,334	\$1,305	\$138
POST HAUL COSTS:		\$8,133	

NOTE1: This appraisal has no allowance for profit and risk.

NOTE2: This appraisal does not account for optional rock.

TOTAL (All Roads) =	\$131,285
SALE VOLUME MBF =	1,806
TOTAL COST PER MBF =	\$72.69

Plans to be furnished by:

Compiled by:

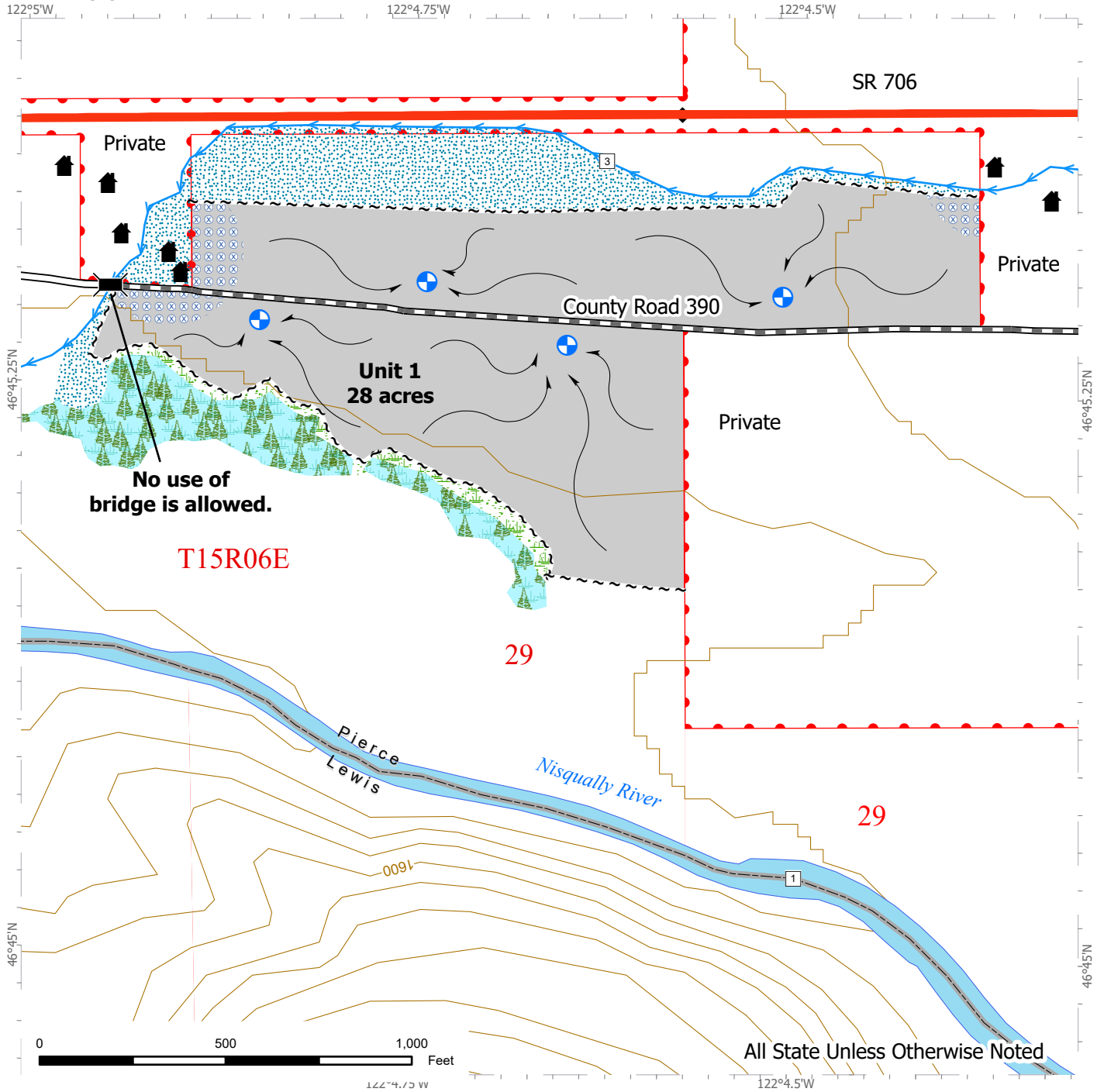
M. Bell

Date: 08/01/24

LOGGING PLAN MAP

SALE NAME: ROCKIT LAUNCH SWT
AGREEMENT #: 30-106713
TOWNSHIP(S): T14R6E, T15R6E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Lewis, Pierce
ELEVATION RGE: 1600-2080

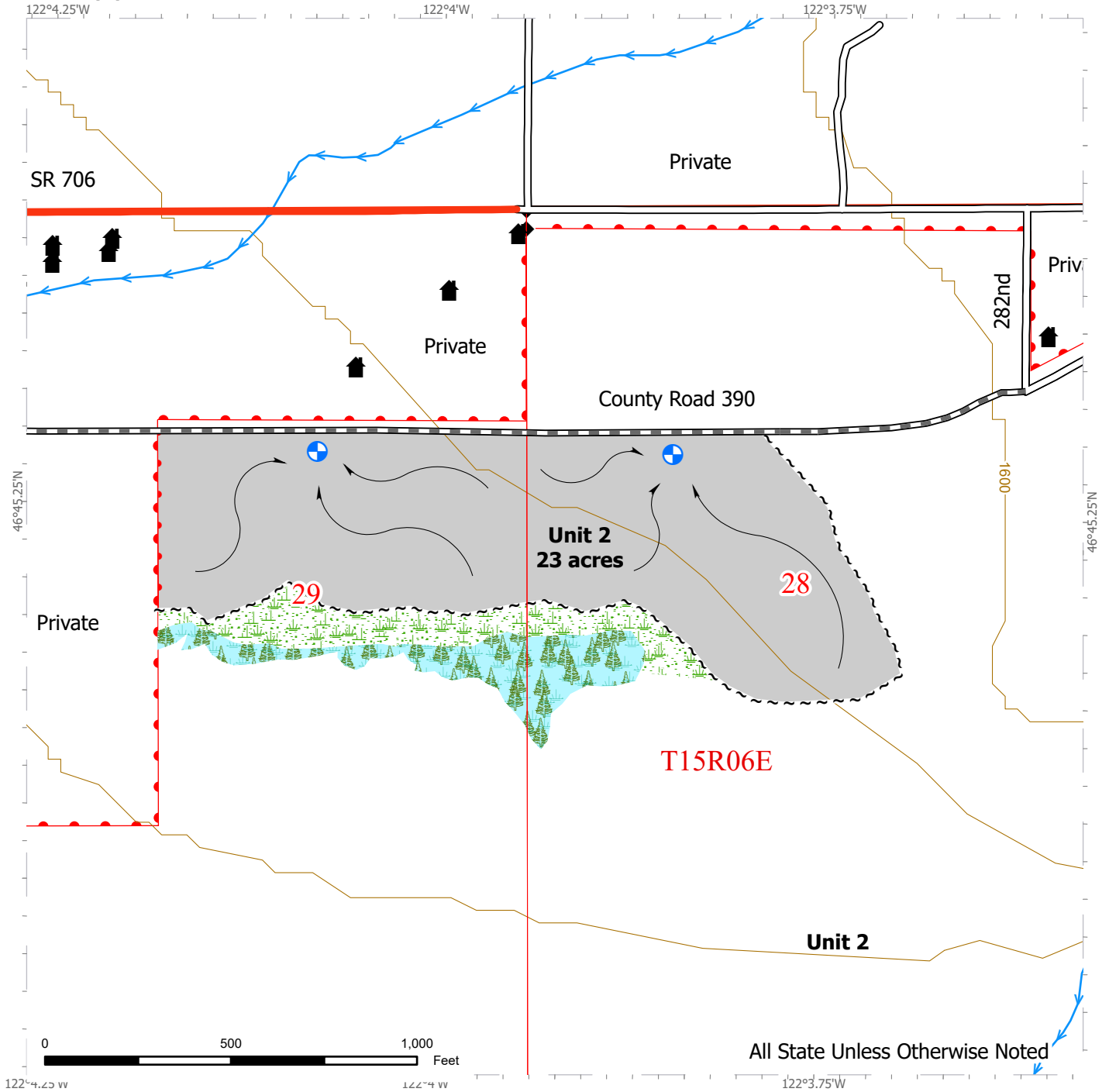


Sale Area	Property Line	Stream Type
Forested Wetland	Highway	Bridge
Wetland Mgt Zone	Existing Roads	Proposed Landing
Riparian Mgt Zone	Required Pre-Haul Maintenance	Structure
Hazard Abatement Area	Streams	Survey Monument
Ground Harvest	Contours 40 ft	
Timber Sale Boundary Tags	County Boundaries	

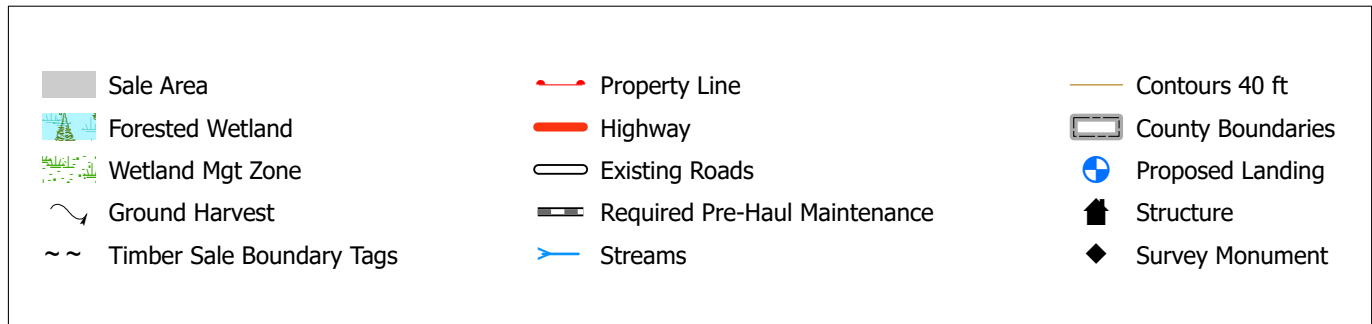
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ELEVATION RGE: 1600-2080



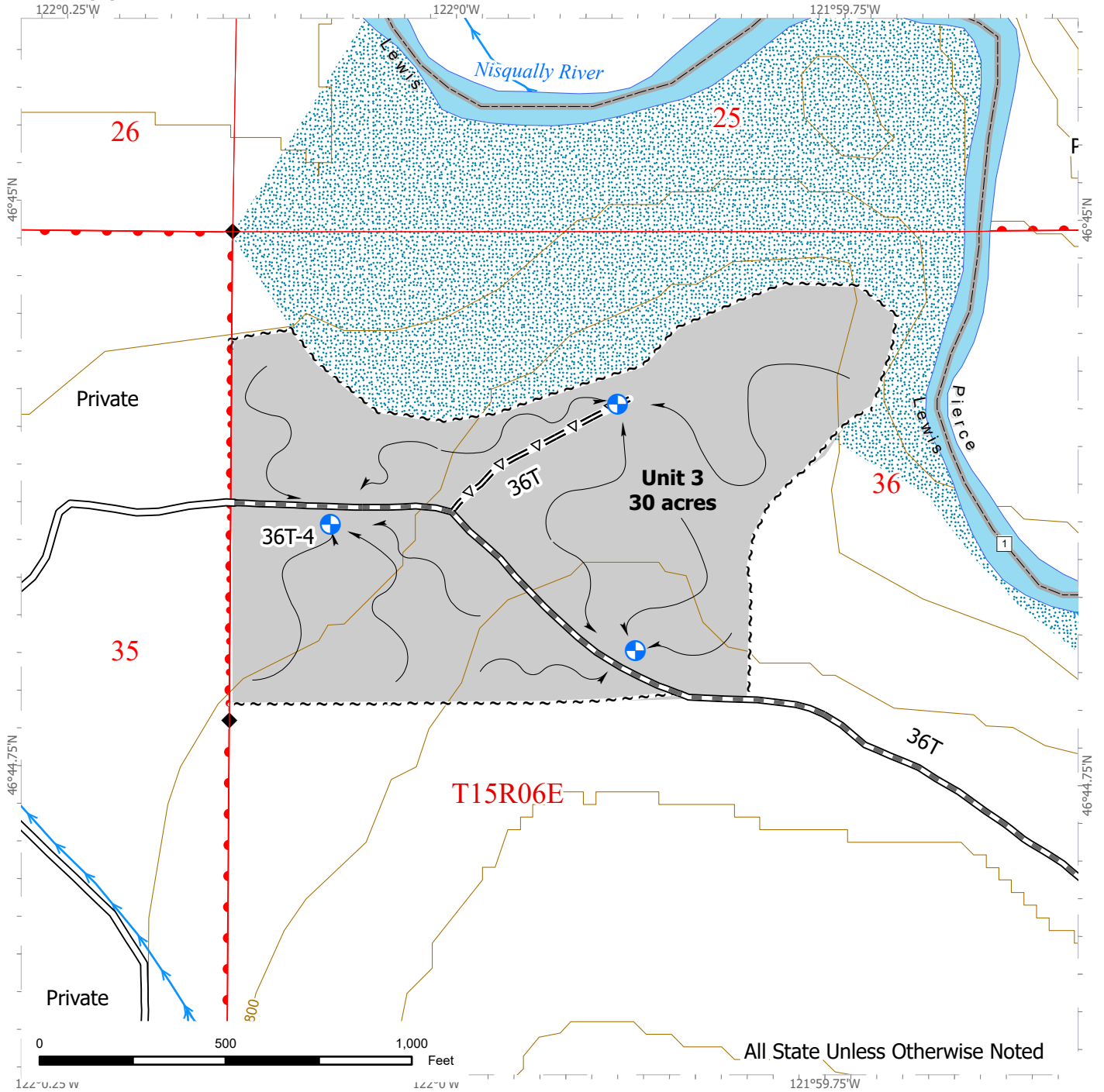
All State Unless Otherwise Noted



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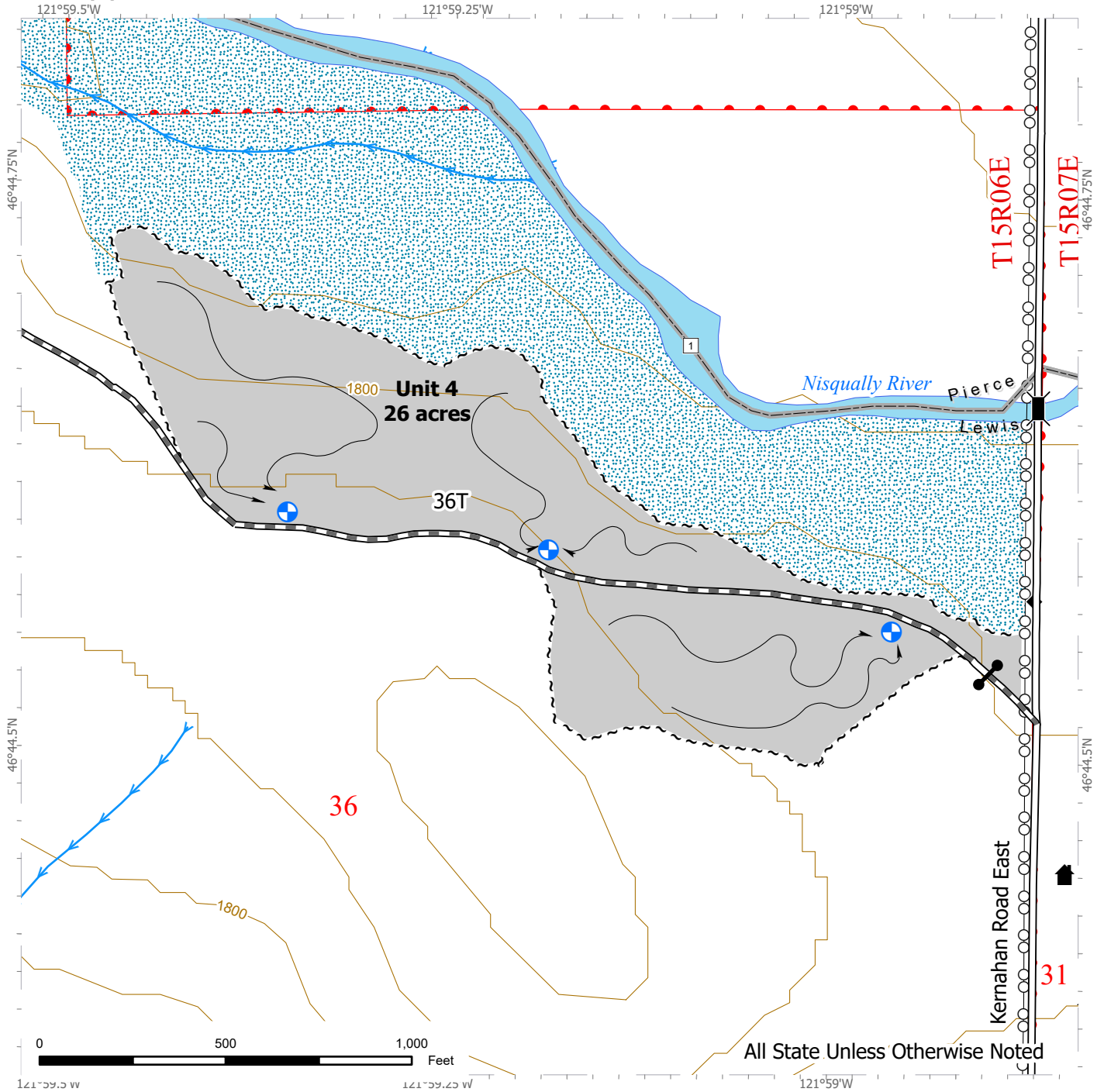


Sale Area	Existing Roads	County Boundaries
Riparian Mgt Zone	Required Pre-Haul Maintenance	Stream Type
Ground Harvest	Optional Pre-Haul Maintenance	Proposed Landing
Timber Sale Boundary Tags	Streams	Survey Monument
Property Line	Contours 40 ft	

LOGGING PLAN MAP

SALE NAME: ROCKIT LAUNCH SWT
AGREEMENT #: 30-106713
TOWNSHIP(S): T14R6E, T15R6E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Lewis, Pierce
ELEVATION RGE: 1600-2080

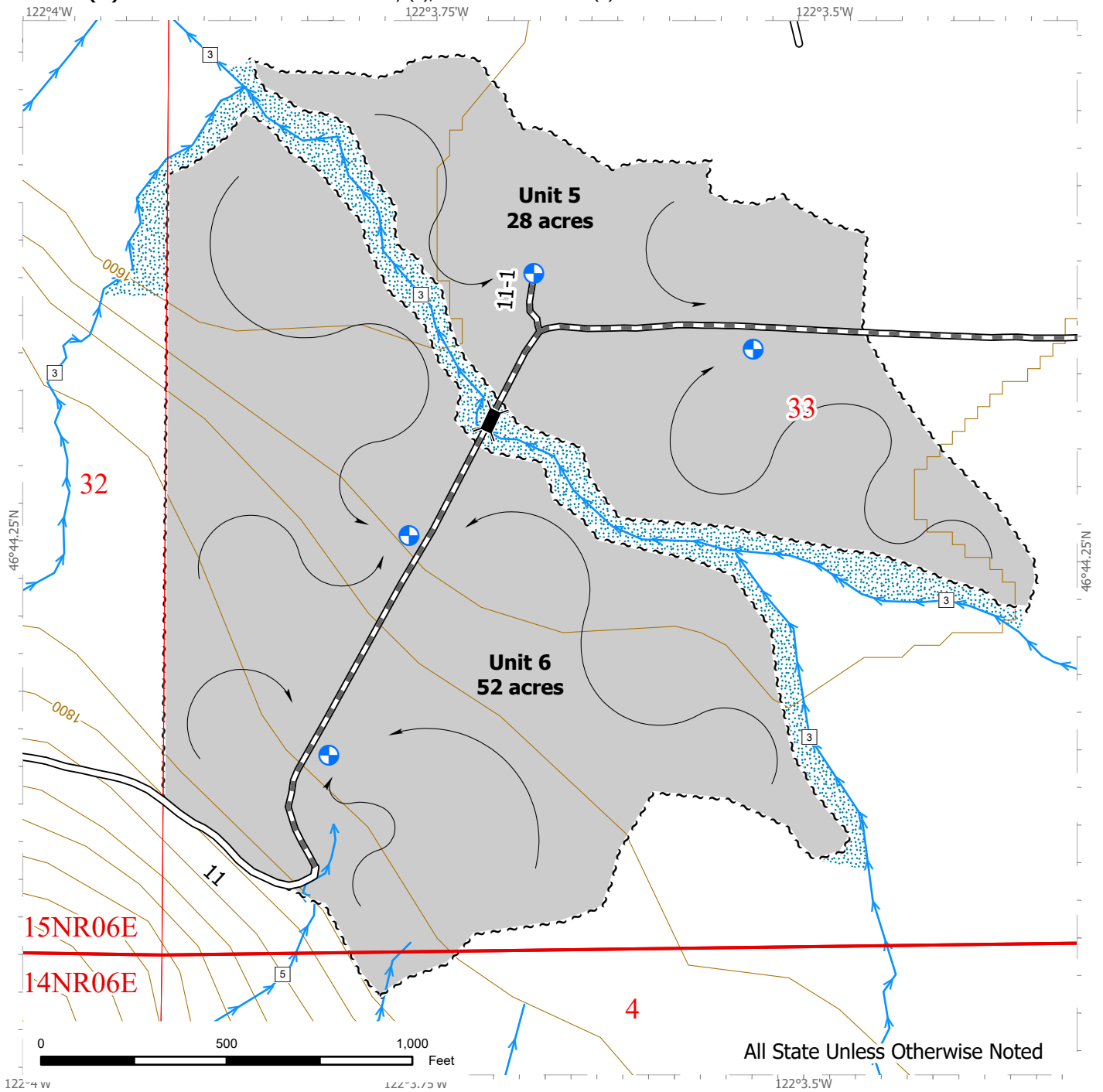


Sale Area	Existing Roads	Bridge
Riparian Mgt Zone	Required Pre-Haul Maintenance	Proposed Landing
Ground Harvest	Streams	Gate
Timber Sale Boundary Tags	Contours 40 ft	Structure
Power Lines	County Boundaries	Survey Monument
	Stream Type	

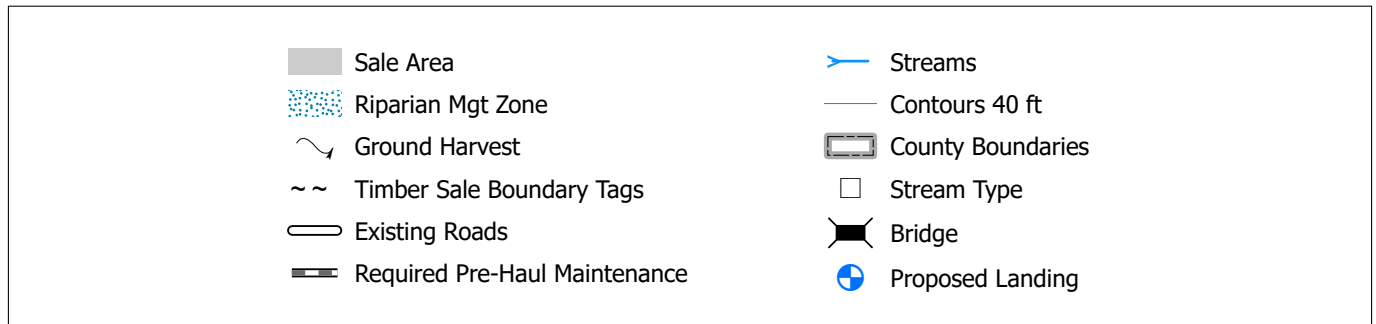
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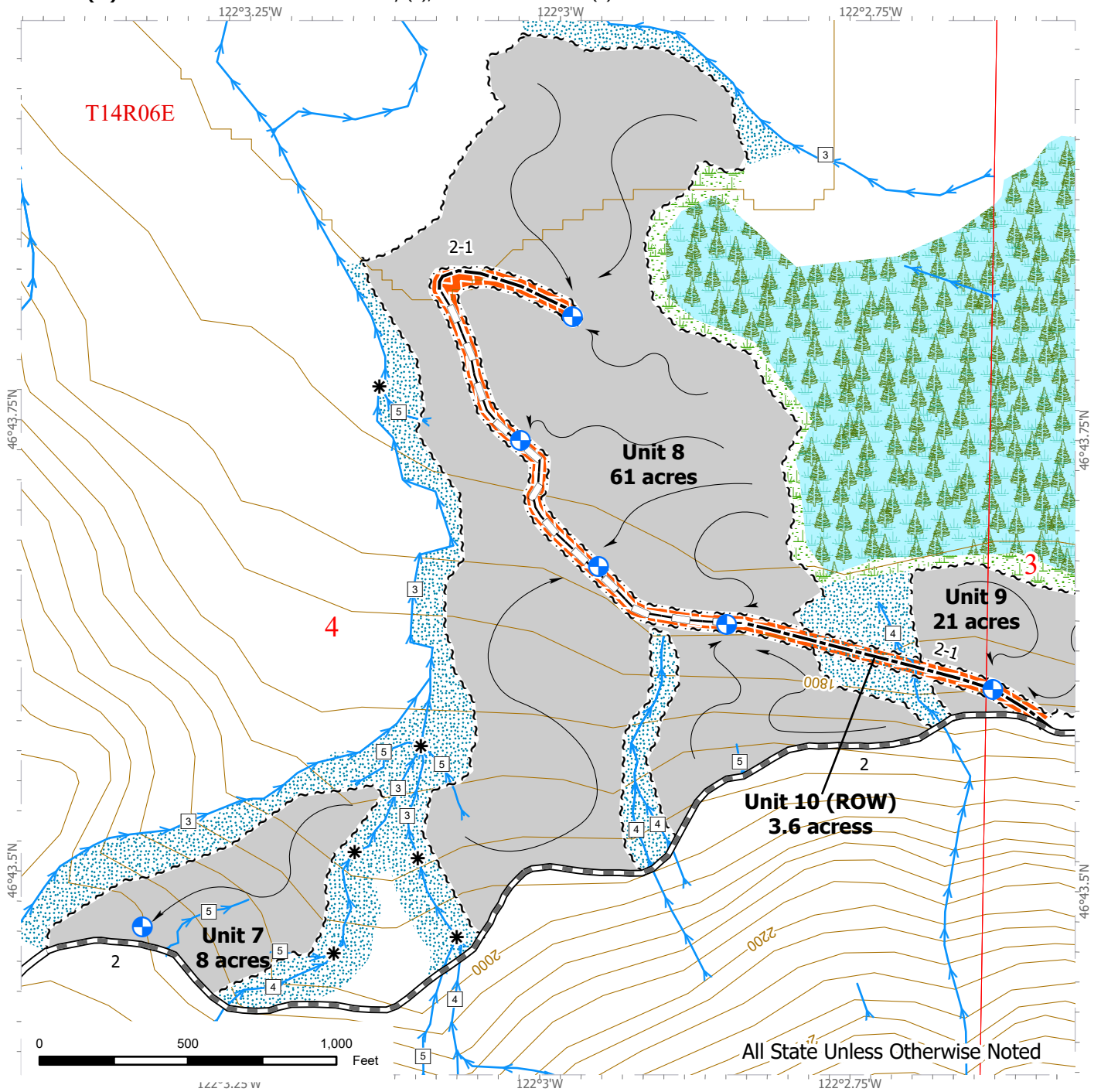
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COUNTY(S): Lewis, Pierce
ELEVATION RGE: 1600-2080

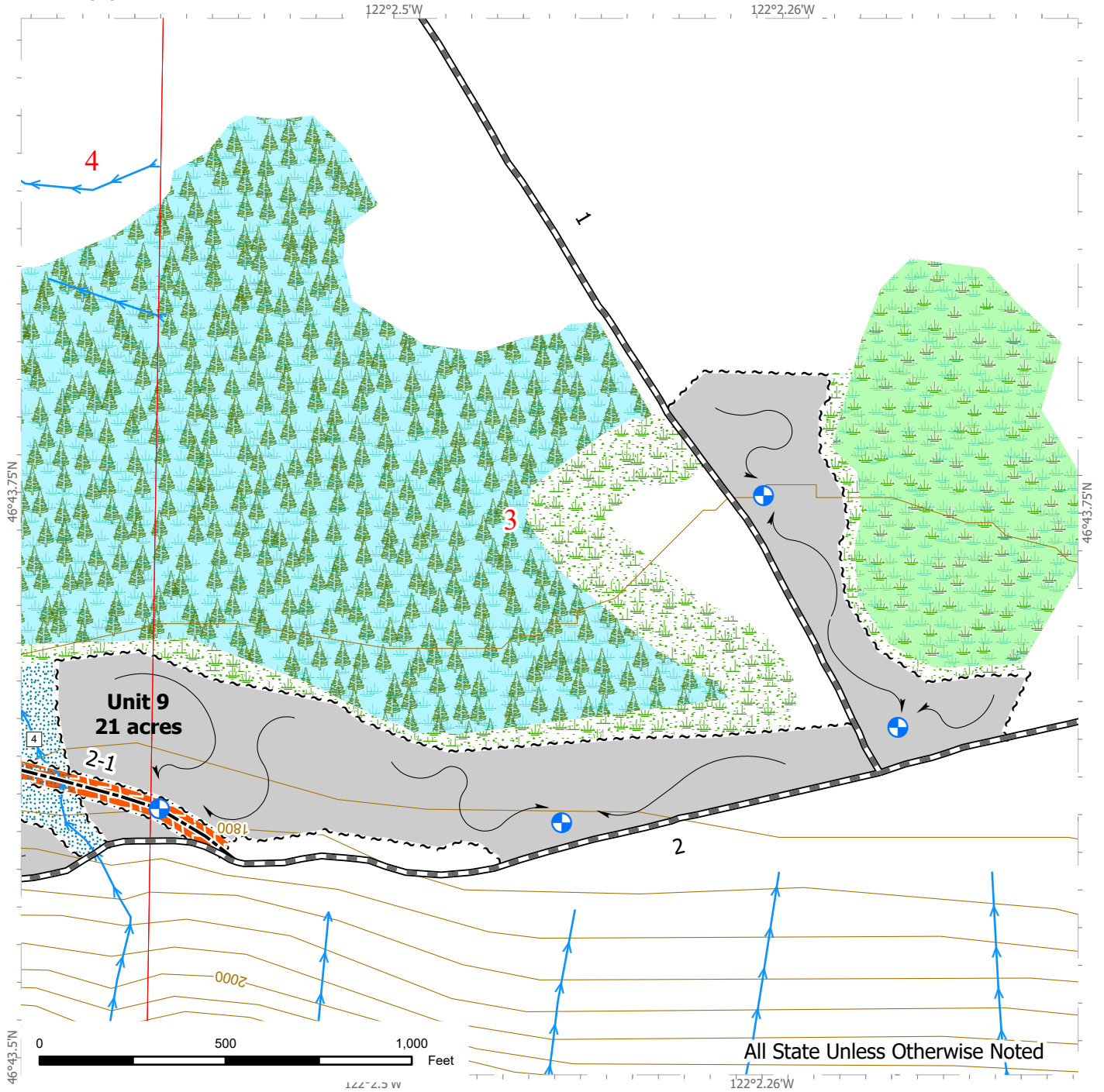


Sale Area	Timber Sale Boundary Tags	Streams
Right-of-Way Harvest	Right of Way Tags	Contours 40 ft
Forested Wetland	Existing Roads	County Boundaries
Wetland Mgt Zone	Required Pre-Haul Maintenance	Stream Type
Riparian Mgt Zone	Optional Construction	Stream Break
Ground Harvest	Optional Reconstruction	Proposed Landing

LOGGING PLAN MAP

SALE NAME: ROCKIT LAUNCH SWT
AGREEMENT #: 30-106713
TOWNSHIP(S): T14R6E, T15R6E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Lewis, Pierce
ELEVATION RGE: 1600-2080



Sale Area	Ground Harvest	Contours 40 ft
Right-of-Way Harvest	Timber Sale Boundary Tags	County Boundaries
Forested Wetland	Right of Way Tags	Stream Type
Wetlands - Non-forested	Required Pre-Haul Maintenance	Proposed Landing
Wetland Mgt Zone	Optional Construction	
Riparian Mgt Zone	Streams	

1-5
+MAP
RC 7/11/2011

Auditor's Note: Copy of map filed in vault in Map File Folder.

EASEMENT

THIS AGREEMENT, made and entered into this 4th day of February, 19 74, by and between BURLINGTON NORTHERN, INC., a Delaware corporation, herein called "Burlington," and STATE OF WASHINGTON, acting by and through the Department of Natural Resources, herein called "State," WITNESSETH:

I

A. Burlington for and in consideration of the grant hereinafter made by State, hereby grants and conveys to State, its successors and assigns, a permanent easement assignable in whole or in part upon, over, and along rights of way sixty (60) feet in width, over and across the lands in Lewis County, Washington, described on the attached "Exhibit A," 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 B."

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

B. State, for and in consideration of Eleven Thousand Six Hundred Thirty and No/100 Dollars (\$11,630.00) for cost shared roads and the grant hereinabove made, hereby grants and conveys to Burlington, its successors and assigns, a permanent easement assignable in whole or in part upon, over, and along rights of way sixty (60) feet in width over and across the lands in Lewis County, Washington, described on the attached "Exhibit A," being thirty (30) feet on each side of the center line(s) of a road or roads located approximately as shown in green on the attached "Exhibit B."

RW

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 purposes of construction, reconstruction, use and maintenance of a road or roads for the purpose of providing access to and from lands now owned or hereafter acquired by the parties hereto.

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

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 herein.

4. Each party hereto may permit its respective agents, contractors, licensees, lessees, 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 (15) 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.

App. No. 36162

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.

For purposes of this agreement, maintenance is defined as the work normally necessary to preserve and keep the roadway, road structure and road facilities as nearly as possible in their present condition or as hereafter improved.

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:

(1) For log haulers, and other miscellaneous users operating heavy trucks (over one (1) ton), One Hundred Thousand Dollars (\$100,000.00) for injury to one person, Three Hundred Thousand Dollars (\$300,000.00) for any one occurrence, and One Hundred Thousand Dollars (\$100,000.00) property damage for any one occurrence;

(2) For fern cutters, bough cutters, shake cutters, or other miscellaneous users operating pickup trucks, light trucks (under one (1) ton) or passenger cars for the purpose of transporting miscellaneous forest products, Twenty-five Thousand Dollars (\$25,000.00) for injury to one person, Fifty Thousand Dollars (\$50,000.00) for any one occurrence, and Five Thousand Dollars (\$5,000.00) property damage for any one occurrence; or

(3) Such other limits as the parties hereto may agree upon in writing from time to time.

(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.

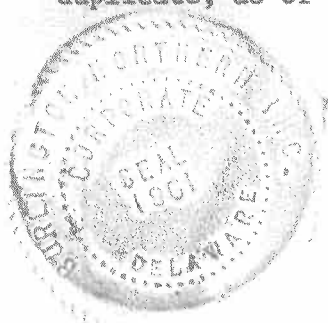
NOW THEREFORE:

1. Burlington shall make arrangements to pay to State the sum of Eleven Thousand Six Hundred Thirty Dollars (\$11,630.00) for the rights granted to Burlington by State in the easement. It is the intention of Burlington, in the management of Burlington's lands in the easement area, to make available for purchase as soon as is practical, that timber which is mature and ready for harvest so that the obligation incurred by Burlington hereunder may be extinguished within a period of five (5) years from the date hereof.

2. Burlington may accelerate the payment of the unpaid balance of the total sum set forth in Paragraph I with other funds as such becomes available.

3. When State has received the sum of \$11,630.00, no further payment shall be required of purchasers of Burlington timber, or other valuable materials, pursuant to this Agreement and Burlington 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.



BURLINGTON NORTHERN, INC.

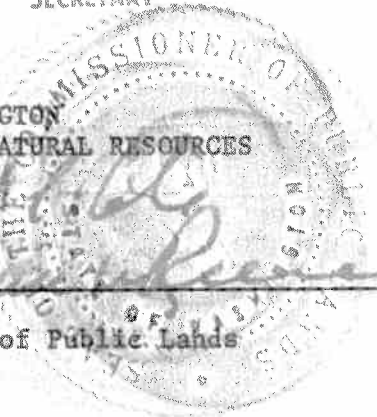
By C.R. Binger Title
President Resources Division

Attest [Signature] Title
SECRETARY

Affix Seal of Corporation

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

By Bert L. Cole
Commissioner of Public Lands



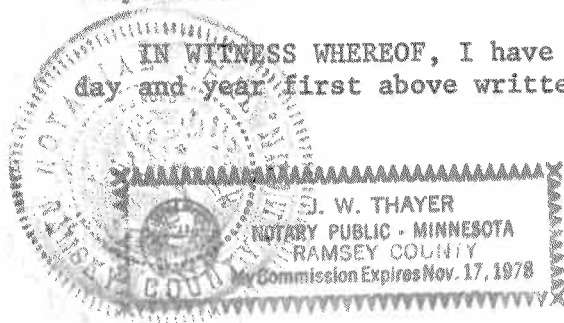
Affix Seal of Commissioner of Public Lands

App. No. 36162
db

STATE OF Minnesota)
County of Ramsey) ss

On this 4th day of February, 1974, before me personally appeared C.R. Binger and R.M.O'Kelly, to me known to be the PRESIDENT RESOURCES DIVISION and SECRETARY, respectively, of BURLINGTON NORTHERN INC., 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 Minnesota, residing at St. Paul.

2672155

4

STATE OF WASHINGTON)
) ss
COUNTY OF THURSTON)

On this _____ day of _____, 19____, 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.

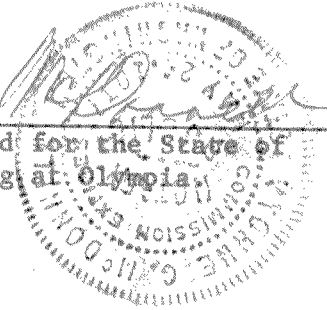
Notary Public in and for the State of Washington, residing at Olympia.

STATE OF WASHINGTON)
) ss
COUNTY OF THURSTON)

On this 19th day of February, 19 74, before me personally appeared BRUCE W. REEVES, to me known to have signature authorization delegated to him to sign for BERT L. COLE, 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.

[Signature]

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


2672155

State to Burlington Northern

<u>Description</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>
NE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$	34	15 North	6 East, W.M.
NW $\frac{1}{4}$ SW $\frac{1}{4}$	1	14 North	6 East, W.M.
SW $\frac{1}{4}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$	2	14 North	6 East, W.M.
NE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$	3	14 North	6 East, W.M.
N $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$	4	14 North	6 East, W.M.
N $\frac{1}{2}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$	8	14 North	6 East, W.M.
NW $\frac{1}{4}$ NW $\frac{1}{4}$	9	14 North	6 East, W.M.
SW $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$	16	14 North	6 East, W.M.
W $\frac{1}{2}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$	17	14 North	6 East, W.M.
W $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, S $\frac{1}{2}$	20	14 North	6 East, W.M.
SW $\frac{1}{4}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$	28	14 North	6 East, W.M.

Burlington Northern to State

<u>Description</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>
NE $\frac{1}{4}$ NE $\frac{1}{4}$	21	14 North	6 East, W.M.

RECORDED FILED VOL PAGE
 74 FEB 26 AM 8:43
 ROBERT L. VERENON, AUDITOR
 LEWIS COUNTY

EXHIBIT A

Recorded JUN 21 1976 Time 1:34 pm
 At the Pierce County Auditor's Office
 Richard A. Greco, Auditor
 By Dr. Balcom
 Deputy Auditor

VOL. 85 PAGE 584

2672155

AI FA

FIRST SUPPLEMENT EASEMENT

THIS SUPPLEMENTAL AGREEMENT, made and entered into this 18TH day of OCTOBER, 1976, by and between BURLINGTON NORTHERN, INC., a Delaware corporation, herein called "Burlington," and STATE OF WASHINGTON, acting by and through the Department of Natural Resources, herein called "State," WITNESSETH:

Whereas, on the 4th day of February, 1974, Burlington and the State entered into an easement exchange hereinafter called Original Easement, which was recorded in the records of Lewis County, Washington, on the 26th day of February, 1974, in Volume 85 of Deeds, pages 580 through 585 under Auditor's File No. 787068, and in the records of Pierce County, Washington, on the 21st day of June, 1976, under Auditor's File No. 2672155. Said Original Easement is hereby supplemented as follows:

GCZ

I

A. Burlington for and in consideration of the grant hereinafter made by the State, hereby grants and conveys to State, its successors and assigns, a permanent easement assignable in whole or in part upon, over, and along rights of way sixty (60) feet in width, over and across the N $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$ of Section 33, Township 15 North, Range 6 East, W.M., in Lewis and Pierce Counties, Washington, being thirty (30) feet on each side of the centerline 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.

B. State, for and in consideration of Ten Thousand Sixty-Six and No/100 Dollars (\$10,066.00) and the grant hereinabove made, hereby grants and conveys to Burlington, its successors and assigns, a permanent easement assignable in whole or in part upon, over, and along rights of way sixty (60) feet in width over and across the W $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, Township 14 North, Range 6 East, W.M., and the SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 34, Township 15 North, Range 6 East, W.M., in Lewis County, Washington, being thirty (30) feet on each side of the centerline of a road or roads located approximately as shown in green on the attached "Exhibits B and C."

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

EXCISE TAXE EXMPT DATE 12-28-76
MAURICE RAYMOND, Pierce Co. Treasurer

II

NOW THEREFORE:

Virginia Kennedy DEPUTY

1. Burlington shall make arrangements to pay to State the sum of Ten Thousand Sixty-Six and No/100 Dollars (\$10,066.00) for the rights granted to Burlington by State in the easement. It is the intention of Burlington, in the management of its lands in the easement area, to make available for purchase as soon as is practical, that timber which is mature and ready for harvest so that the obligation incurred by Burlington hereunder may be extinguished within a period of five (5) years from the date hereof.

2. Burlington may accelerate the payment of the unpaid balance of the total sum set forth in Paragraph I with other funds as such becomes available.

3. When State has received the sum of \$10,066.00, no further payment shall be required of purchasers of Burlington timber, or other valuable materials, pursuant to this Agreement and Burlington 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 the terms, conditions and reservations of the Original Easement shall remain in full force and effect.

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

BURLINGTON NORTHERN, INC.

By *Ch. Brady*
President Resources Division Title

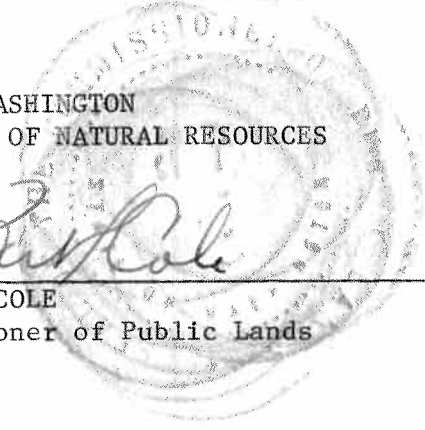
Attest *L.A. Downing*
Asst. Secretary Title



Affix Seal of Corporation

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

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



Affix Seal of Commissioner
of Public Lands

Easement No. 1037
App. No. 36162
saa

APPROVED
R/W SECTION *Plm*
DATE *11-17-76*
W. Van L...

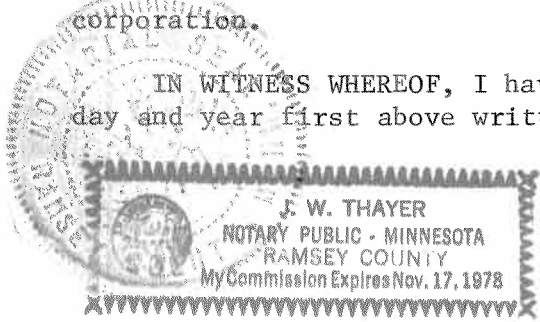
2708960

3

STATE OF Minnesota)
County of Ramsey) ss

On this 18th day of October, 19 76, before me personally appeared C. R. Binger and F. A. Deming, to me known to be the President Resources Division and Asst. Secretary, respectively, of BURLINGTON NORTHERN INC., 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.



J. W. Thayer
Notary Public in and for the State of Minnesota, residing at St. Paul.

STATE OF WASHINGTON)
COUNTY OF THURSTON) ss

On this 29th day of November, 19 76, 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.

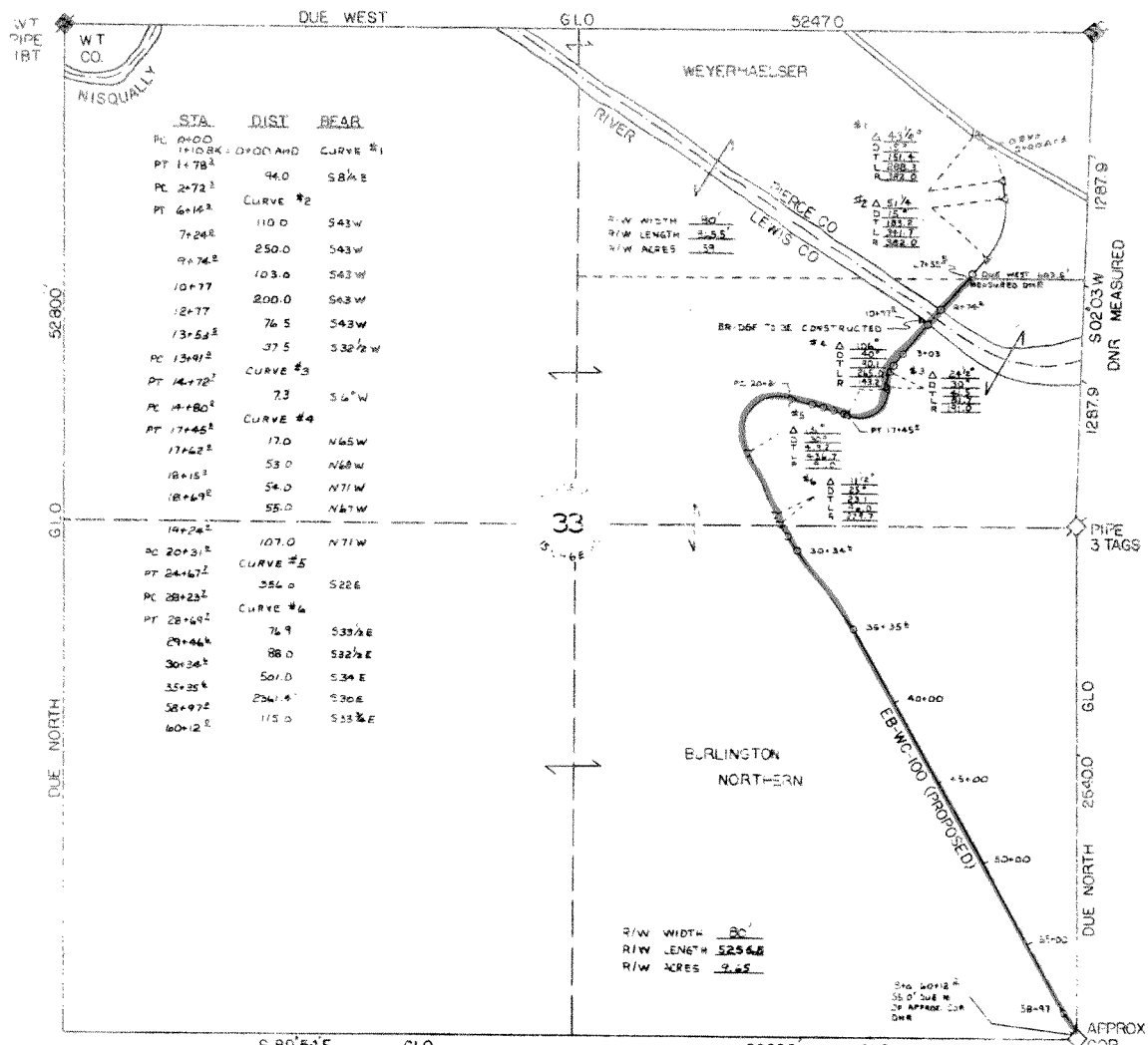
IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year set forth above.



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

(4)

STATE OF WASHINGTON
 DEPARTMENT OF NATURAL RESOURCES
 RIGHT OF WAY PLAT
 EB-WC-100 ROAD
 SEC. 33 T.15 N. R.6E WM
 PIERCE, LEWIS COUNTY, WASH
 SCALE: 1 INCH = 400 FEET



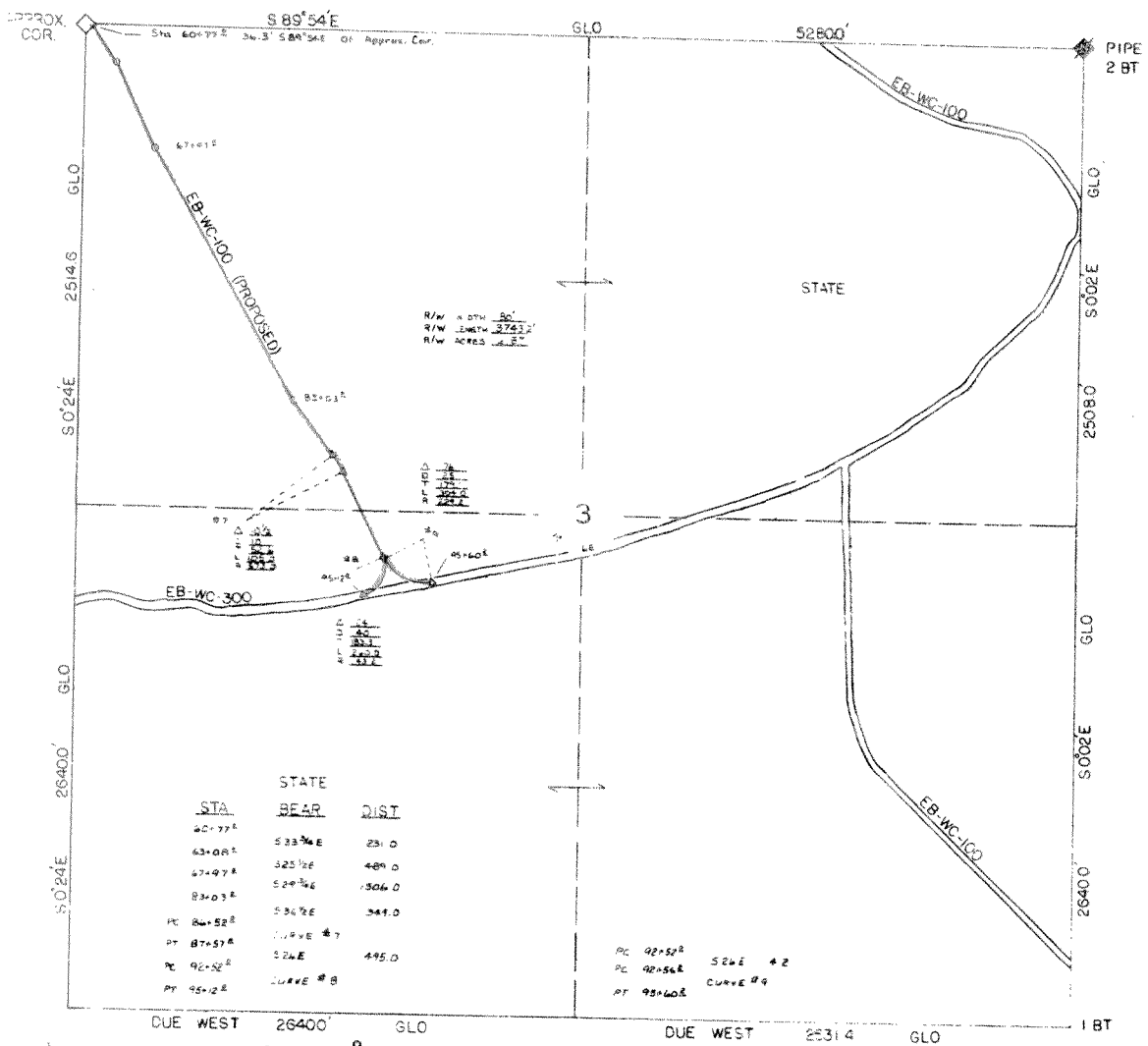
22 1/2°
 S Mackie, T. Smith
 T. Smith
 2-15-74
 27943, 36162, 20, 1037
 APPROVED:
 AREA ENGINEER [Signature]
 DIVISION, OLYMPIA

R/W WIDTH 80'
 R/W LENGTH 5254.6'
 R/W ACRES 9.65

5

2708960

STATE OF WASHINGTON
 DEPARTMENT OF NATURAL RESOURCES
 RIGHT OF WAY PLAT
 EB-WC-100 ROAD
 3 114 N R 6E WA
 LEWIS COUNTY WASH



22 1/2°
 S. Mackie, T. Smith
 T. Smith
 2-20-74
 27943, 36162, 20, 1037

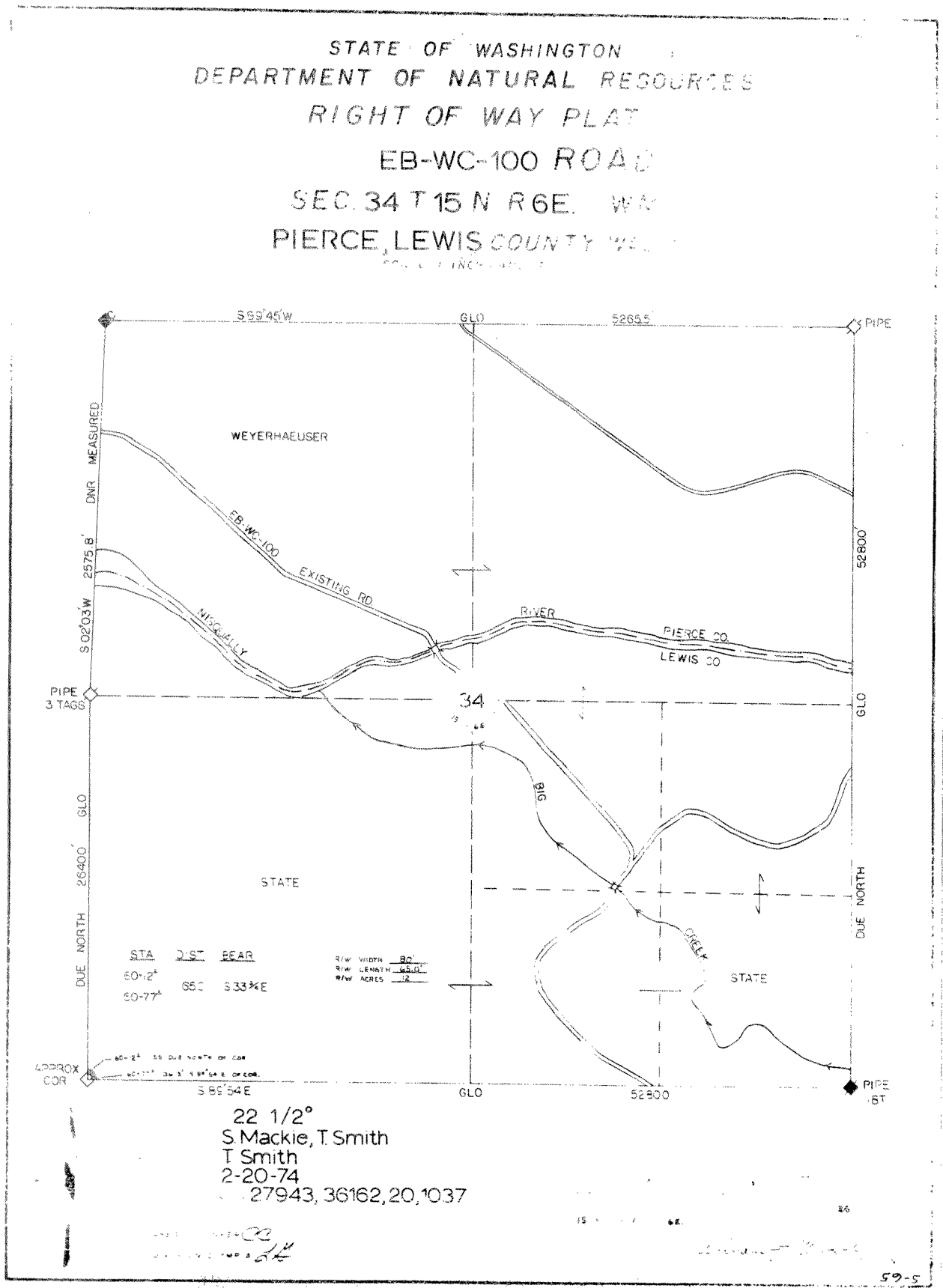
Signature
 D. N. G.

69-5

(6)

2708960

STATE OF WASHINGTON
 DEPARTMENT OF NATURAL RESOURCES
 RIGHT OF WAY PLAT
 EB-WC-100 ROAD
 SEC. 34 T15 N R6E. W.W.
 PIERCE, LEWIS COUNTY WASH.



Attn: Roger Huestis

State of Wash
 Dept of Natural Resources
 176 DEC 3 PM 2:55
 Olympia 98504
 REC. AUDITOR

Recorded DEC 29 1976 Time 12:34 PM
 At the Pierce County Auditor's Office
 Richard A. Greco, Auditor
 By Deputy Auditor M. Balcom