



TIMBER NOTICE OF SALE

SALE NAME: NEW FOX

AGREEMENT NO: 30-107171

AUCTION: January 29, 2025 starting at 10:00 a.m., Olympic Region Office, Forks, WA

COUNTY: Jefferson

SALE LOCATION: Sale located approximately 14 miles southwest of Forks, WA

PRODUCTS SOLD AND SALE AREA:

All timber, except trees marked with a band of blue paint or bounded out by leave tree area tags, or any down redcedar; bounded by timber sale boundary tags and the Upper Hoh Road in Units 1, 4; timber sale boundary tags, 3+60 Spur and H-3500 road in Unit 2; timber sale boundary tags in Units 3, 5; timber sale boundary tags and H-3100 road in Units 6,7; timber sale boundary tags and H-3100 & H-3160 roads in Units 8, 9; timber sale boundary tags, H-3106 & H-3106.4 and timber type change in Unit 10; timber sale boundary tags, H-3100 and H-3700 in Unit 11; timber sale boundary tags in Units 12, 13, 14, 16; timber sale boundary tags and H-3190 road in Unit 15.

All forest products above located on part(s) of Sections 19, 20, 21, 22, 23, 28 and 29 all in Township 27 North, Range 11 West, Sections 21, 22, 23 and 24 all in Township 27 North, Range 12 West, W.M., containing 370 acres, more or less.

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

ESTIMATED SALE VOLUMES AND QUALITY:

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

MINIMUM BID: \$1,784,498.00

BID METHOD: Sealed Bids

PERFORMANCE SECURITY:

\$100,000.00

SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2027

ALLOCATION: Export Restricted

BID DEPOSIT: \$178,449.80 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Forest products sold under this contract shall be harvested and removed using cable, cable-tethered, and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75 percent and less. Ground based equipment is limited to tracked equipment on sustained slopes that are 45 percent and less. Rubber tired skidders are restricted unless approved by the Contract Administrator. Authority to use other equipment or to operate outside the equipment specifications detailed above must be



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approved in writing by the State. 30' Equipment Limitations Zones (ELZ) on all typed water, Rubber tired skidder must meet rutting and skidding requirements and have an approved harvest plan. Falling and Yarding will not be permitted from April 1 to September 23 unless authorized in writing by the Contract Administrator. No activities permitted from two hours after official sunrise, and from two hours before official sunset from April 1 - September 23 in Unit 14, for Marbled Murrelet restriction. This restriction does not apply to the hauling of timber, rock, or equipment.

The harvest of Unit 4 is to be conducted after necessary construction occurring on the Upper Hoh Road at milepost 1.3. The unit cannot be harvested until November 1, 2025.

ROADS:

49.60 stations of optional construction. 564.10 stations of optional prehaul maintenance. 10.50 stations of decommissioning. Crossings C1 and C2 must be installed and removed within one operating season between July 1 - September 30. Road maintenance activities or operation of heavy equipment on the H-3100 East (stations 99+75 - 121+70) is not permitted from two hours after official sunrise, and from one hour before official sunset from April 1 - September 23. This restriction does not apply to the hauling of timber, rock, or equipment. Road construction will not be permitted from October 1 to June 30 unless authorized in writing by the Contract Administrator. On 6+80 Spur and 3+70 Spur Temp Pipe Install/Harvest/Removal.

ACREAGE DETERMINATION

CRUISE METHOD: Sale area was 100% GPS'd. Sale units were cruised using a variable plot sample.

FEES: \$182,648.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Locked gates located North and South Winfield Pit. Contact Olympic Region Dispatch Center at (360) 374-2800 to obtain an AA1 key.

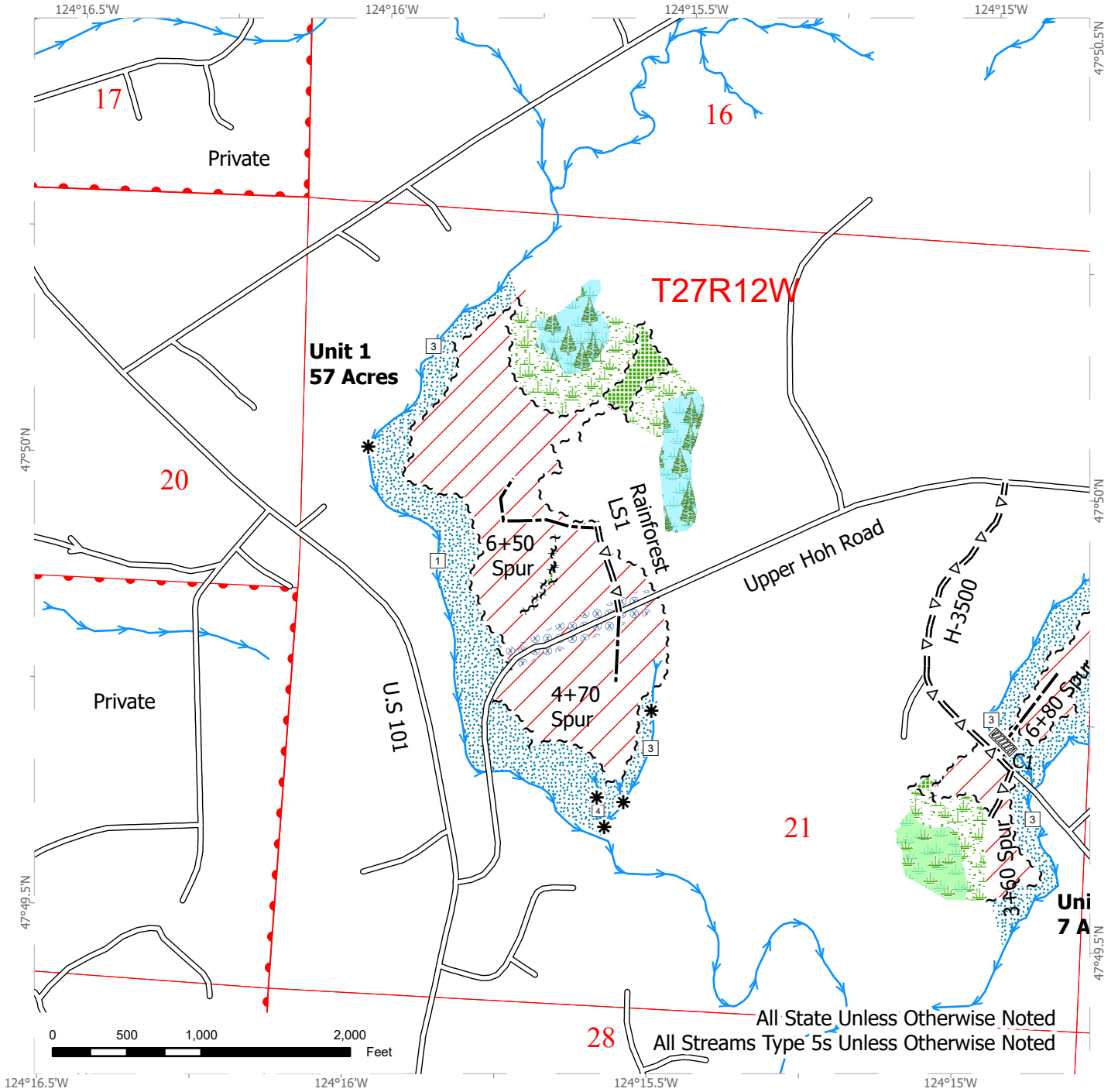
Extreme Hazard Abatement requirements see contract for details.

The harvest of Unit 4 is to be conducted after necessary construction occurring on the Upper Hoh Road at milepost 1.3. The unit cannot be harvested until November 1st, 2025.

TIMBER SALE MAP

SALE NAME: NEW FOX
AGREEMENT #: 30-107171
TOWNSHIP(S): T27R11W, T27R12W
TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 440'-1320'



28 All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

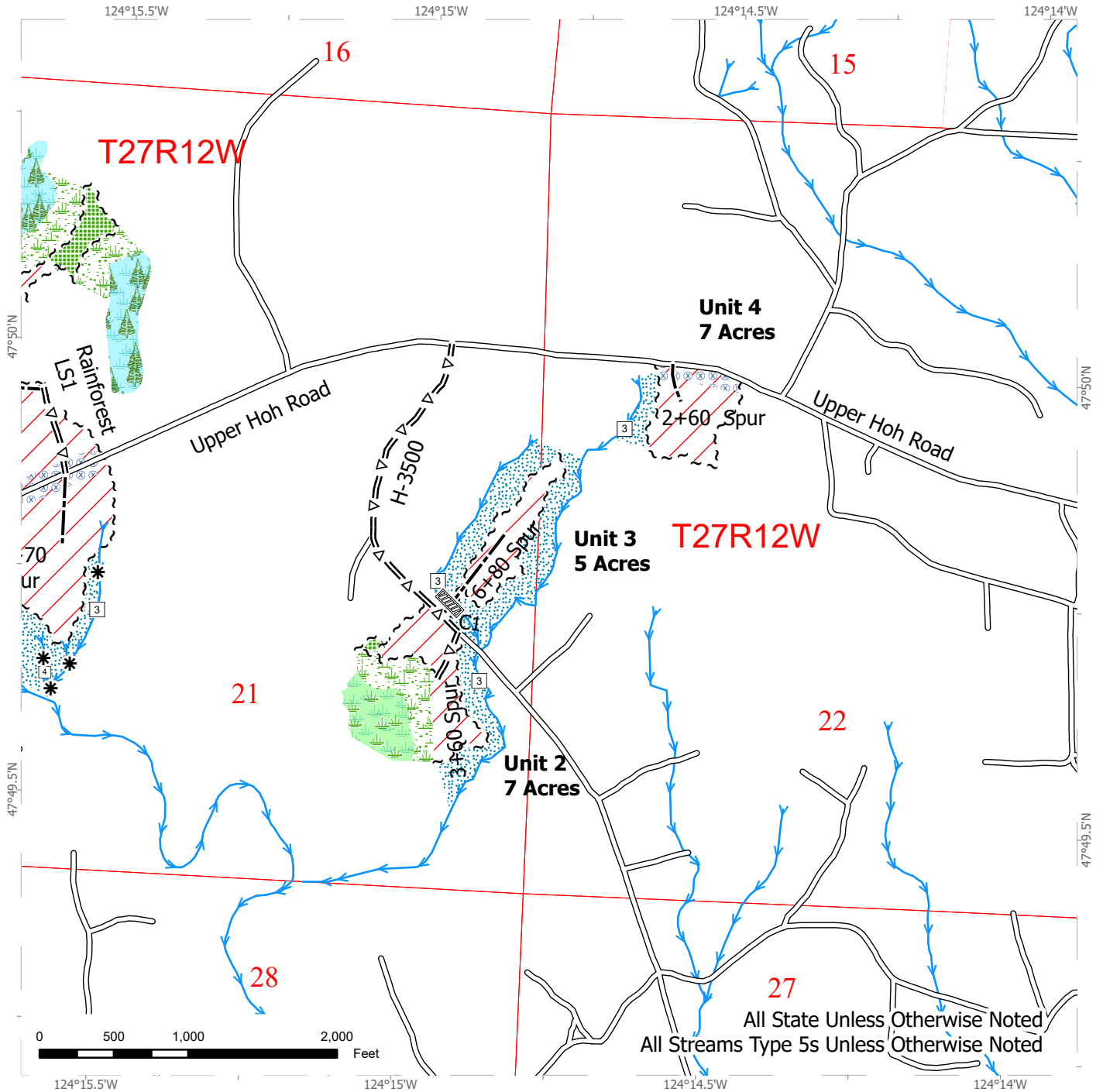
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|----------------------------|-------------------------------|------------------------------|
| Streams | Wetland Mgt Zone | Optional Construction |
| Sale Boundary Tags | Riparian Mgt Zone | Stream Crossing |
| Leave Tree Tags | Hazard Abatement Area | Public Land Survey Townships |
| Variable Retention Harvest | Stream Type | Public Land Survey Sections |
| Leave Tree Area | Stream Break | DNR Managed Lands |
| Forested Wetland | Existing Roads | |
| Wetlands - Non-forested | Optional Pre-Haul Maintenance | |



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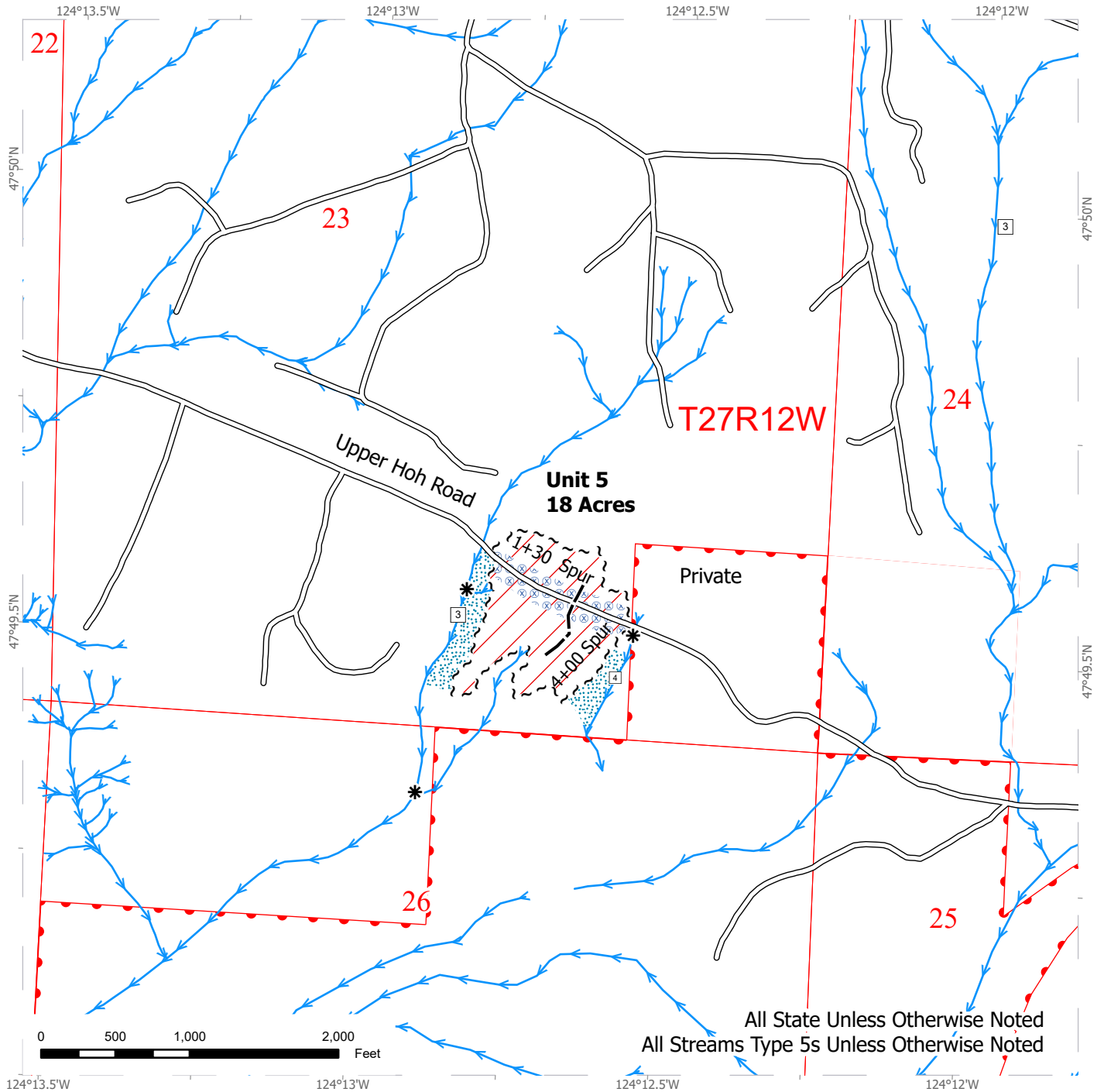
Streams	Wetland Mgt Zone	Optional Construction
Sale Boundary Tags	Riparian Mgt Zone	Stream Crossing
Leave Tree Tags	Hazard Abatement Area	Public Land Survey Townships
Variable Retention Harvest	Stream Type	Public Land Survey Sections
Leave Tree Area	Stream Break	DNR Managed Lands
Forested Wetland	Optional Pre-Haul Maintenance	
Wetlands - Non-forested	Existing Roads	



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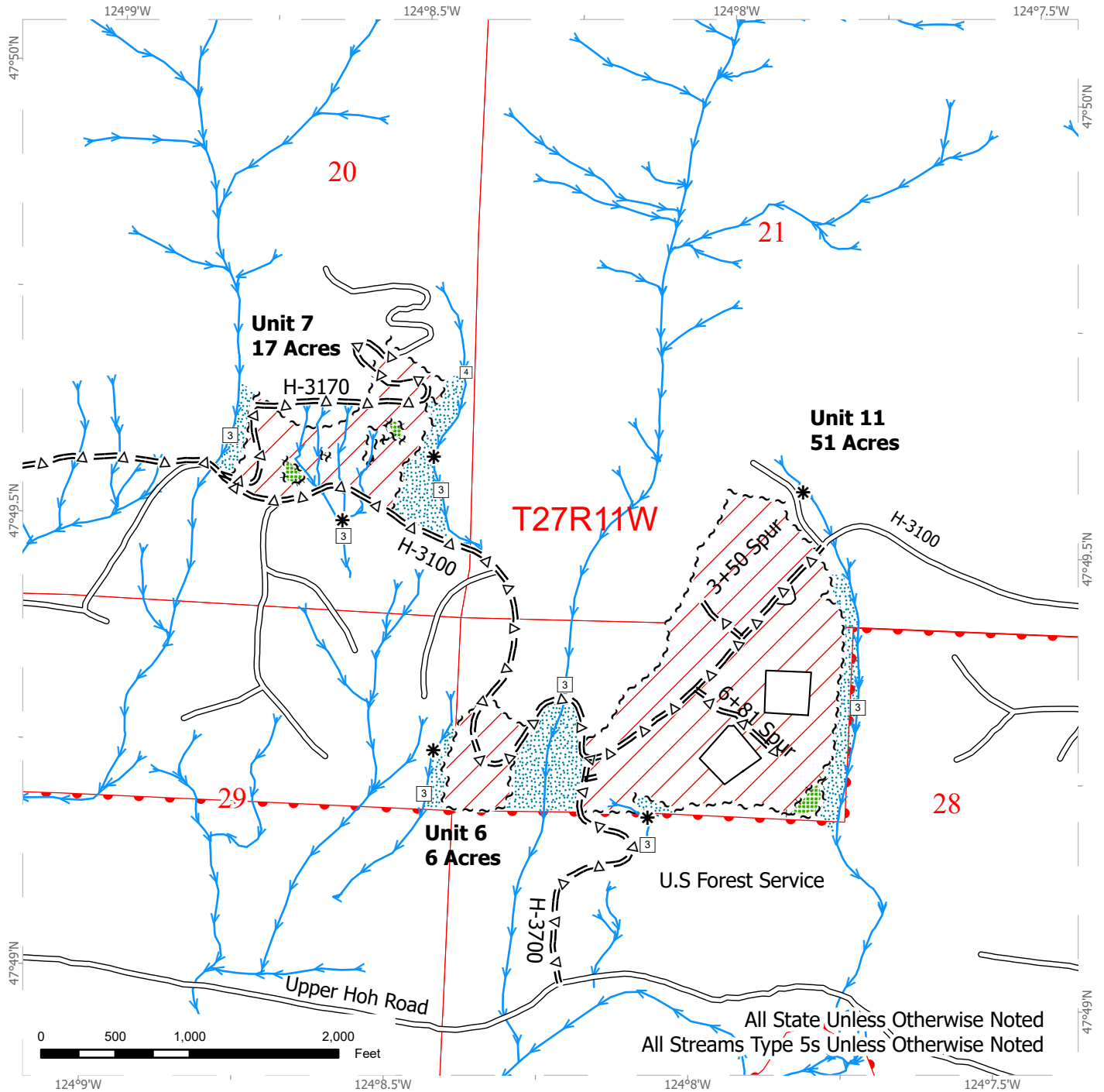
Streams	Stream Type	Public Land Survey Townships
Sale Boundary Tags	Stream Break	Public Land Survey Sections
Variable Retention Harvest	Existing Roads	DNR Managed Lands
Riparian Mgt Zone	Optional Construction	
Hazard Abatement Area		



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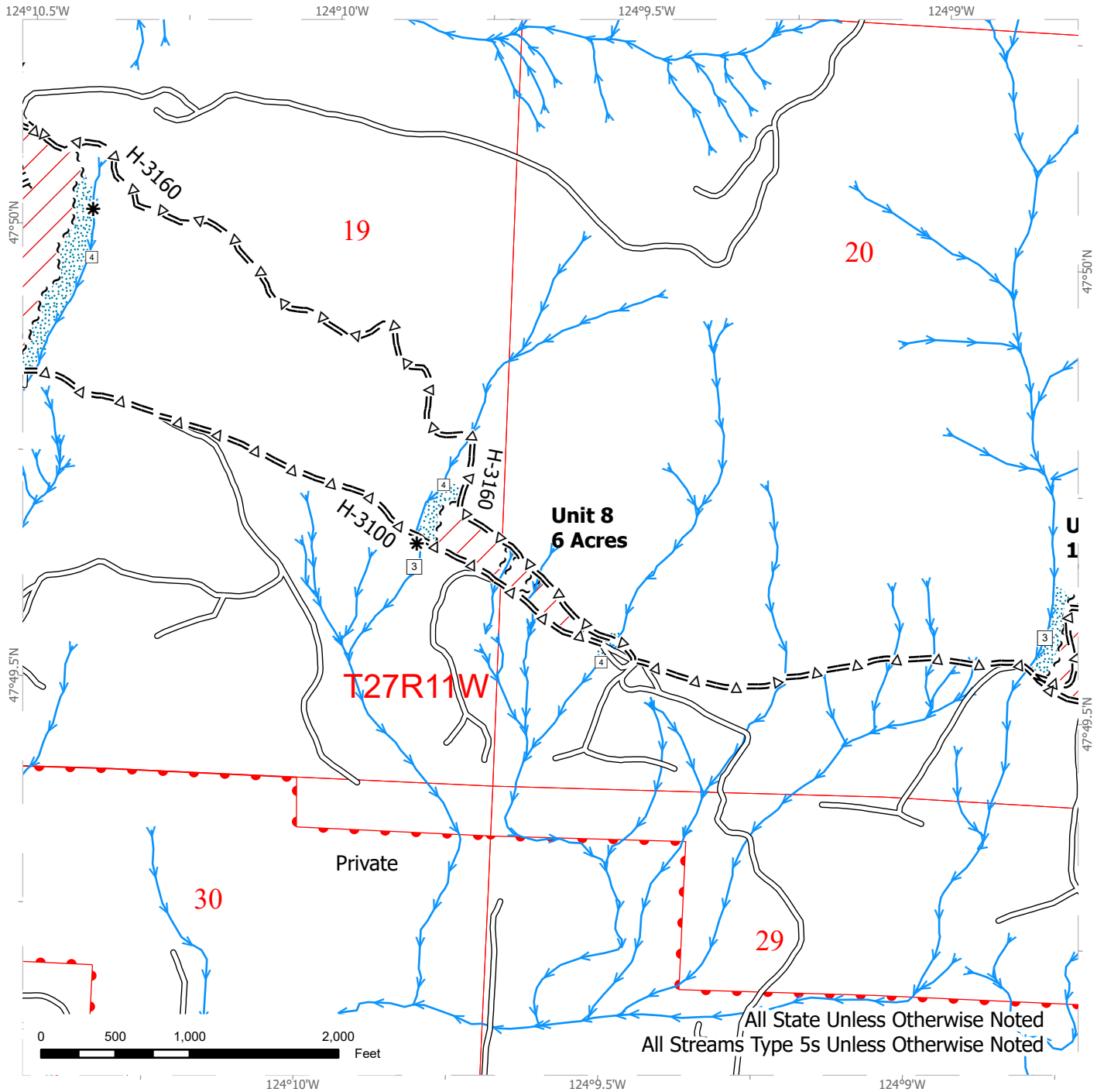
All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

Streams	Stream Type	Public Land Survey Townships
Sale Boundary Tags	Stream Break	Public Land Survey Sections
Leave Tree Tags	Existing Roads	DNR Managed Lands
Timber Type Change	Optional Pre-Haul Maintenance	
Variable Retention Harvest		
Leave Tree Area		
Riparian Mgt Zone		

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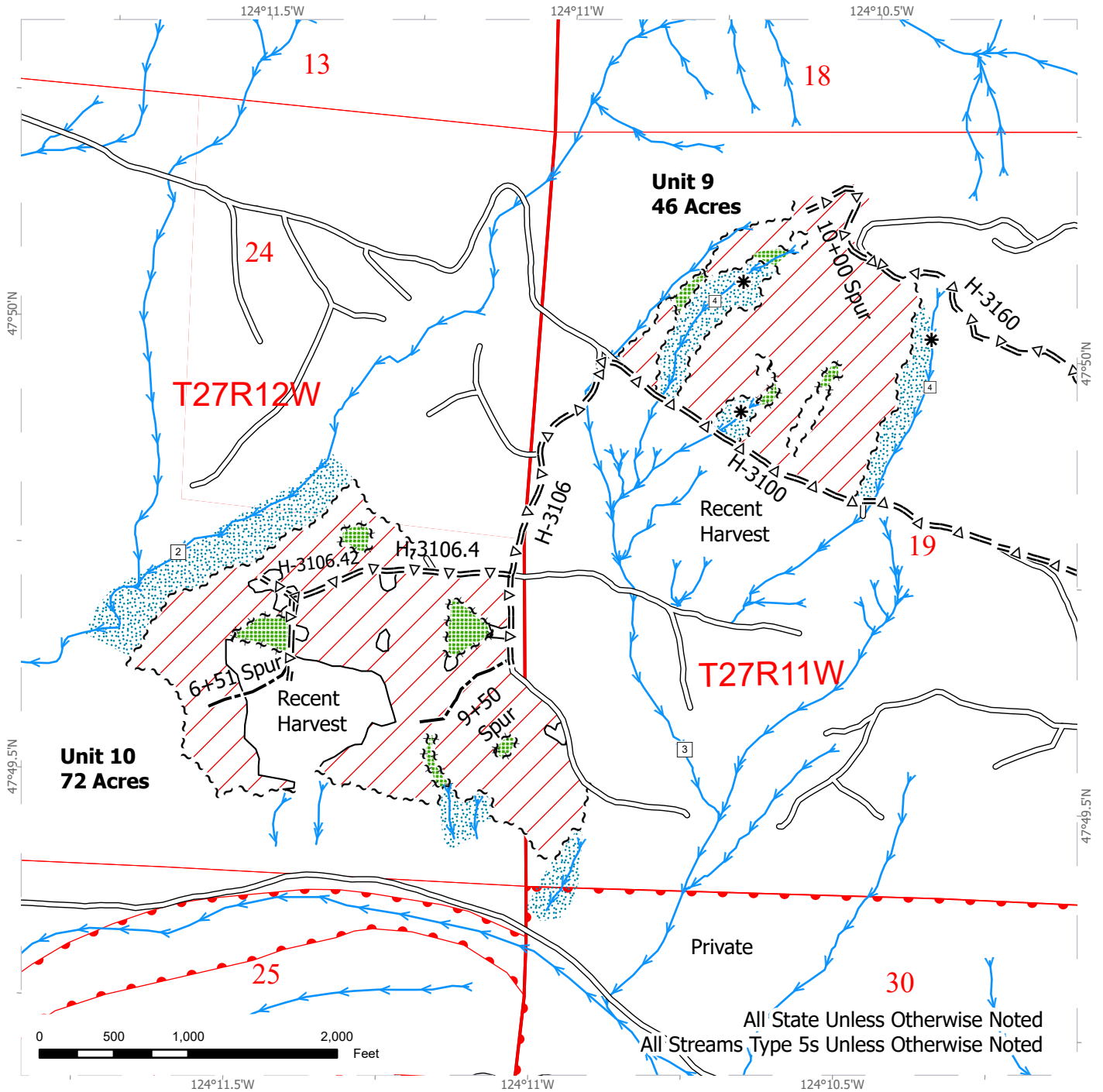


Streams	Stream Type	Public Land Survey Townships
Sale Boundary Tags	Stream Break	Public Land Survey Sections
Leave Tree Tags	Existing Roads	DNR Managed Lands
Variable Retention Harvest	Optional Pre-Haul Maintenance	
Leave Tree Area		
Riparian Mgt Zone		

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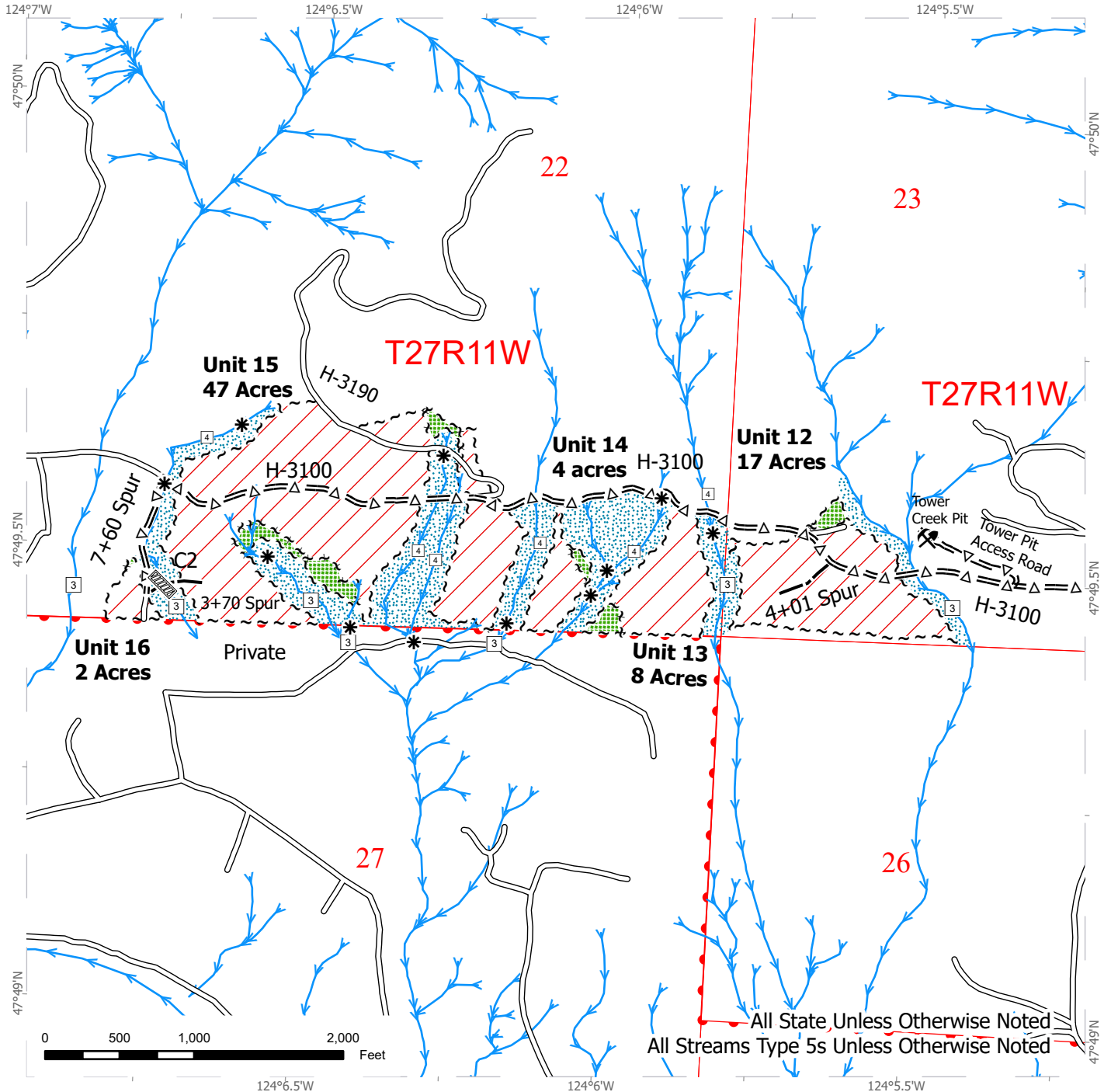
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Streams	Stream Type	Public Land Survey Townships
Sale Boundary Tags	Stream Break	Public Land Survey Sections
Leave Tree Tags	Existing Roads	DNR Managed Lands
Timber Type Change	Optional Pre-Haul Maintenance	
Variable Retention Harvest	Optional Construction	
Leave Tree Area		
Riparian Mgt Zone		

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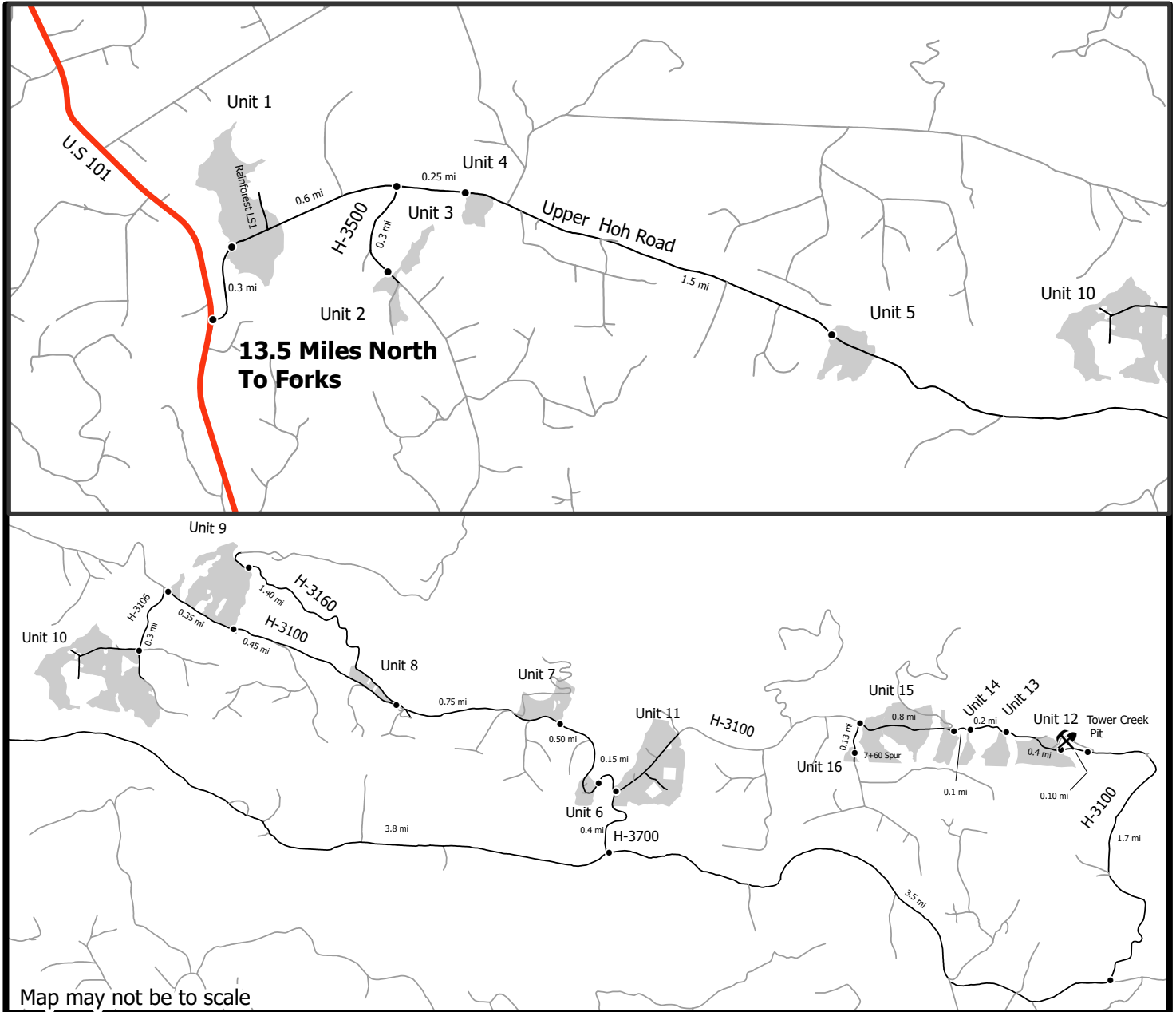
Streams	Stream Type	Stream Crossing
Sale Boundary Tags	Stream Break	Rock Pit
Leave Tree Tags	Existing Roads	Public Land Survey Townships
Variable Retention Harvest	Optional Pre-Haul Maintenance	Public Land Survey Sections
Leave Tree Area	Optional Construction	DNR Managed Lands
Riparian Mgt Zone		



DRIVING MAP

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Map may not be to scale

- Distance Indicator
- ⚡ Rock Pit
- Haul Route
- Other Route
- Harvest Unit
- Highway

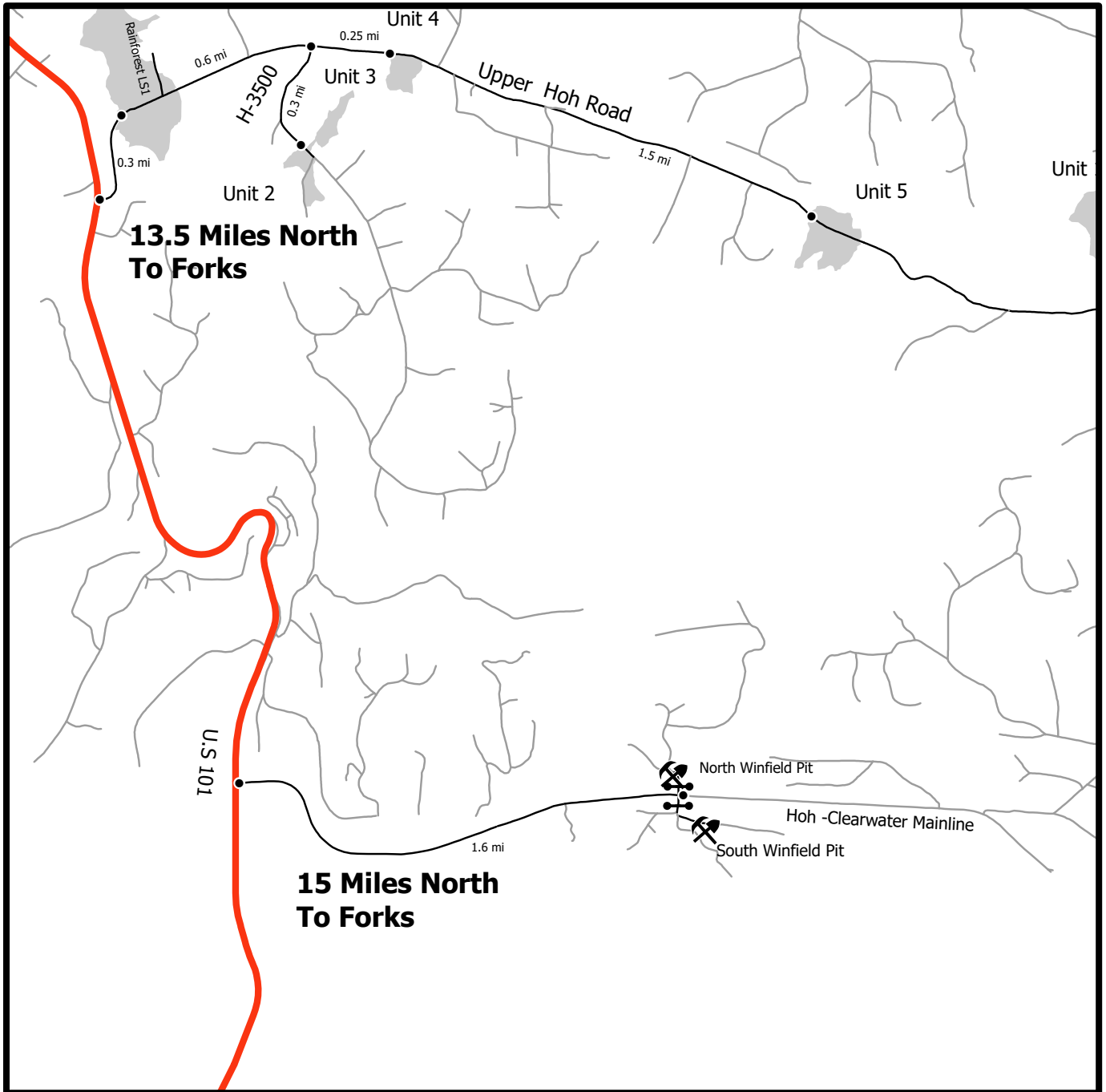
DRIVING DIRECTIONS:

- Unit 1: From the U.S 101 and Upper Hoh Road junction drive 0.3 miles east to reach unit 1.
- Unit 2: From unit 1, drive 0.6 miles east, turn on the H-3500, drive 0.3 miles and turn right to reach unit 2.
- Unit 3: Across from unit 2 on the other side of the road.
- Unit 4: From the Upper Hoh Road/ H-3500 junction, drive 0.25 miles east and turn right to reach unit 4.
- Unit 5: Drive 1.5 miles east from unit 4 and turn right to reach unit 5.
- Unit 6: From unit 5, drive 3.8 miles east, turn left on H-3700 for 0.4 miles. Turn left on to the H-3100 and continue forward for 0.15 miles.
- Unit 7: From unit 6 drive 0.5 miles west to reach unit 7.
- Unit 8: From unit 7, drive 0.75 miles west.
- Unit 9: From unit 8, merge onto the H-3160 and drive 1.4 miles to reach unit 9.
- Unit 10: From the H-3100/H-3160 junction, drive 0.8 miles west on the H-3100, turn on to the H-3106, drive 0.3 miles to reach unit 10.
- Unit 11: Unit can be accessed by arrival at the H-3700/H-3100 junction.
- Unit 12: From the Upper Hoh Road/H-3700 junction drive 3.5 miles east then turn left on to the eastern section the H-3100. Continue for 1.7 miles to reach unit 12.
- Unit 13: From unit 12, drive 0.4 miles west on the H-3100 to reach unit 13.
- Unit 14: From unit 13, drive west 0.2 miles.
- Unit 15: From unit 14 drive west 0.8 miles.
- Unit 16: From unit 15, turn on to the 7+60 Spur. Walk south for 0.13 miles to reach unit 16.

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- Distance Indicator
- Gate (AA1)
- ⚒ Rock Pit
- Haul Route
- Other Route
- Harvest Unit
- Highway

DRIVING DIRECTIONS:
 From U.S 101. Hoh-Clearwater Mainline junction drive 1.6 miles east. Turn left to arrive at North Winfield Access Road. South Winfield Pit access Road is located across the North Winfield Access Road.

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-0107171

SALE NAME: NEW FOX

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on January 29, 2025 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except trees marked with a band of blue paint or bounded out by leave tree area tags, or any down redcedar; bounded by timber sale boundary tags and the Upper Hoh Road in Units 1, 4; timber sale boundary tags, 3+60 Spur and H-3500 road in Unit 2; timber sale boundary tags in Units 3, 5; timber sale boundary tags and H-3100 road in Units 6,7; timber sale boundary tags and H-3100 & H-3160 roads in Units 8, 9; timber sale boundary tags, H-3106 & H-3106.4 and timber type change in Unit 10; timber sale boundary tags, H-3100 and H-3700 in Unit 11; timber sale boundary tags in Units 12, 13, 14, 16; timber sale boundary tags and H-3190 road in Unit 15.

All forest products described above located on approximately 370 acres on part(s) of Sections 19, 20, 21, 22, 23, 28, and 29 all in Township 27 North, Range 11 West, Sections 21, 22, 23, and 24 all in Township 27 North, Range 12 West W.M. in Jefferson County(s) as designated on the sale area and as shown on the attached timber sale map.

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

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

G-020 Inspection By Purchaser

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

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

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
A	SLASH PILING SPECS
B	GREEN TREE RETENTION PLAN

G-031 Contract Term

Purchaser shall 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-051 Contract Term Extension - Payment

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

- a. A written request for extension of the contract term must be received prior to the expiration date of the contract.
- b. Completion of all required roads and compliance with all contract and regulatory requirements.

- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

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

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

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

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

- e. Payment of \$786.00 per acre per annum for the acres on which an operating release has not been issued .
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.

- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-061 Inadvertent Discovery of Cultural Resources

Purchaser acknowledges that cultural resources as defined in WAC 222-16-010 may exist within the timber sale area and that the existence and location of such resources may be unknown at the time this contract is executed. Purchaser has a duty to exercise due care in its operations and in the event any human skeletal remains are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify local law enforcement in the most expeditious manner possible then notifying the Contract Administrator. In the event cultural resources are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify the Contract Administrator. Any potential resources shall not be removed or disturbed. Purchaser shall resume operations as directed in writing by the Contract Administrator.

G-062 Habitat Conservation Plan

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

ITP conditions. All HCP materials, including the ITP, are available for review at the State's Regional Offices and the administrative headquarters in Olympia, Washington.

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

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

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.
- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.

- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

- a. Risk

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

- b. Sale Area

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

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

- c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall cause the timber sale area subject to governmental regulation or order to be measured. The State shall calculate the percentage of the total sale area subject to the governmental regulation or order. The State shall reduce the total contract price by that calculated percentage. However, variations in

species, value, costs, or other items pertaining to the affected sale area will be analyzed and included in the adjustment if deemed appropriate by the State. The State will further reduce the total contract price by the reasonable cost of unamortized roads Purchaser constructed but was unable to fully use for removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-101 Forest Products Not Designated

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

Contract Item	Appraised Price	Overbid Factor	Price	Fees	Contract Payment Rate
Douglas fir	\$197.71	0	\$0.00	\$9.00	\$9.00
Hemlock	\$149.44	0	\$0.00	\$9.00	\$9.00

Red alder	\$137.05	0	\$0.00	\$9.00	\$9.00
Redcedar	\$315.17	0	\$0.00	\$9.00	\$9.00
Silver fir	\$139.23	0	\$0.00	\$9.00	\$9.00
Spruce	\$105.02	0	\$0.00	\$9.00	\$9.00
Other	\$198.67	0	\$0.00	\$9.00	\$9.00

G-106 Adding Naturally Damaged Forest Products

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

G-111 Title and Risk of Loss

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

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

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

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

G-120 Responsibility for Work

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

G-121 Exceptions

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

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

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

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

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

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

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

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

G-140 Indemnity

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

actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Purchaser waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

G-150 Insurance

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Forks, 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; Rainforest LS1, H-3100, H-3106, H-3106.4, H-3106.42, H-3150, H-3160, H-3170, H-3500, H-3700, 1+30 Spur, 3+50 Spur, 3+60 Spur, 3+70 Spur, 4+00 Spur, 4+01 Spur, 4+70 Spur, 10+00 Spur, 6+50 Spur, 6+51 Spur, 6+80 Spur, 6+81 Spur, 9+50 Spur, 7+60 Spur, 2+60 Spur, Tower Creek Pit Access Road, North Winfield Pit Access Road and South Winfield Pit Access Road, Hoh-clearwater Mainline. 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 Upper Hoh Road and H-3100 Road, 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 #55-102872 Nature Conservancy
- Easement #55-001460 USFS

G-390 Road Approach Permit Requirements

Purchaser agrees to comply with the attached terms and conditions of the road approach permit entered into between the State and Jefferson County Department of Public Works.

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:

- 55-102872 Nature Conservancy
- 55-001460 USFS

Section P: Payments and Securities

P-011 Initial Deposit

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

payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$279,353.00. The total contract price consists of a \$0.00 contract bid price plus \$279,353.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$100,000.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the

performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-013 Reserve Tree Damage Definition

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

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

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

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

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

H-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-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 utilizing rubber tired skidders in the sale area. The plan shall address the timing and location desired use, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval by the Contract Administrator.

H-051 Branding and Painting

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

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

H-080 Snags Not to be Felled

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using cable, cable-tethered, and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75 percent and less. Ground based equipment is limited to tracked equipment on sustained slopes that are 45 percent and less. Rubber tired skidders are restricted unless approved by the Contract Administrator. Rubber tired skidder must meet rutting and skidding requirements and have an approved harvest plan. 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. Purchaser shall fully suspend one end of logs above the ground during logging operations.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

1. Purchaser must have utility lines located before beginning operations, including road construction/reconstruction, or digging next to the following road(s) 4+70 Spur, 1+30 Spur, 4+00 spur and the 2+60 Spur.

2. Purchaser shall immediately repair all gate damage resulting from operations to an equal or better condition than existed at the time of the sale.
3. While felling timber, two of Warning signs must be posted on the Upper Hoh Road and the H-3100.
4. Yarding equipment shall not cross live streams without an HPA/FPHP.
5. The Purchaser shall notify all employees and contractors working on this sale that any danger tree, marked or unmarked, may be felled. Any felled marked danger tree shall 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-142 Wildlife Timing Restrictions

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

On portions of the H-3170 (Stations 5+70 - 13+90) and H-3100 East (Stations 99+75 - 121+70) Roads; Any road work, right-of-way timber falling and yarding, rock pit operations or operation of heavy equipment performed during the marbled murrelet nesting season (April 1 - September 23) is restricted to two hours after sunrise to two hours before sunset. This restriction does not apply to hauling timber, rock or equipment.

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

H-190 Completion of Settings

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

H-220 Protection of Residual or Adjacent Trees

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

H-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 7/31/2024 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on all roads listed in the road plan, authorized in Clause G-310, and not listed in Clause C-060. 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 Hoh-Clearwater Mainline, H-3100-East (stations 0+00 – 70+60), H-3700 (stations 0+00 - 20+40), North Winfield Pit Access Road and South Winfield Pit Access Road. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-140 Water Bars

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

Section S: Site Preparation and Protection**S-001 Emergency Response Plan**

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-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.

Units 1 and 5.

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-060 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

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

S-110 Resource Protection

No equipment may operate within 30' of all typed water unless authority is granted in writing by the Contract Administrator.

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

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

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

S-131 Refuse Disposal

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

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

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

D-041 Reserve Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-013, Reserve Tree Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve tree is not possible, the damaged trees result in substantial injury to the State. The value of the damaged reserve trees at the time of the breach is not readily ascertainable. Therefore, the Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged reserve trees that are not replaced in units 1-16.

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

William Wells

Print Name

Olympic Region Manager

Date: _____

Date: _____

Address: _____

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

STATE OF _____)

COUNTY OF _____)

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

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

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

Notary Public in and for the State of

My appointment expires _____

Specifications for Slash Piling

The areas shall be piled by creating circular piles of slash and brush conforming to the following specifications:

1. Piles shall be a minimum of 12 feet tall by 8 feet wide to a maximum of 30 feet tall and 16 feet wide. Piles shall be cone shaped and stable.
2. Piles shall be free of topsoil, large rotten logs and large stumps. No material larger than 8 inches in diameter shall be piled. Any burnable material shall be well scattered.
3. Piles shall not be placed on large stumps or logs.
4. Piles shall be stacked a minimum of 50 feet from all unit boundaries, Riparian Management Zones, leave tree areas and any standing timber; a minimum of 100 feet from any public roads and highways; and a minimum of 200 feet from any structures.
5. Piling shall be completed using an approved hydraulic shovel and grapples.
6. Slash and displaced soil shall be removed from swales and natural drainage channels concurrent with yarding.
7. Slash shall be placed in skid roads or ahead of machinery. Slash which accumulates on landings and/or roads shall be lopped and scattered within the harvest area or as designated by the Contract Administrator.
8. Slash generated during cable yarding shall be stacked in dirt free piles and shall not block roads or interfere with functioning of drainage structures, ditches, or stream channels.

Green Tree Retention Plan

Leave the following as directed by the Contract Administrator:

1. All trees marked with a blue band of paint and all leave tree area clumps shall remain standing.

The perimeter of the leave tree clumps are designated by Leave Tree Area tags. The tags face outward from the leave tree clumps.

Unit # Trees	# of Individually Marked Trees	#of Clumps	# of Trees Clumped	Total # of Leave
1	48	2	408	456
2	40	1	16	56
3	40	0	0	40
4	56	0	0	56
5	144	0	0	144
6	48	0	0	48
7	89	3	47	136
8	48	0	0	48
9	153	4	215	368
10	62	5	514	576
11	331	1	77	408
12	34	1	102	136
13	6	1	58	64
14	0	1	32	32
15	75	2	301	376
16	4	1	12	16



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

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

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

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

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

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

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

EXCISE TAX EXEMPT ACTIVITIES

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

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

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

(Revised 9/18)

PRE-CRUISE NARRATIVE

Sale Name: New Fox	Region: Olympic
Agreement #: 30-107171	District: Coast
Contact Forester: Erik Camacho-Roldan r: Phone / Location: (360) 640-9165	County(s): Choose a county, Jefferson
Alternate Contact: Mike Potter Phone / Location: (360) 640-0722	Other information: Click here to enter text.

Type of Sale: Lump Sum	
Harvest System: Ground based Click here to enter text.	73%
Harvest System: Uphill Cable Click here to enter text.	27%
Enter % of sale acres	

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Net Harvest Acres				Acreage Determination (List method and error of closure if applicable)
				RMZ/WMZ Acres	Leave Tree Acres	Existing Road Acres	Net Harvest Acres	
1	Sec 21, T27 R12W	07	80	20	3	0	57	GPS (Garmin)
2	Sec 21, T27 R12W	07	25	18	0	0	7	GPS (Garmin)
3	Sec 21, T27 R12W, Sec 22, T27 R12W	07	15	10	0	0	5	GPS (Garmin)
4	Sec 22, T27 R12W	07	10	3	0	0	7	GPS (Garmin)
5	Sec 23, T27 R12W	07	25	7	0	0	18	GPS (Garmin)
6	Sec 28, T27 R11W, Sec 29, T27 R11W	03	11	4	0	1	6	GPS (Garmin)
7	Sec 20, T27 R11W	03	36	18	1	0	17	GPS (Garmin)

8	Sec 19, T27 R11W, Sec 20, T27 R11W	03	8	2	0	0	6	GPS (Garmin)
9	Sec 19, T27 R11W	03	67	19	2	0	46	GPS (Garmin)
10	Sec 19, T27 R11W, Sec 24, T27 R12W	03, 07	98	19	5	1	72	GPS (Garmin)
11	Sec 21, T27 R11W, Sec 28, T27 R11W	03	65	12	0	2	51	GPS (Garmin)
12	Sec 23, T27 R11W	03	23	4	1	1	17	GPS (Garmin)
13	Sec 22, T27 R11W	03	13	4	1	0	8	GPS (Garmin)
14	Sec 22, T27 R11W	03	8	4	0	0	4	GPS (Garmin)
15	Sec 22, T27 R11W	03	61	10	3	1	47	GPS (Garmin)
16	Sec 22, T27 R11W	03	5	3	0	0	2	GPS (Garmin)
TOTAL ACRES			548	156	16	6	370	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 408 Individual Leave Trees: 48 Total Trees: 456
2	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 16 Individual Leave Trees: 40 Total Trees: 56
3	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: blue paint		Individual Leave Trees: 40 Total Trees: 40

4	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint, road Leave Tree Areas: blue paint		Individual Leave Trees: 56 Total Trees: 56
5	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: paint		Individual Leave Trees: 144 Total Trees: 144
6	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: blue paint		Individual Leave Trees: 48 Total Trees: 48
7	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 47 Individual Leave Trees: 89 Total Trees: 136
8	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: blue paint		Individual Leave Trees: 48 Total Trees: 48
9	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 215 Individual Leave Trees: 153 Total Trees: 368
10	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 514 Individual Leave Trees: 62 Total Trees: 576
11	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: blue paint		Clumped Leave Trees: 331 Individual Leave Trees: 77 Total Trees: 408

12	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 102 Individual Leave Trees: 34 Total Trees: 136
13	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 58 Individual Leave Trees:6 Total Trees:64
14	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 32 Total Trees: 32
15	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 301 Individual Leave Trees: 75 Total Trees: 376
16	Harvest Boundaries: Timber sale boundary tags, pink flagging, red flashers, and blue paint Leave Tree Areas: Leave tree area tags, pink flagging, red flashers and blue paint		Clumped Leave Trees: 12 Individual Leave Trees: 4 Total Trees: 16

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	Western Hemlock Douglas-fir, Sitka Spruce, 1,368 MBF	Drive in from Upper Hoh Road.	See cruise map
2	Western Hemlock Douglas-fir, Sitka Spruce, 168 MBF	Drive in from the H-3500.	See cruise map
3	Western Hemlock Douglas-fir, Sitka Spruce, 120 MBF	Walk in from the H-3500.	See cruise map

4	Western Hemlock Douglas-fir, Sitka Spruce, 168 MBF	Drive in from the Upper Hoh Road.	See cruise map
5	Western Hemlock Douglas-fir, Sitka Spruce, 432 MBF	Drive in from the Upper Hoh Road.	See cruise map
6	Western Hemlock Douglas-fir, Sitka Spruce, 144 MBF	Drive in from the H-3100.	See cruise map
7	Western Hemlock Douglas-fir, Sitka Spruce, 408 MBF	Drive in from the H-3100.	See cruise map
8	Western Hemlock Douglas-fir, Sitka Spruce, 144 MBF	Drive in from the H-3100.	See cruise map
9	Western Hemlock Douglas-fir, Sitka Spruce, 1,104 MBF	Drive in from the H-3100 or the H-3160.	See cruise map
10	Western Hemlock Douglas-fir, Sitka Spruce, 1,752 MBF	Drive in from the H-3106.	See cruise map
11	Western Hemlock Douglas-fir, Sitka Spruce, 1,224 MBF	Drive in from the H-3100.	See cruise map
12	Western Hemlock Douglas-fir, Sitka Spruce, 408 MBF	Drive in from the east side of Tower Creek from the H-3100 from the H-3101.	See cruise map
13	Western Hemlock Douglas-fir, Sitka Spruce, 192 MBF	Drive in from the east side of Tower Creek from the H-3100 from the H-3101.	See cruise map
14	Western Hemlock Douglas-fir, Sitka Spruce, 96 MBF	Drive in from the east side of Tower Creek from the H-3100 from the H-3101.	See cruise map
15	Western Hemlock Douglas-fir, Sitka Spruce, 1,128 MBF	Drive in from the east side of Tower Creek from the H-3100 from the H-3101.	See cruise map
16	Western Hemlock Douglas-fir, Sitka Spruce, 48 MBF	Drive in from the east side of Tower Creek from the H-3100 from the H-3101.	See cruise map
TOTAL MBF	8,904 MBF Estimated		

REMARKS:

A portion of unit 1 was part of the Rainforest thinning, completed in 2005. Portions of units 2, 3 and 5 were part of the Fox Tree thinning, completed in 1997.

Portions of units 7, 10, 12-16, were a part of the Willy Thinner thinning, completed in 2017.

All of unit 11 was thinning in the Hoh Down thinning, completed in 2015.

Some the units that were thinned have small clearcuts and timber type changes inside them.

Unit 9 was a part of the H-3100 Heli CT, completed in 2001.

All units are accessible by vehicle. Unit 3 requires a short walk-through timber. Tower Creek Bridge is blocked. Units 12-16 need to be accessed by the H-3101 that connects the H-3100.

Red Cedar and Sitka Spruce is more prevalent in wet flats.

Prepared By: Erik Camacho-Roldan

Date: 04/23/2024

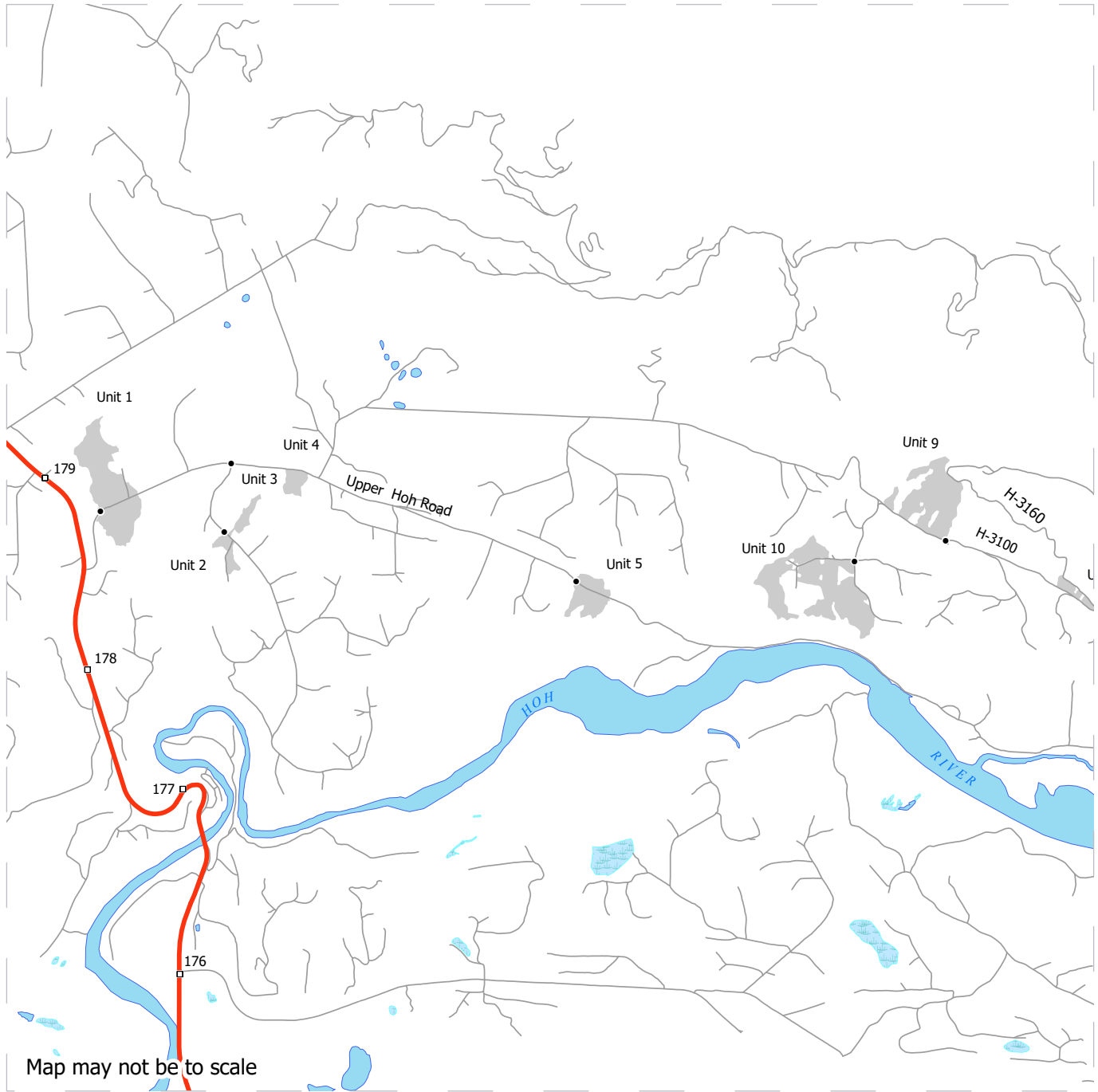
Title: Unit Forester

CC: Mike Potter

DRIVING MAP

SALE NAME: NEW FOX
AGREEMENT #: 30-107171
TOWNSHIP(S): T27R11W, T27R12W
TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 360-1560



Map may not be to scale

	Harvest Unit
	Highway
	Other Route
	Milepost Marker
	Distance Indicator

DRIVING DIRECTIONS:
INSERT TEXT HERE







DRIVING MAP

SALE NAME: NEW FOX
AGREEMENT#: 30-107171
TOWNSHIP(S): T27R11W, T27R12W
TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 360-1560



-  Harvest Unit
-  Highway
-  Other Route
-  Distance Indicator

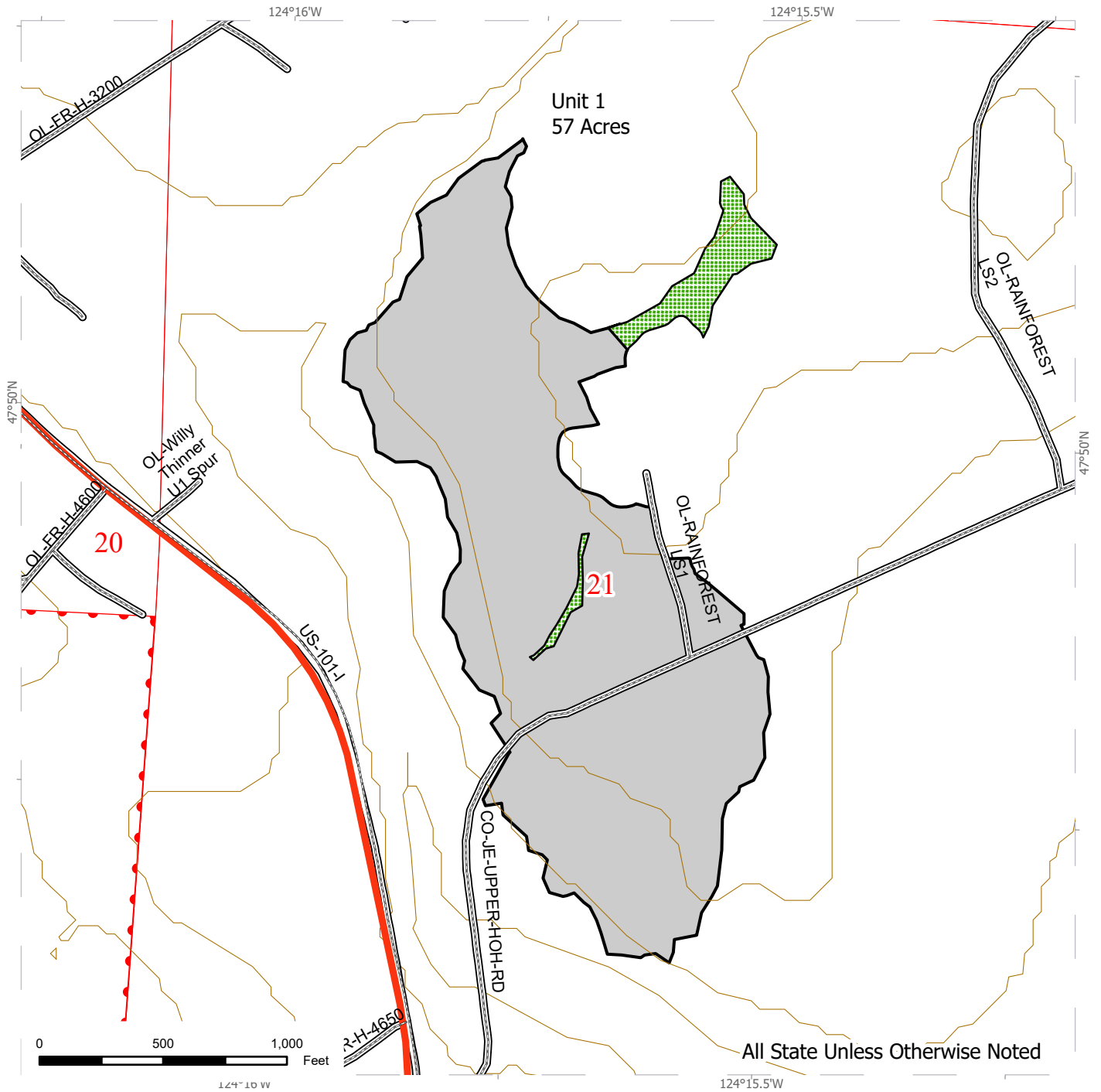
DRIVING DIRECTIONS:
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PRE - CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



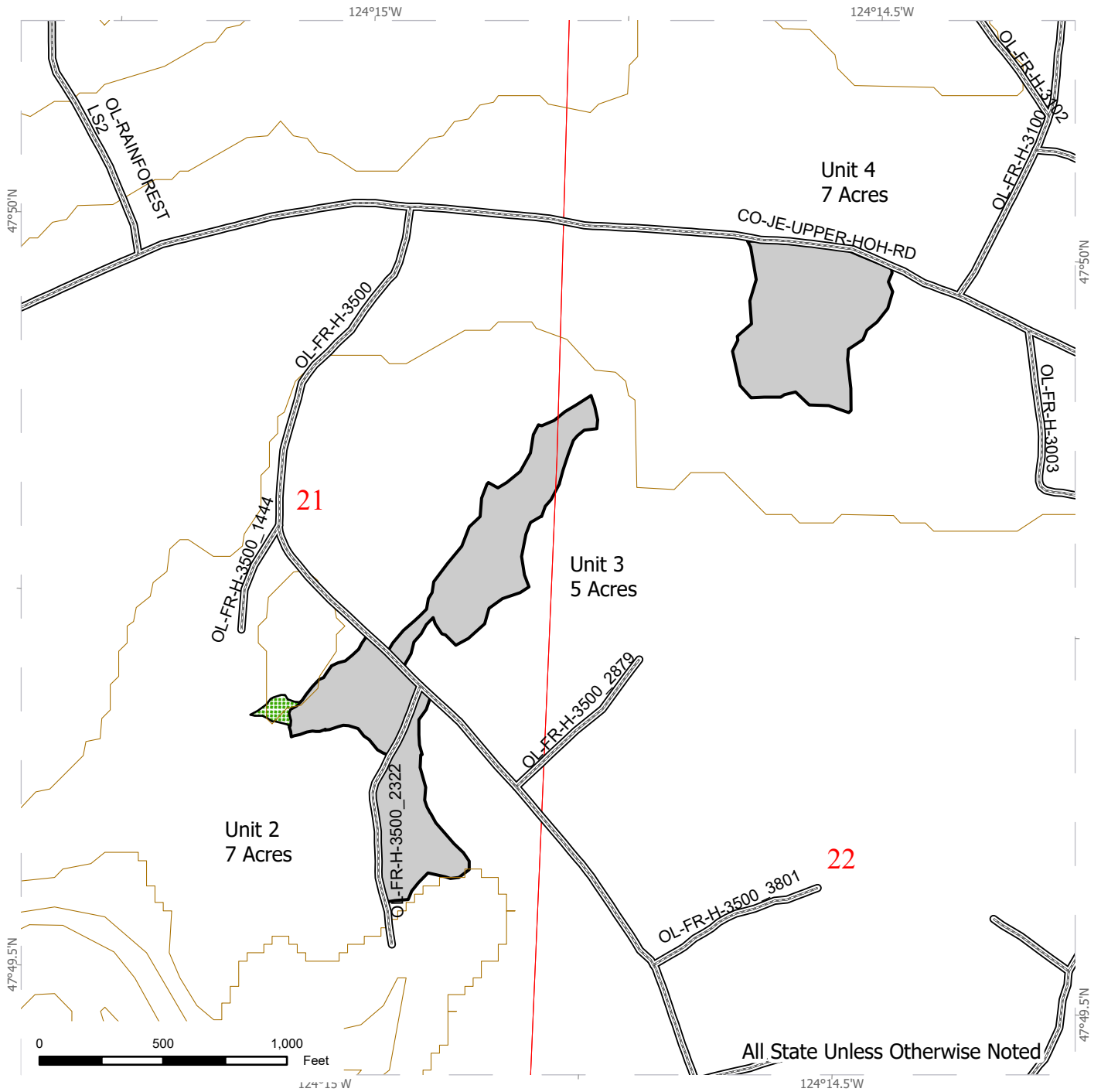
	Harvest Units
	Leave Tree Area
	Public Land Survey Sections
	Public Land Survey Townships




PRE-CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



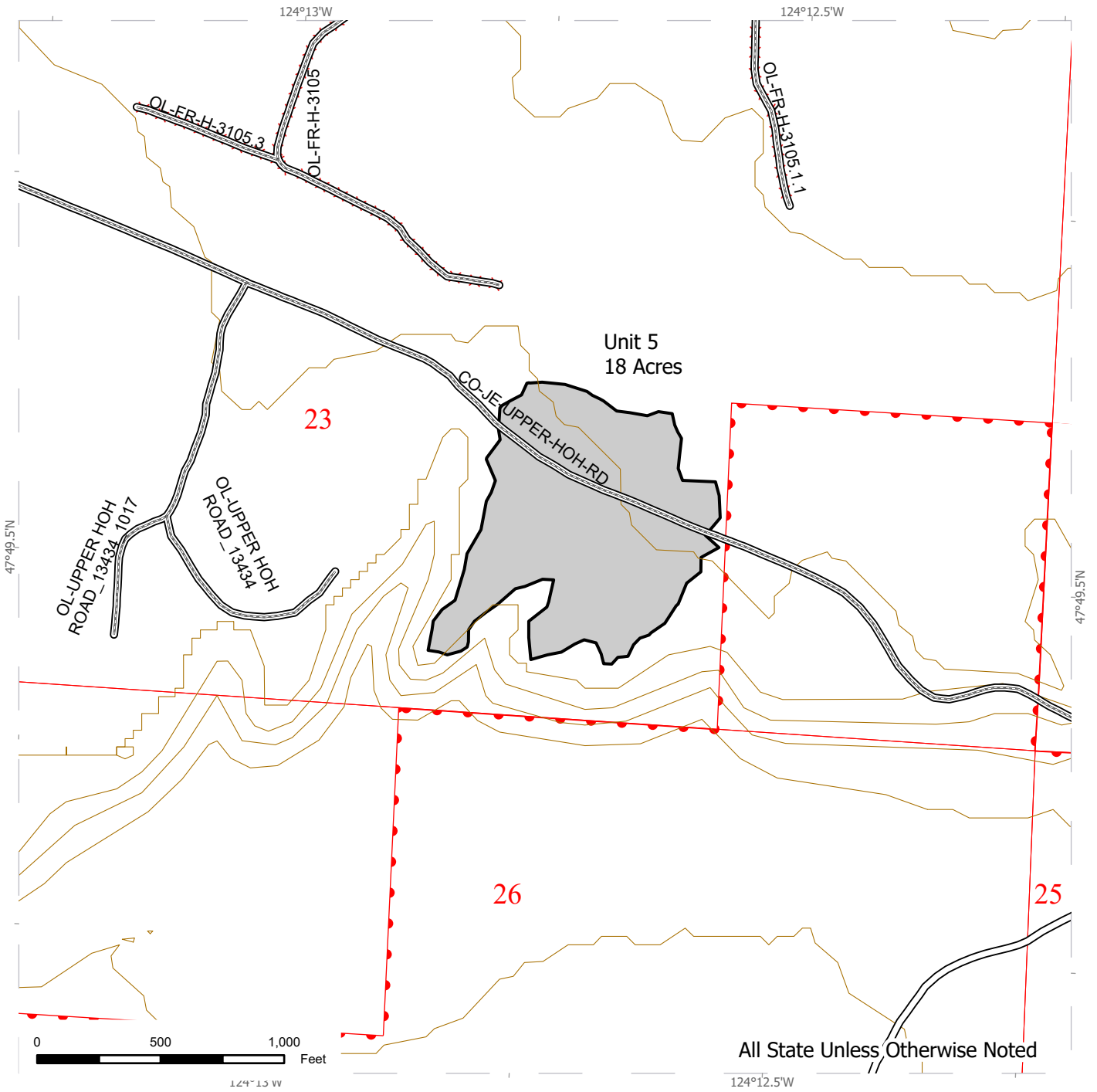
	Harvest Units
	Leave Tree Area
	Public Land Survey Sections
	Public Land Survey Townships



PRE-CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



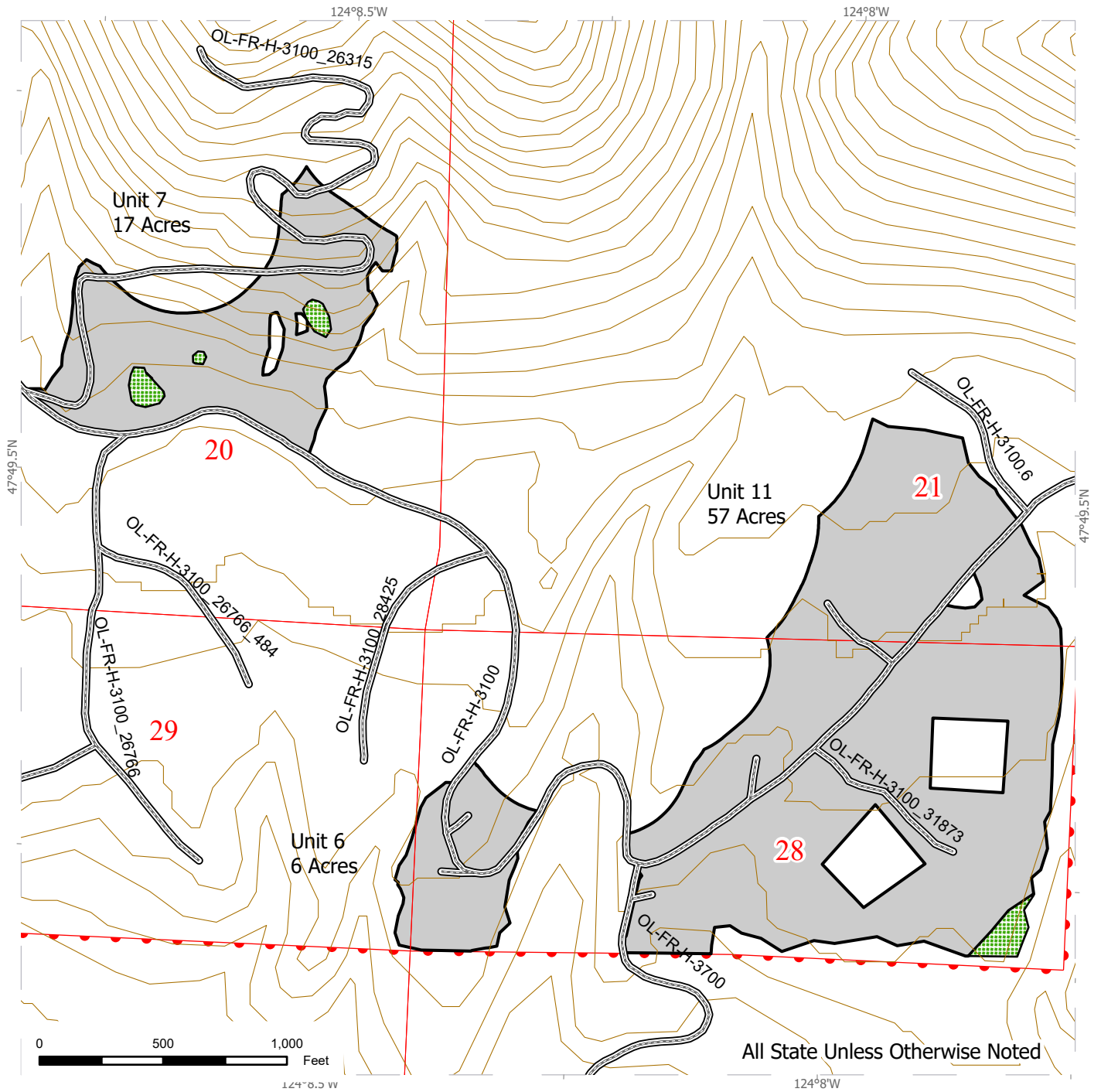
- Harvest Units
- Public Land Survey Sections
- Public Land Survey Townships



PRE-CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



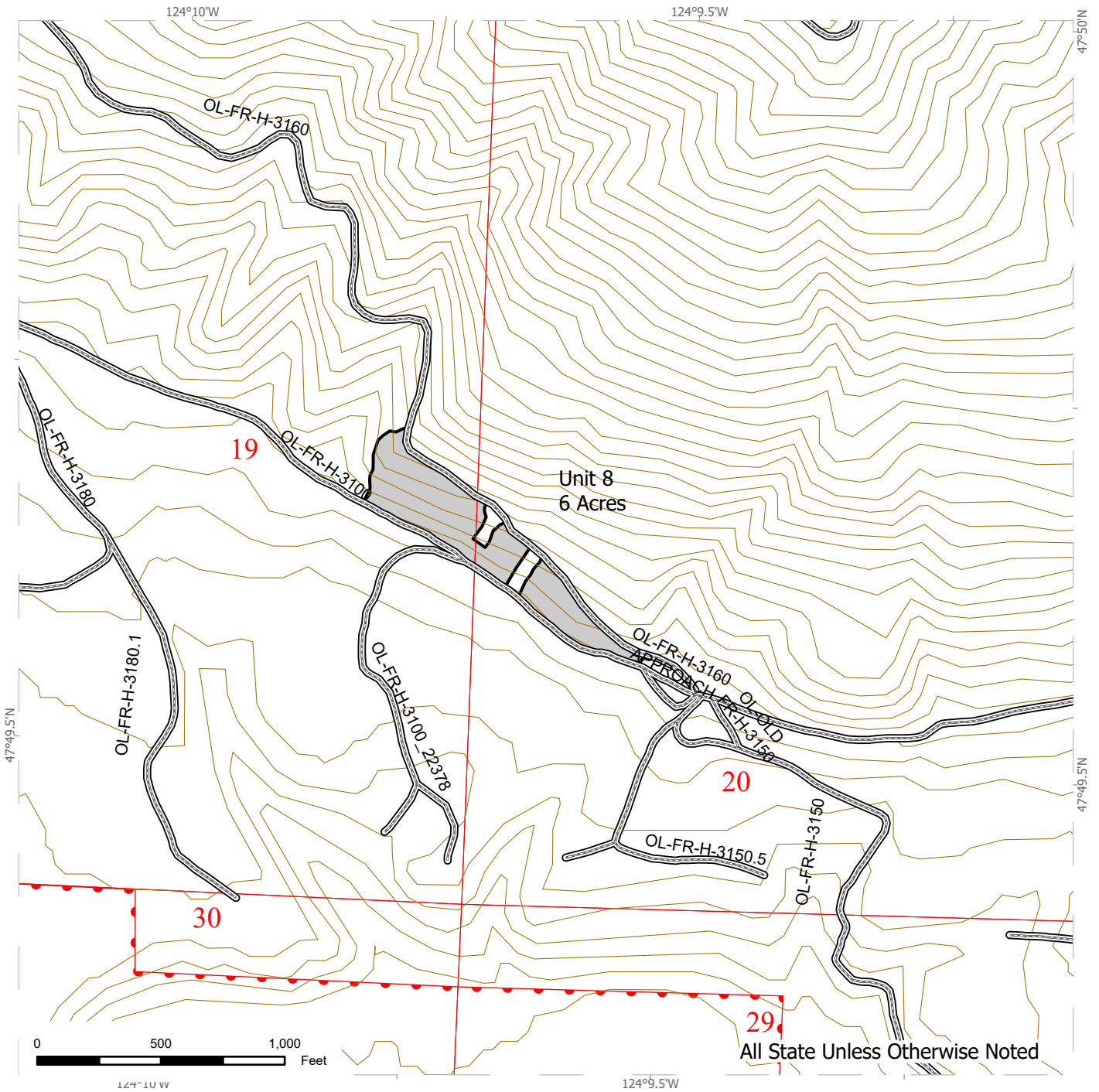
- Harvest Units
- Leave Tree Area
- Public Land Survey Sections
- Public Land Survey Townships




PRE-CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



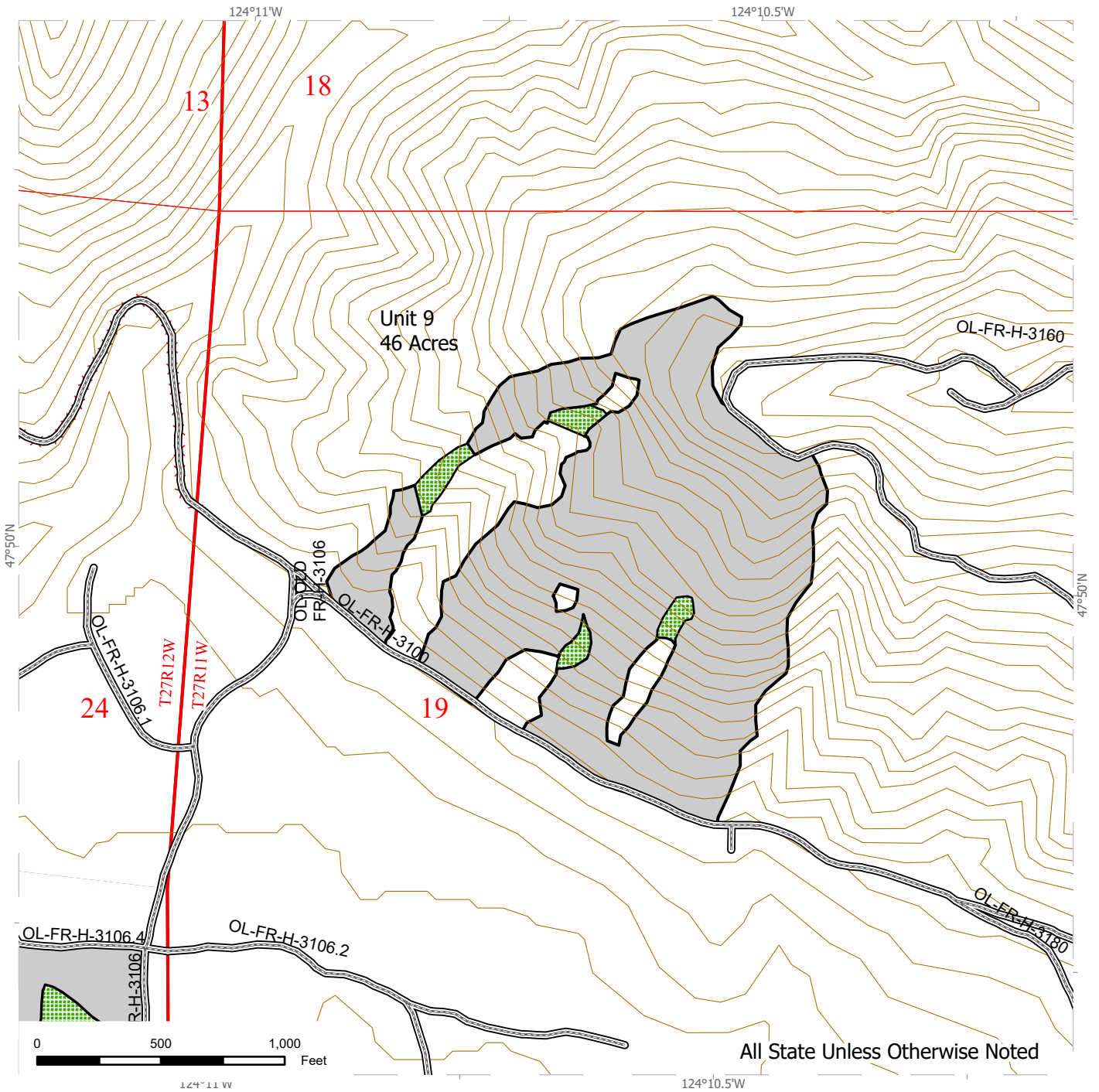
-  Harvest Units
-  Public Land Survey Sections
-  Public Land Survey Townships



PRE-CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



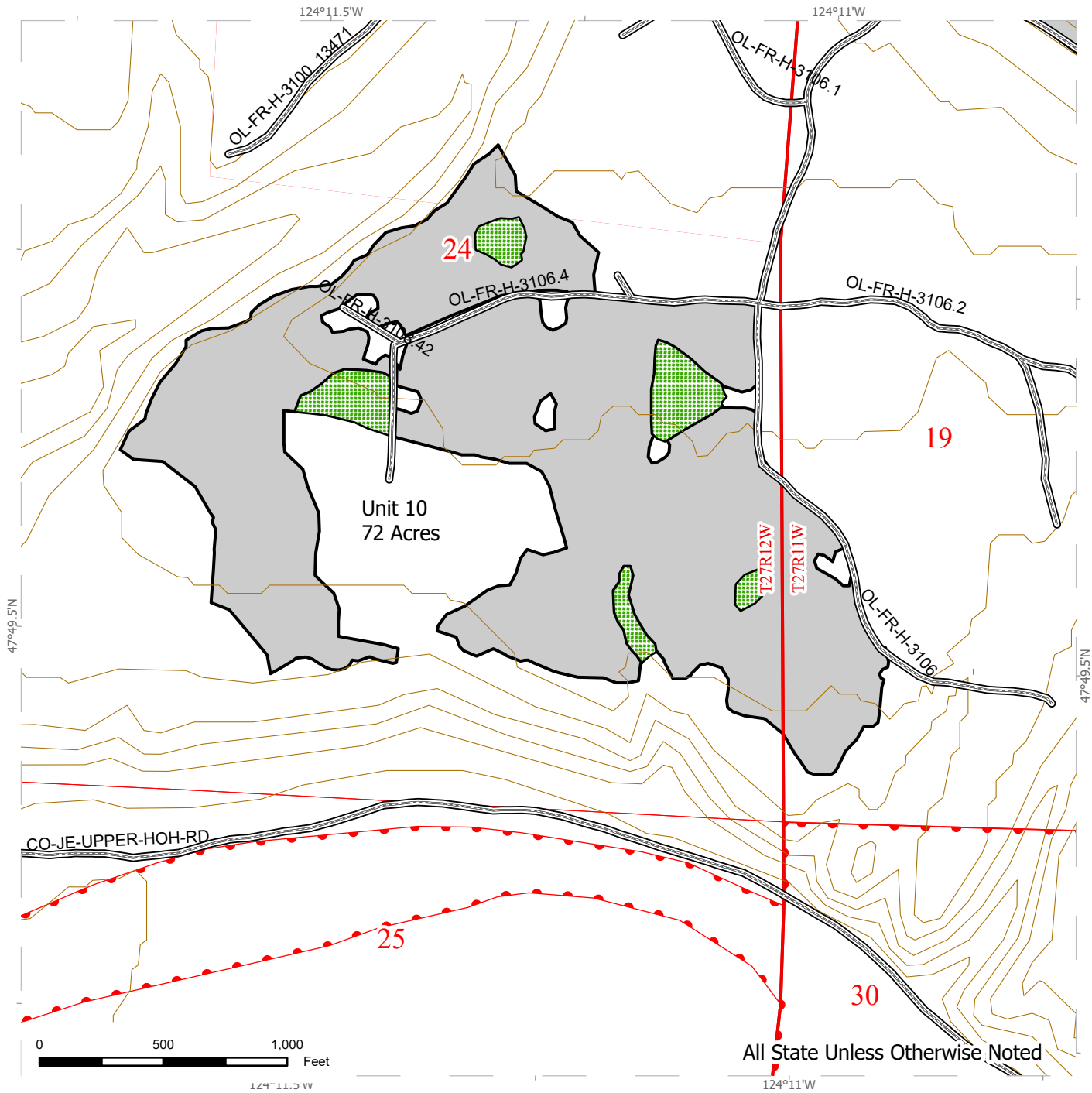
All State Unless Otherwise Noted



	Harvest Units
	Leave Tree Area
	Public Land Survey Sections
	Public Land Survey Townships

PRE - CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



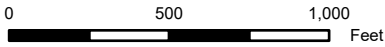
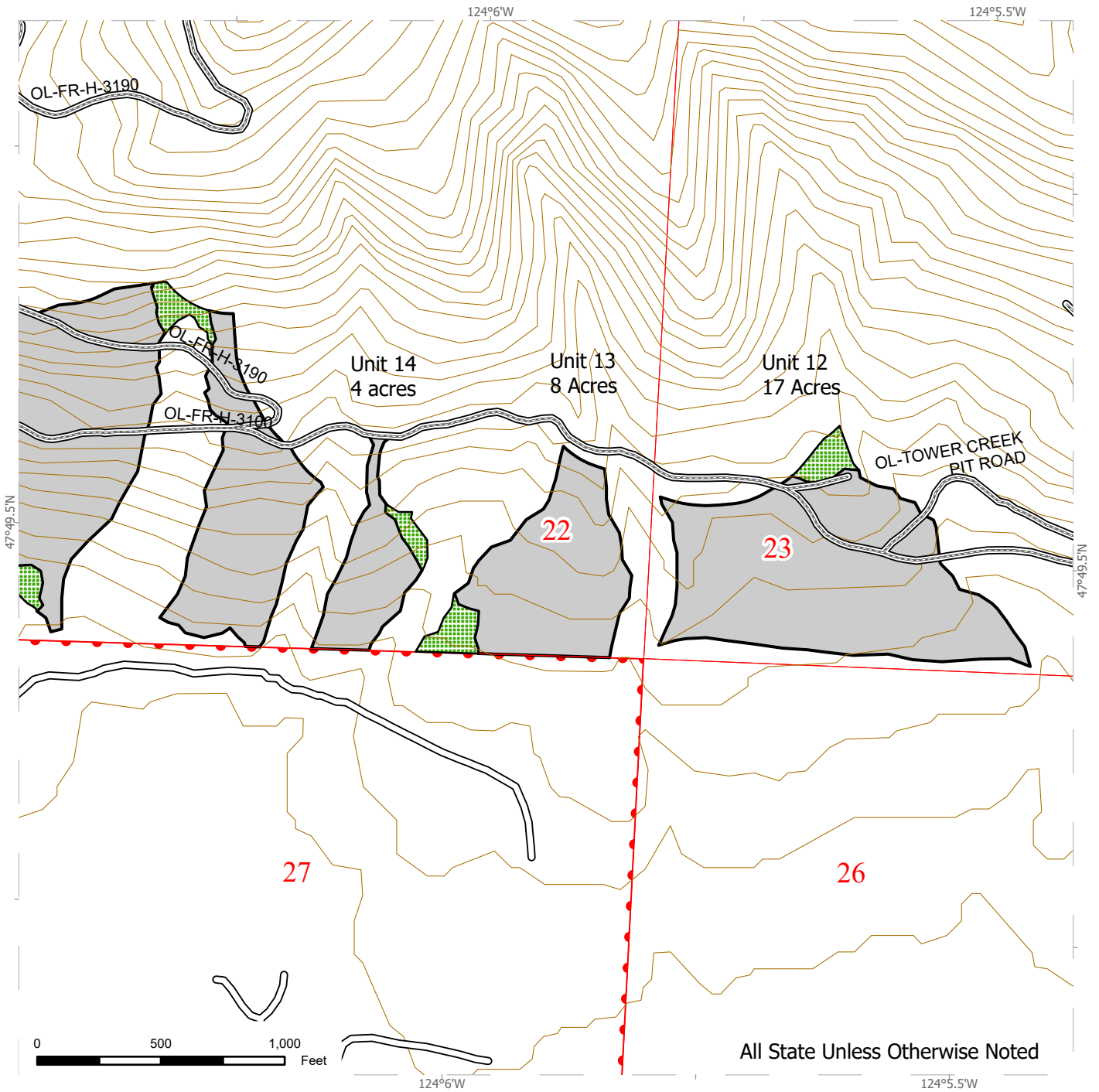
	Harvest Units
	Leave Tree Area
	Public Land Survey Sections
	Public Land Survey Townships



PRE - CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



All State Unless Otherwise Noted

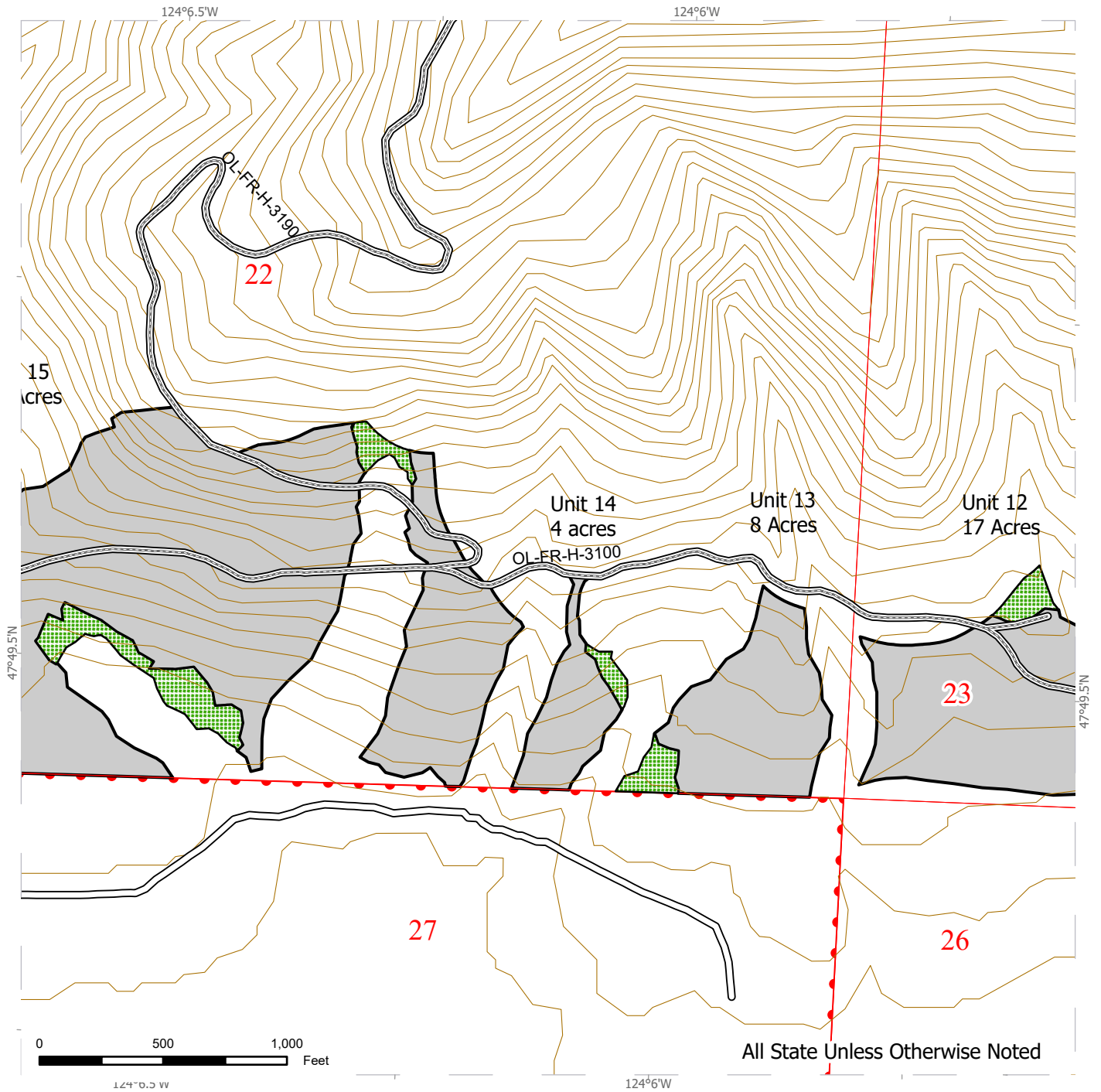
- Harvest Units
- Leave Tree Area
- Public Land Survey Sections
- Public Land Survey Townships



PRE-CRUISE MAP

SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



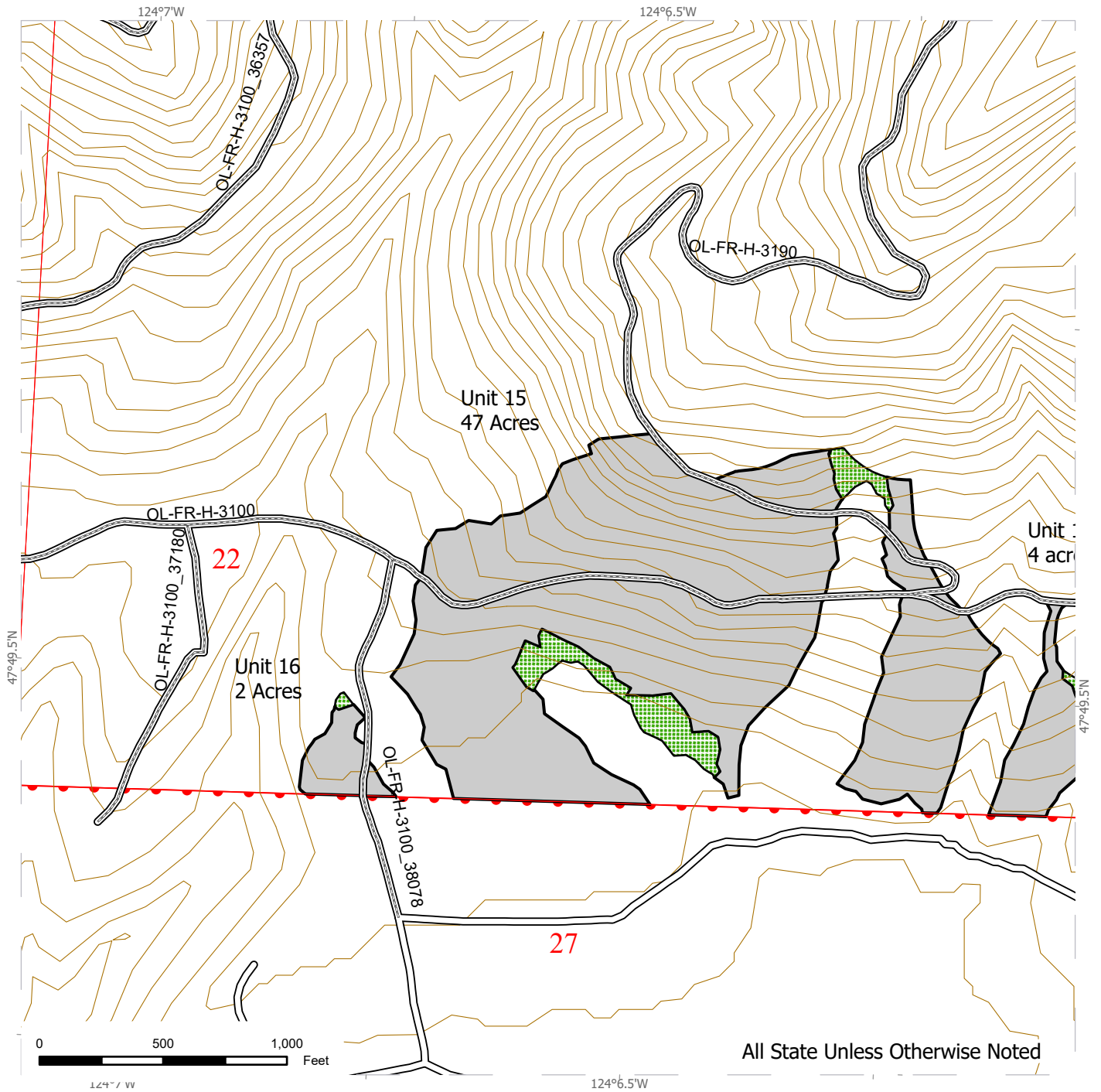
	Harvest Units
	Leave Tree Area
	Public Land Survey Sections
	Public Land Survey Townships



PRE-CRUISE MAP


SALE NAME: NEW FOX
Agreement #: 30-107171

COUNTY(S): Jefferson
TOWNSHIP(S): T27R11W, T27R12W



All State Unless Otherwise Noted

	Harvest Units
	Leave Tree Area
	Public Land Survey Sections
	Public Land Survey Townships



Timber Sale Cruise Report New Fox

Sale Name: NEW FOX

Sale Type: LUMP SUM

Region: OLYMPIC

District: COAST

Lead Cruiser: Kevin Peterson

Other Cruisers:

Cruise Narrative:

Location:

This sale is located off of of Upper Hoh Road and the H-3100. Access is pretty good to all units.

Cruise Design:

For this sale I used a couple different BAF combinations, so please refer to the cruise design table. Merch height was determined at 40% of the diameter at 16'. All logs were cruised in 40' lengths, except RC at 36'.

Timber Quality:

This sale was a mixture of WH and DF mostly with some SS, SF, RA and RC mixed throughout the sale. About half of the acreage was thinned in the past so there is more 2 and 3 saw out there. Common defects on the sale were sweep, forked tops and spike knots.

Logging and Stand Conditions:

This sale it 75% ground based harvest and 25% uphill cable. Most of the sale is pretty easy to get to and mostly flat besides unit 9. Unit 1 has a dense brush to get through in the previously thinned areas.

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
WH	15.9	6.5		6,251	2,172	3,158	854	68
DF	17.6	6.6		3,742	1,726	1,581	393	41
SS	16.7			335	136	161	38	
SF	17.3			172	80	49	18	24
RA	11.5			145		7	135	2
RC	16.0			100		96	4	
ALL	16.0	6.6		10,744	4,114	5,053	1,443	135

Timber Sale Notice Weight (tons)

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
WH	62,190	20,419	31,731	9,271	768
DF	32,741	14,075	14,678	3,661	327
SS	3,025	1,189	1,453	383	
SF	1,472	644	474	168	186

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
RA	1,438		64	1,357	18
RC	925		885	40	
ALL	101,791	36,327	49,285	14,881	1,298

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 (%)
248.1	2.3	116.5	1.0	28,961	2.6

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
NEW FOX U1	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	57.0	59.7	28	14	1
NEW FOX U2	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	7.0	6.9	4	4	0
NEW FOX U3	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	5.0	5.5	3	3	0
NEW FOX U4	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	7.0	7.1	4	4	0
NEW FOX U5	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	18.0	18.4	9	4	0
NEW FOX U6	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	6.0	6.3	3	3	0
NEW FOX U7	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	17.0	18.0	10	5	0
NEW FOX U8	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 0 ft	6.0	5.6	3	3	0
NEW FOX U9	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	46.0	47.3	22	12	0
NEW FOX U10	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	73.0	77.1	37	12	0
NEW FOX U11	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	51.0	51.6	26	13	0
NEW FOX U12	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	17.0	17.7	9	5	0
NEW FOX U13	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	8.0	9.2	4	4	0
NEW FOX U14	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	4.0	4.0	2	2	0

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
NEW FOX U15	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	47.0	50.0	24	12	0
NEW FOX U16	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	2.0	2.2	1	1	0
All		371.0	386.5	189	101	1

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.8	39	4,516	4,338	3.9	13,311.8	1,609.4
DF	LIVE	2 SAW	HQ-A	13.6	40	150	150	0.0	378.1	55.6
DF	LIVE	2 SAW	HQ-B	16.9	40	165	165	0.0	385.0	61.4
DF	LIVE	3 SAW	Domestic	8.6	38	4,439	4,263	4.0	14,678.0	1,581.4
DF	LIVE	4 SAW	Domestic	5.5	29	1,072	1,060	1.1	3,660.9	393.2
DF	LIVE	CULL	Cull	17.8	20	95	0	100.0	0.0	0.0
DF	LIVE	UTILITY	Pulp	6.4	30	110	110	0.0	326.7	40.7
RA	LIVE	3 SAW	Domestic	10.3	30	23	20	13.2	63.5	7.3
RA	LIVE	4 SAW	Domestic	5.8	33	368	365	0.9	1,357.1	135.4
RA	LIVE	UTILITY	Pulp	6.6	18	5	5	0.0	17.6	2.0
RC	LIVE	3 SAW	Domestic	8.3	36	306	259	15.3	884.8	96.1
RC	LIVE	4 SAW	Domestic	7.0	21	13	11	12.0	39.8	4.1
SF	LIVE	2 SAW	Domestic	15.1	40	230	216	6.1	643.5	80.3
SF	LIVE	3 SAW	Domestic	9.4	38	146	133	8.9	474.3	49.2
SF	LIVE	4 SAW	Domestic	5.5	31	49	48	1.1	168.0	18.0
SF	LIVE	UTILITY	Pulp	9.0	24	65	65	0.0	186.0	24.1
SS	LIVE	2 SAW	Domestic	13.3	40	382	366	4.1	1,188.6	135.8
SS	LIVE	3 SAW	Domestic	7.9	38	456	434	4.7	1,453.3	161.1
SS	LIVE	4 SAW	Domestic	5.6	33	104	103	1.5	383.5	38.2
WH	LIVE	2 SAW	Domestic	13.9	40	6,170	5,854	5.1	20,419.5	2,171.6
WH	LIVE	3 SAW	Domestic	8.8	38	8,641	8,511	1.5	31,731.4	3,157.7
WH	LIVE	4 SAW	Domestic	5.4	29	2,312	2,301	0.5	9,271.4	853.8
WH	LIVE	UTILITY	Pulp	6.1	31	183	183	0.0	767.7	68.1

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 7	LIVE	Pulp	5.2	24	28	0.0	69.6	10.2
DF	5 - 7	LIVE	Domestic	5.8	34	2,201	2.5	7,905.1	816.7

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	8 - 11	LIVE	Pulp	8.0	40	82	0.0	257.1	30.5
DF	8 - 11	LIVE	Domestic	9.8	38	3,121	4.1	10,433.8	1,158.0
DF	12 - 15	LIVE	Domestic	13.2	40	3,664	4.4	11,736.1	1,359.5
DF	12 - 15	LIVE	HQ-A	13.6	40	150	0.0	378.1	55.6
DF	12 - 15	LIVE	HQ-B	15.7	40	78	0.0	191.0	29.0
DF	16 - 19	LIVE	Cull	17.8	20	0	100.0	0.0	0.0
DF	16 - 19	LIVE	Domestic	18.0	40	588	1.4	1,382.7	218.3
DF	16 - 19	LIVE	HQ-B	18.6	40	87	0.0	194.1	32.3
DF	20+	LIVE	Domestic	20.8	40	85	0.0	193.1	31.6
RA	5 - 7	LIVE	Domestic	5.7	32	319	0.6	1,170.1	118.2
RA	5 - 7	LIVE	Pulp	6.6	18	5	0.0	17.6	2.0
RA	8 - 11	LIVE	Domestic	9.3	35	66	6.0	250.5	24.5
RC	5 - 7	LIVE	Domestic	6.4	35	125	1.2	424.0	46.3
RC	8 - 11	LIVE	Domestic	11.0	32	47	22.8	186.7	17.4
RC	12 - 15	LIVE	Domestic	13.9	24	17	0.0	35.5	6.4
RC	16 - 19	LIVE	Domestic	18.7	36	81	28.9	278.5	30.0
SF	5 - 7	LIVE	Pulp	5.2	17	5	0.0	13.9	1.7
SF	5 - 7	LIVE	Domestic	5.4	34	62	2.3	227.7	23.2
SF	8 - 11	LIVE	Pulp	8.1	20	3	0.0	11.7	1.3
SF	8 - 11	LIVE	Domestic	10.0	35	119	9.2	414.6	44.1
SF	12 - 15	LIVE	Pulp	12.5	32	14	0.0	39.1	5.4
SF	12 - 15	LIVE	Domestic	13.8	40	128	6.8	402.3	47.4
SF	16 - 19	LIVE	Pulp	17.5	40	42	0.0	121.3	15.7
SF	16 - 19	LIVE	Domestic	18.9	40	89	5.1	241.2	32.9
SS	5 - 7	LIVE	Domestic	6.0	33	262	2.0	959.8	97.3
SS	8 - 11	LIVE	Domestic	10.3	40	275	6.0	877.0	101.9
SS	12 - 15	LIVE	Domestic	13.3	40	366	4.1	1,188.6	135.8
WH	5 - 7	LIVE	Domestic	5.7	32	4,236	0.5	16,830.6	1,571.7
WH	5 - 7	LIVE	Pulp	5.7	31	137	0.0	580.5	50.7
WH	8 - 11	LIVE	Domestic	9.9	39	6,532	1.8	24,021.9	2,423.4
WH	12 - 15	LIVE	Pulp	12.7	40	47	0.0	187.3	17.4
WH	12 - 15	LIVE	Domestic	13.3	40	4,777	3.7	17,095.9	1,772.3
WH	16 - 19	LIVE	Domestic	16.9	39	1,053	10.8	3,277.8	390.5
WH	20+	LIVE	Domestic	21.1	40	68	10.0	196.0	25.2

Cruise Unit Report NEW FOX U1

Unit Sale Notice Volume (MBF): NEW FOX U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
WH	14.7	7.0		1,097	495	404	163	36
SF	17.3			158	80	38	16	24
DF	19.3	7.0		151	103	35	13	
RC	16.0			96		92	4	
SS	17.4			51	32	17	2	
RA	12.0			42		7	33	2
ALL	15.2	7.0		1,595	711	592	231	62

Unit Cruise Design: NEW FOX 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	57.0	59.7	28	14	1

Unit Cruise Summary: NEW FOX U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	46	114	4.1	1
SF	9	15	0.5	0
DF	9	15	0.5	1
RC	6	15	0.5	0
SS	3	7	0.3	0
RA	5	6	0.2	0
ALL	78	172	6.1	2

Unit Cruise Statistics: NEW FOX 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 (%)
WH	162.9	65.1	12.3	118.1	27.5	4.1	19,239	70.7	13.0
SF	21.4	172.2	32.5	129.2	28.2	9.4	2,768	174.4	33.9
DF	21.4	172.2	32.5	123.9	20.1	6.7	2,654	173.3	33.2
RC	21.4	129.3	24.4	78.4	27.0	11.0	1,680	132.1	26.8
SS	10.0	280.2	53.0	90.3	36.2	20.9	903	282.5	56.9

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	8.6	446.5	84.4	86.6	14.2	6.4	742	446.7	84.6
ALL	245.7	41.3	7.8	113.9	29.3	3.3	27,986	50.6	8.5

Unit Summary: NEW FOX U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	19.3	71	89	2,836	2,654	6.4	10.5	21.4	4.9	151.3
RA	LIVE	CUT	5	ALL	12.0	58	71	783	742	5.2	10.9	8.6	2.5	42.3
RC	LIVE	CUT	6	ALL	16.0	52	64	1,994	1,680	15.8	15.3	21.4	5.4	95.7
SF	LIVE	CUT	9	ALL	17.3	67	85	2,947	2,768	6.1	13.1	21.4	5.2	157.8
SS	LIVE	CUT	3	ALL	17.4	61	76	1,009	903	10.5	6.1	10.0	2.4	51.5
WH	LIVE	CUT	46	ALL	14.7	61	75	20,488	19,239	6.1	138.2	162.9	42.5	1,096.6
ALL	LIVE	CUT	78	ALL	15.2	61	76	30,057	27,986	6.9	194.1	245.7	62.7	1,595.2
ALL	ALL	ALL	78	ALL	15.2	61	76	30,057	27,986	6.9	194.1	245.7	62.7	1,595.2

Cruise Unit Report NEW FOX U2

Unit Sale Notice Volume (MBF): NEW FOX U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	14.9			113	36	54	23
DF	13.8			86	19	56	12
ALL	14.4			199	55	110	35

Unit Cruise Design: NEW FOX U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	7.0	6.9	4	4	0

Unit Cruise Summary: NEW FOX U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	11	11	2.8	0
DF	9	9	2.3	0
ALL	20	20	5.0	0

Unit Cruise Statistics: NEW FOX 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 (%)
WH	149.7	18.2	9.1	107.7	24.0	7.2	16,127	30.1	11.6
DF	122.5	22.2	11.1	100.7	26.0	8.7	12,340	34.2	14.1
ALL	272.2	0.0	0.0	104.6	24.4	5.5	28,466	24.4	5.5

Unit Summary: NEW FOX U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	13.8	65	80	12,340	12,340	0.0	117.9	122.5	33.0	86.4
WH	LIVE	CUT	11	ALL	14.9	67	83	17,630	16,127	8.5	123.6	149.7	38.8	112.9
ALL	LIVE	CUT	20	ALL	14.4	66	82	29,970	28,466	5.0	241.5	272.2	71.8	199.3
ALL	ALL	ALL	20	ALL	14.4	66	82	29,970	28,466	5.0	241.5	272.2	71.8	199.3

Cruise Unit Report NEW FOX U3

Unit Sale Notice Volume (MBF): NEW FOX U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	16.2			98	45	41	13
DF	13.1			41	7	21	12
ALL	14.9			139	52	62	25

Unit Cruise Design: NEW FOX U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	5.0	5.5	3	3	0

Unit Cruise Summary: NEW FOX U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	9	9	3.0	0
DF	5	5	1.7	0
ALL	14	14	4.7	0

Unit Cruise Statistics: NEW FOX 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 (%)
WH	163.3	33.3	19.2	119.9	23.5	7.8	19,585	40.8	20.8
DF	90.7	34.6	20.0	90.1	34.1	15.2	8,172	48.6	25.1
ALL	254.1	32.7	18.9	109.3	28.9	7.7	27,756	43.7	20.4

Unit Summary: NEW FOX U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	5	ALL	13.1	56	69	8,841	8,172	7.6	96.9	90.7	25.1	40.9
WH	LIVE	CUT	9	ALL	16.2	69	86	20,575	19,585	4.8	114.1	163.3	40.6	97.9
ALL	LIVE	CUT	14	ALL	14.9	63	78	29,416	27,756	5.6	211.0	254.1	65.6	138.8
ALL	ALL	ALL	14	ALL	14.9	63	78	29,416	27,756	5.6	211.0	254.1	65.6	138.8

Cruise Unit Report NEW FOX U4

Unit Sale Notice Volume (MBF): NEW FOX U4

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	16.8			156	56	81	19
DF	14.2			67	17	37	13
ALL	15.7			223	73	118	32

Unit Cruise Design: NEW FOX U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	7.0	7.1	4	4	0

Unit Cruise Summary: NEW FOX U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	13	13	3.3	0
DF	7	7	1.8	0
ALL	20	20	5.0	0

Unit Cruise Statistics: NEW FOX 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 (%)
WH	176.9	15.4	7.7	126.1	19.8	5.5	22,310	25.1	9.4
DF	95.3	28.6	14.3	100.5	31.1	11.7	9,576	42.2	18.5
ALL	272.2	16.3	8.2	117.1	25.0	5.6	31,886	29.9	9.9

Unit Summary: NEW FOX U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	7	ALL	14.2	61	76	10,355	9,576	7.5	86.6	95.3	25.3	67.0
WH	LIVE	CUT	13	ALL	16.8	73	91	23,264	22,310	4.1	114.9	176.9	43.2	156.2
ALL	LIVE	CUT	20	ALL	15.7	68	84	33,619	31,886	5.2	201.5	272.2	68.4	223.2
ALL	ALL	ALL	20	ALL	15.7	68	84	33,619	31,886	5.2	201.5	272.2	68.4	223.2

Cruise Unit Report NEW FOX U5

Unit Sale Notice Volume (MBF): NEW FOX U5

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	13.6			242	62	129	50
DF	12.0			157	30	88	39
SS	17.4			105	37	53	15
RA	11.0			16			16
ALL	13.6			519	129	270	120

Unit Cruise Design: NEW FOX U5

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	18.0	18.4	9	4	0

Unit Cruise Summary: NEW FOX U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	7	23	2.6	0
DF	5	15	1.7	0
SS	5	9	1.0	0
RA	1	3	0.3	0
ALL	18	50	5.6	0

Unit Cruise Statistics: NEW FOX 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	139.1	80.9	27.0	96.5	15.3	5.8	13,432	82.4	27.6
DF	90.7	79.4	26.5	96.2	20.4	9.1	8,729	82.0	28.0
SS	54.4	111.8	37.3	106.9	14.2	6.4	5,818	112.7	37.8
RA	13.3	212.1	70.7	65.2	0.0	0.0	869	212.1	70.7
ALL	297.6	15.0	5.0	96.9	18.2	4.3	28,848	23.6	6.6

Unit Summary: NEW FOX U5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	5	ALL	12.7	56	68	9,004	8,729	3.1	103.1	90.7	25.5	157.1
RA	LIVE	CUT	1	ALL	11.6	51	60	869	869	0.0	18.2	13.3	3.9	15.6
SS	LIVE	CUT	5	ALL	17.4	70	88	6,209	5,818	6.3	33.0	54.4	13.1	104.7
WH	LIVE	CUT	7	ALL	13.5	61	76	14,179	13,432	5.3	140.0	139.1	37.9	241.8
ALL	LIVE	CUT	18	ALL	13.6	60	74	30,261	28,848	4.7	294.3	297.6	80.3	519.3
ALL	ALL	ALL	18	ALL	13.6	60	74	30,261	28,848	4.7	294.3	297.6	80.3	519.3

Cruise Unit Report NEW FOX U6

Unit Sale Notice Volume (MBF): NEW FOX U6

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	18.0			107	44	45	8	10
WH	12.7			72	17	40	14	
SS	17.0			11		9	2	
ALL	15.2			190	61	94	24	10

Unit Cruise Design: NEW FOX 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	6.0	6.3	3	3	0

Unit Cruise Summary: NEW FOX U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	11	11	3.7	0
WH	8	8	2.7	0
SS	1	1	0.3	0
ALL	20	20	6.7	0

Unit Cruise Statistics: NEW FOX 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	146.7	56.8	32.8	121.7	7.9	2.4	17,855	57.3	32.9
WH	106.7	21.7	12.5	111.9	30.7	10.9	11,941	37.6	16.6
SS	13.3	173.2	100.0	140.2	0.0	0.0	1,870	173.2	100.0
ALL	266.7	22.9	13.2	118.7	19.5	4.4	31,666	30.1	13.9

Unit Summary: NEW FOX U6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	11	ALL	18.0	82	103	18,430	17,855	3.1	83.0	146.7	34.6	107.1
SS	LIVE	CUT	1	ALL	17.0	80	102	1,870	1,870	0.0	8.5	13.3	3.2	11.2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	8	ALL	12.7	56	68	12,024	11,941	0.7	121.3	106.7	29.9	71.6
ALL	LIVE	CUT	20	ALL	15.2	67	83	32,324	31,666	2.0	212.8	266.7	67.7	190.0
ALL	ALL	ALL	20	ALL	15.2	67	83	32,324	31,666	2.0	212.8	266.7	67.7	190.0

Cruise Unit Report NEW FOX U7

Unit Sale Notice Volume (MBF): NEW FOX U7

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
WH	13.7	6.0		250	46	152	52	
DF	17.6	6.0		222	75	109	23	14
SS	17.0			19		16	4	
ALL	15.3	6.0		491	121	277	79	14

Unit Cruise Design: NEW FOX U7

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	17.0	18.0	10	5	0

Unit Cruise Summary: NEW FOX U7

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	16	32	3.2	1
DF	16	27	2.7	1
SS	1	2	0.2	0
ALL	33	61	6.1	2

Unit Cruise Statistics: NEW FOX 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 (%)
WH	128.0	41.1	13.0	115.0	24.8	6.2	14,726	48.0	14.4
DF	108.0	60.6	19.2	120.7	7.7	1.9	13,040	61.1	19.3
SS	8.0	210.8	66.7	140.2	0.0	0.0	1,122	210.8	66.7
ALL	244.0	33.2	10.5	118.4	17.8	3.1	28,888	37.7	10.9

Unit Summary: NEW FOX U7

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	16	ALL	17.6	81	103	13,558	13,040	3.8	63.9	108.0	25.7	221.7
SS	LIVE	CUT	1	ALL	17.0	80	102	1,122	1,122	0.0	5.1	8.0	1.9	19.1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	16	ALL	13.7	63	77	14,806	14,726	0.5	125.0	128.0	34.6	250.3
ALL	LIVE	CUT	33	ALL	15.2	69	86	29,485	28,888	2.0	194.0	244.0	62.3	491.1
ALL	ALL	ALL	33	ALL	15.2	69	86	29,485	28,888	2.0	194.0	244.0	62.3	491.1

Cruise Unit Report NEW FOX U8

Unit Sale Notice Volume (MBF): NEW FOX U8

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	14.8			99	27	55	17
WH	13.1			73	40	5	28
RA	14.0			6			6
ALL	14.0			178	67	60	51

Unit Cruise Design: NEW FOX U8

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 0 ft	6.0	5.6	3	3	0

Unit Cruise Summary: NEW FOX U8

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	9	9	3.0	0
WH	7	7	2.3	0
RA	1	1	0.3	0
ALL	17	17	5.7	0

Unit Cruise Statistics: NEW FOX 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 (%)
DF	163.3	33.3	19.2	100.8	17.2	5.7	16,469	37.5	20.1
WH	127.0	24.7	14.3	95.7	22.5	8.5	12,158	33.5	16.6
RA	13.3	173.2	100.0	79.5	0.0	0.0	1,060	173.2	100.0
ALL	303.7	9.3	5.4	97.8	19.2	4.7	29,687	21.3	7.1

Unit Summary: NEW FOX U8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	14.8	60	75	17,268	16,469	4.6	136.7	163.3	42.5	98.8
RA	LIVE	CUT	1	ALL	14.0	57	70	1,060	1,060	0.0	12.5	13.3	3.6	6.4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	7	ALL	13.1	57	70	12,924	12,158	5.9	135.7	127.0	35.1	72.9
ALL	LIVE	CUT	17	ALL	14.0	59	72	31,253	29,687	5.0	284.9	303.7	81.1	178.1
ALL	ALL	ALL	17	ALL	14.0	59	72	31,253	29,687	5.0	284.9	303.7	81.1	178.1

Cruise Unit Report NEW FOX U9

Unit Sale Notice Volume (MBF): NEW FOX U9

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
DF	19.7	7.0		1,015	699	263	54	
WH	16.8			840	356	422	52	10
SF	17.2			14		11	2	
RC	15.0			4		4		
ALL	18.0	7.0		1,874	1,055	701	108	10

Unit Cruise Design: NEW FOX U9

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	46.0	47.3	22	12	0

Unit Cruise Summary: NEW FOX U9

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	30	60	2.7	1
WH	32	53	2.4	0
SF	1	1	0.0	0
RC	1	1	0.0	0
ALL	64	115	5.2	1

Unit Cruise Statistics: NEW FOX 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 (%)
DF	148.5	95.5	20.4	148.7	29.8	5.4	22,072	100.0	21.1
WH	131.2	100.6	21.4	139.3	18.9	3.3	18,270	102.4	21.7
SF	2.5	469.0	100.0	121.5	0.0	0.0	301	469.0	100.0
RC	1.8	469.0	100.0	53.0	0.0	0.0	96	469.0	100.0
ALL	283.9	34.5	7.4	143.5	26.1	3.3	40,739	43.3	8.0

Unit Summary: NEW FOX U9

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	30	ALL	19.7	82	105	23,322	22,072	5.4	70.1	148.5	33.5	1,015.3
RC	LIVE	CUT	1	ALL	15.0	45	58	96	96	0.0	1.5	1.8	0.5	4.4
SF	LIVE	CUT	1	ALL	17.2	70	89	301	301	0.0	1.5	2.5	0.6	13.8
WH	LIVE	CUT	32	ALL	16.8	71	92	18,297	18,270	0.1	85.2	131.2	32.0	840.4
ALL	LIVE	CUT	64	ALL	18.1	75	97	42,016	40,739	3.0	158.3	283.9	66.5	1,874.0
ALL	ALL	ALL	64	ALL	18.1	75	97	42,016	40,739	3.0	158.3	283.9	66.5	1,874.0

Cruise Unit Report NEW FOX U10

Unit Sale Notice Volume (MBF): NEW FOX U10

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
WH	17.1			1,945	660	1,050	234	
SS	14.6			53	25	28		
RA	8.8			11			11	
DF	19.0			5		4		1
ALL	16.3			2,014	685	1,083	246	1

Unit Cruise Design: NEW FOX U10

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	73.0	77.1	37	12	0

Unit Cruise Summary: NEW FOX U10

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	58	201	5.4	0
SS	2	7	0.2	0
RA	2	2	0.1	0
DF	1	1	0.0	0
ALL	63	211	5.7	0

Unit Cruise Statistics: NEW FOX U10

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	217.3	38.2	6.3	122.6	11.8	1.6	26,639	40.0	6.5
SS	7.6	390.8	64.2	96.5	23.8	16.9	730	391.5	66.4
RA	2.2	608.3	100.0	71.3	17.7	12.5	154	608.5	100.8
DF	1.1	608.3	100.0	59.4	0.0	0.0	64	608.3	100.0
ALL	228.1	32.5	5.3	120.9	15.8	2.0	27,588	36.1	5.7

Unit Summary: NEW FOX U10

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	1	ALL	19.0	54	66	91	64	29.1	0.5	1.1	0.2	4.7
RA	LIVE	CUT	2	ALL	8.8	40	47	154	154	0.0	5.1	2.2	0.7	11.3
SS	LIVE	CUT	2	ALL	14.6	60	75	730	730	0.0	6.5	7.6	2.0	53.3
WH	LIVE	CUT	58	ALL	17.1	75	93	27,004	26,639	1.4	136.3	217.3	52.5	1,944.7
ALL	LIVE	CUT	63	ALL	16.8	73	91	27,980	27,588	1.4	148.4	228.1	55.5	2,013.9
ALL	ALL	ALL	63	ALL	16.8	73	91	27,980	27,588	1.4	148.4	228.1	55.5	2,013.9

Cruise Unit Report NEW FOX U11

Unit Sale Notice Volume (MBF): NEW FOX U11

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
WH	14.2	6.0		834	129	533	150	22
DF	17.0	6.0		470	144	253	58	16
SS	16.7			95	41	38	16	
RA	12.9			10			10	
ALL	15.3	6.0		1,409	314	823	233	38

Unit Cruise Design: NEW FOX U11

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	51.0	51.6	26	13	0

Unit Cruise Summary: NEW FOX U11

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	35	95	3.7	1
DF	32	51	2.0	1
SS	6	11	0.4	0
RA	2	2	0.1	0
ALL	75	159	6.1	2

Unit Cruise Statistics: NEW FOX U11

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	146.2	59.9	11.8	111.9	24.1	4.1	16,350	64.6	12.4
DF	78.5	85.9	16.8	117.5	10.9	1.9	9,218	86.6	17.0
SS	16.9	213.2	41.8	110.3	23.5	9.6	1,867	214.5	42.9
RA	3.1	509.9	100.0	61.1	14.6	10.3	188	510.1	100.5
ALL	244.6	27.1	5.3	112.9	20.4	2.4	27,622	33.9	5.8

Unit Summary: NEW FOX U11

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	32	ALL	17.0	79	99	9,555	9,218	3.5	49.8	78.5	19.0	470.1
RA	LIVE	CUT	2	ALL	12.9	52	64	188	188	0.0	3.4	3.1	0.9	9.6
SS	LIVE	CUT	6	ALL	16.7	66	83	1,893	1,867	1.4	11.1	16.9	4.1	95.2
WH	LIVE	CUT	35	ALL	14.2	64	79	16,599	16,350	1.5	132.9	146.2	38.8	833.8
ALL	LIVE	CUT	75	ALL	15.1	67	84	28,235	27,622	2.2	197.2	244.6	62.8	1,408.7
ALL	ALL	ALL	75	ALL	15.1	67	84	28,235	27,622	2.2	197.2	244.6	62.8	1,408.7

Cruise Unit Report NEW FOX U12

Unit Sale Notice Volume (MBF): NEW FOX U12

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	18.8			290	136	125	29
WH	19.1			104	55	38	11
RA	12.1			17			17
ALL	17.3			412	192	163	57

Unit Cruise Design: NEW FOX U12

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	17.0	17.6	9	5	0

Unit Cruise Summary: NEW FOX U12

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	9	25	2.8	0
WH	6	9	1.0	0
RA	3	3	0.3	0
ALL	18	37	4.1	0

Unit Cruise Statistics: NEW FOX U12

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	149.6	63.8	21.3	114.1	6.9	2.3	17,075	64.1	21.4
WH	52.8	115.6	38.5	116.1	3.8	1.5	6,136	115.6	38.6
RA	13.3	300.0	100.0	75.6	16.2	9.3	1,008	300.4	100.4
ALL	215.8	33.5	11.2	112.2	14.9	3.5	24,218	36.7	11.7

Unit Summary: NEW FOX U12

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	18.8	76	96	17,512	17,075	2.5	77.6	149.6	34.5	290.3
RA	LIVE	CUT	3	ALL	12.1	49	58	1,008	1,008	0.0	16.7	13.3	3.8	17.1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	6	ALL	19.1	76	94	6,321	6,136	2.9	26.6	52.8	12.1	104.3
ALL	LIVE	CUT	18	ALL	18.1	72	90	24,842	24,218	2.5	120.9	215.8	50.4	411.7
ALL	ALL	ALL	18	ALL	18.1	72	90	24,842	24,218	2.5	120.9	215.8	50.4	411.7

Cruise Unit Report NEW FOX U13

Unit Sale Notice Volume (MBF): NEW FOX U13

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	19.5			124	70	45	9
WH	18.7			50	21	24	6
ALL	19.3			174	90	69	15

Unit Cruise Design: NEW FOX U13

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	8.0	9.2	4	4	0

Unit Cruise Summary: NEW FOX U13

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	10	10	2.5	0
WH	4	4	1.0	0
ALL	14	14	3.5	0

Unit Cruise Statistics: NEW FOX U13

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	136.1	51.6	25.8	113.9	6.4	2.0	15,502	52.0	25.9
WH	54.4	115.5	57.7	115.5	4.4	2.2	6,287	115.6	57.8
ALL	190.5	16.5	8.2	114.4	5.7	1.5	21,789	17.5	8.4

Unit Summary: NEW FOX U13

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	10	ALL	19.5	77	97	16,111	15,502	3.8	65.6	136.1	30.8	124.0
WH	LIVE	CUT	4	ALL	18.7	74	92	6,426	6,287	2.2	28.5	54.4	12.6	50.3
ALL	LIVE	CUT	14	ALL	19.3	76	96	22,537	21,789	3.3	94.1	190.5	43.4	174.3
ALL	ALL	ALL	14	ALL	19.3	76	96	22,537	21,789	3.3	94.1	190.5	43.4	174.3

Cruise Unit Report NEW FOX U14

Unit Sale Notice Volume (MBF): NEW FOX U14

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	18.7			50	21	24	6
DF	19.2			40	22	14	5
ALL	18.9			90	42	37	11

Unit Cruise Design: NEW FOX U14

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	4.0	4.0	2	2	0

Unit Cruise Summary: NEW FOX U14

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	4	4	2.0	0
DF	3	3	1.5	0
ALL	7	7	3.5	0

Unit Cruise Statistics: NEW FOX U14

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	108.9	0.0	0.0	115.5	4.4	2.2	12,574	4.4	2.2
DF	81.7	47.1	33.3	122.9	1.9	1.1	10,033	47.2	33.4
ALL	190.5	20.2	14.3	118.7	4.6	1.7	22,608	20.7	14.4

Unit Summary: NEW FOX U14

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	3	ALL	19.2	79	99	10,033	10,033	0.0	40.6	81.7	18.6	40.1
WH	LIVE	CUT	4	ALL	18.7	74	92	12,851	12,574	2.2	57.1	108.9	25.2	50.3
ALL	LIVE	CUT	7	ALL	18.9	76	95	22,885	22,608	1.2	97.7	190.5	43.8	90.4
ALL	ALL	ALL	7	ALL	18.9	76	95	22,885	22,608	1.2	97.7	190.5	43.8	90.4

Cruise Unit Report NEW FOX U15

Unit Sale Notice Volume (MBF): NEW FOX U15

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	16.6			827	333	404	90
WH	17.2			316	134	152	30
RA	10.9			42			42
ALL	15.5			1,186	467	556	162

Unit Cruise Design: NEW FOX U15

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	47.0	50.0	24	12	0

Unit Cruise Summary: NEW FOX U15

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	28	74	3.1	0
WH	12	27	1.1	0
RA	8	8	0.3	0
ALL	48	109	4.5	0

Unit Cruise Statistics: NEW FOX U15

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	167.3	65.5	13.4	105.2	14.2	2.7	17,602	67.0	13.6
WH	60.6	130.7	26.7	110.9	14.3	4.1	6,725	131.5	27.0
RA	13.3	350.2	71.5	67.7	15.0	5.3	903	350.5	71.7
ALL	241.2	34.8	7.1	104.6	19.7	2.8	25,229	40.0	7.7

Unit Summary: NEW FOX U15

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	28	ALL	16.6	69	86	18,474	17,602	4.7	111.3	167.3	41.1	827.3
RA	LIVE	CUT	8	ALL	10.9	43	51	903	903	0.0	20.6	13.3	4.0	42.5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	12	ALL	17.2	71	88	6,938	6,725	3.1	37.6	60.6	14.6	316.1
ALL	LIVE	CUT	48	ALL	16.2	66	82	26,316	25,229	4.1	169.5	241.2	59.7	1,185.8
ALL	ALL	ALL	48	ALL	16.2	66	82	26,316	25,229	4.1	169.5	241.2	59.7	1,185.8

Cruise Unit Report NEW FOX U16

Unit Sale Notice Volume (MBF): NEW FOX U16

Sp	DBH	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
DF	11.1			40	29	10
WH	14.0			11	9	2
ALL	11.5			51	38	12

Unit Cruise Design: NEW FOX U16

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	2.0	2.2	1	1	0

Unit Cruise Summary: NEW FOX U16

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	4	4	4.0	0
WH	1	1	1.0	0
ALL	5	5	5.0	0

Unit Cruise Statistics: NEW FOX U16

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	217.8	0.0	0.0	90.9	11.6	5.8	19,802	11.6	5.8
WH	54.4	0.0	0.0	101.0	0.0	0.0	5,500	0.0	0.0
ALL	272.2	0.0	0.0	93.0	11.0	4.9	25,302	11.0	4.9

Unit Summary: NEW FOX U16

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	4	ALL	11.1	58	71	19,802	19,802	0.0	324.1	217.8	65.4	39.6
WH	LIVE	CUT	1	ALL	14.0	65	80	5,500	5,500	0.0	50.9	54.4	14.5	11.0
ALL	LIVE	CUT	5	ALL	11.5	59	72	25,302	25,302	0.0	375.0	272.2	79.9	50.6
ALL	ALL	ALL	5	ALL	11.5	59	72	25,302	25,302	0.0	375.0	272.2	79.9	50.6



**Forest Practices Application/Notification
Notice of Decision**

FPA/N No: 2618504

Effective Date: 10/11/2024

Expiration Date: 10/11/2027

Shut Down Zone: 650

EARR Tax Credit: Eligible Non-eligible

Reference: Department of Natural Resources
New Fox

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

All work below the ordinary high-water line shall only occur between July 1 and September 30.

Issued By: Ted Allison

Region: Olympic

Title: Forest Practices District Manager

Date: 10/11/2024

Copies to: Landowner, Timber Owner and Operator

Issued in person: LO TO OP By: Krista Pagel *Krista Pagel* Date: 10/11/2024

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](#). 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 Olympic 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 & Mailing Address</u> 411 Tillicum Lane Forks, WA 98331

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

Other Applicable Laws

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

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

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

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

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

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

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

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

DNR Declaration of Mailing

I, Choose an item., caused the Notice of Decision for FPA/N No. Click or tap here to enter text. to be placed in the United States mail at Forks, WA, postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

Click or tap to enter
a date.

(Date)

Forks, Washington

(City & State where signed)

(Signature)

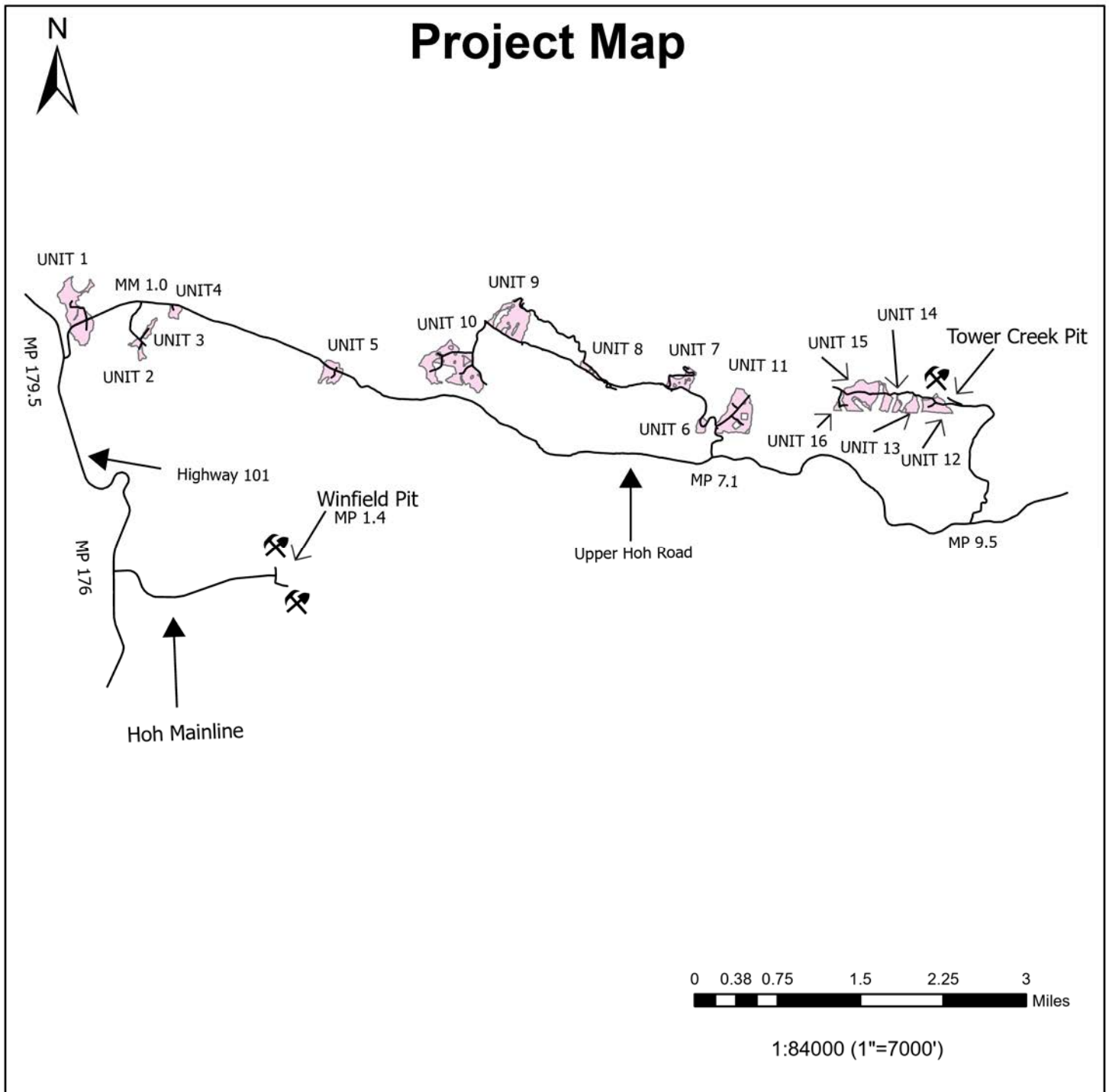
STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
NEW FOX TIMBER SALE ROAD PLAN
JEFFERSON COUNTY
COAST DISTRICT

AGREEMENT NO.: 30-107171

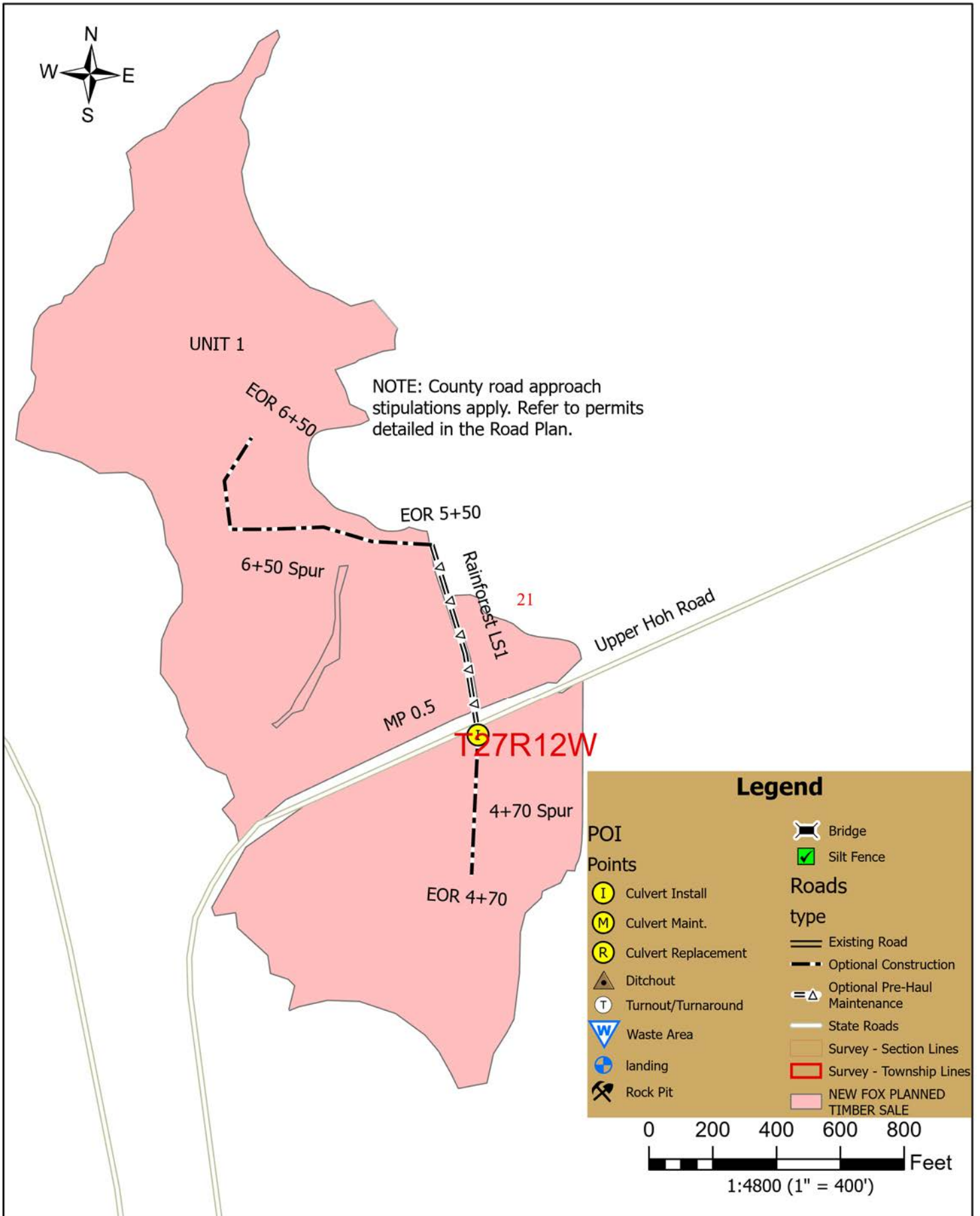
DISTRICT ENGINEER: BILL MEHL

DATE: 31 JULY 2024

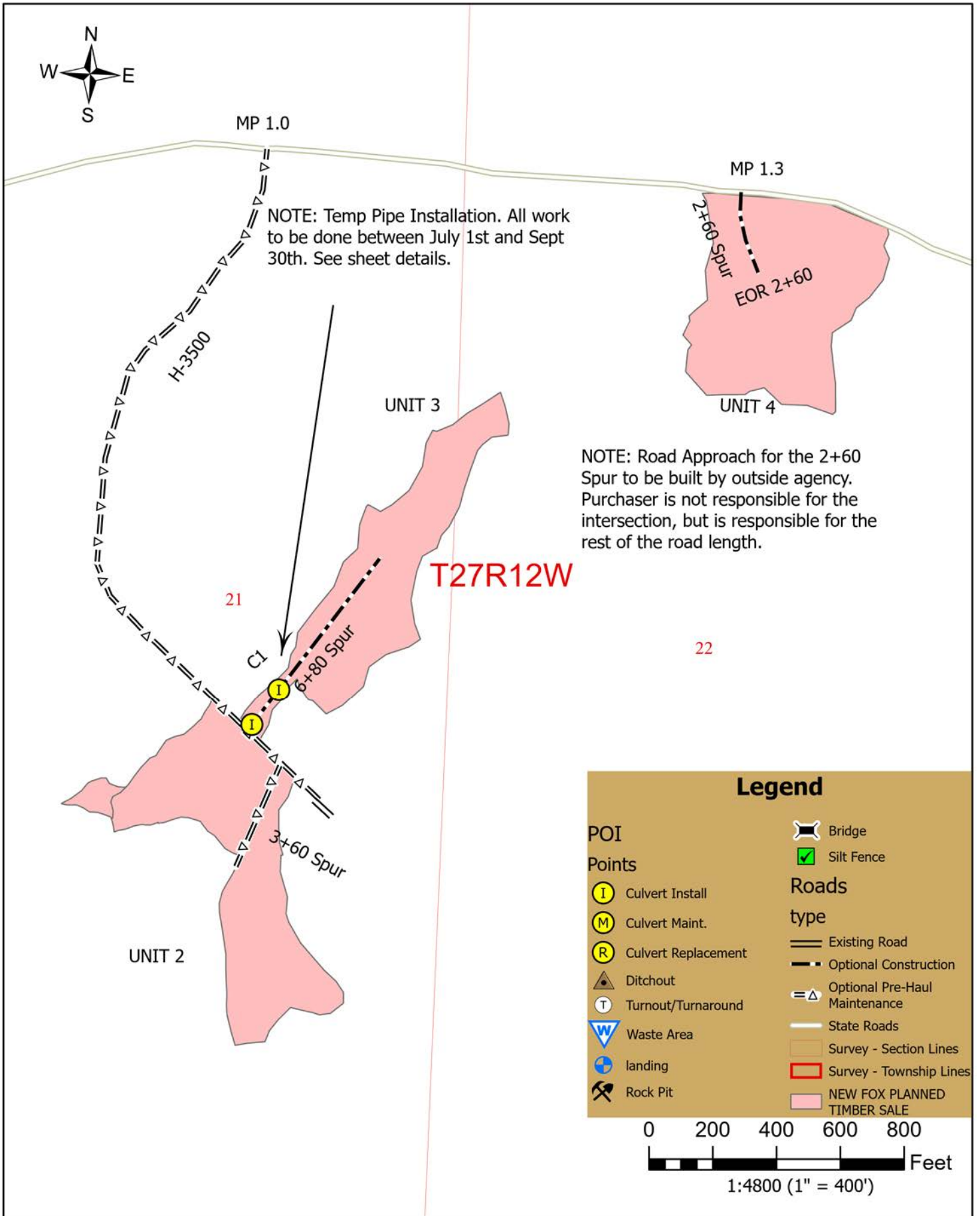
DRAWN AND COMPILED BY: KYLE KNIGHTEN



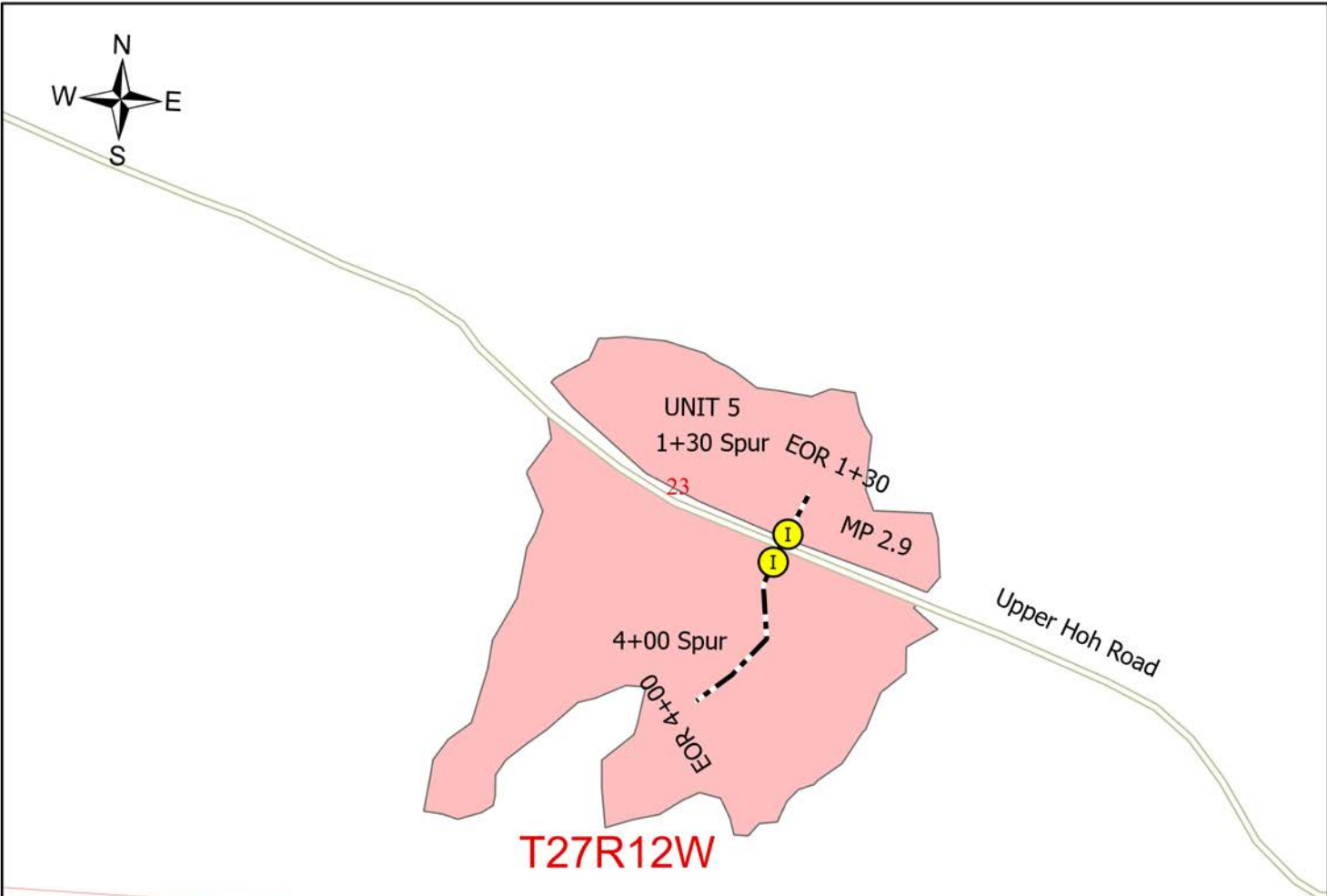
PRE-HAUL MAINTENANCE



PRE-HAUL MAINTENANCE



PRE-HAUL MAINTENANCE



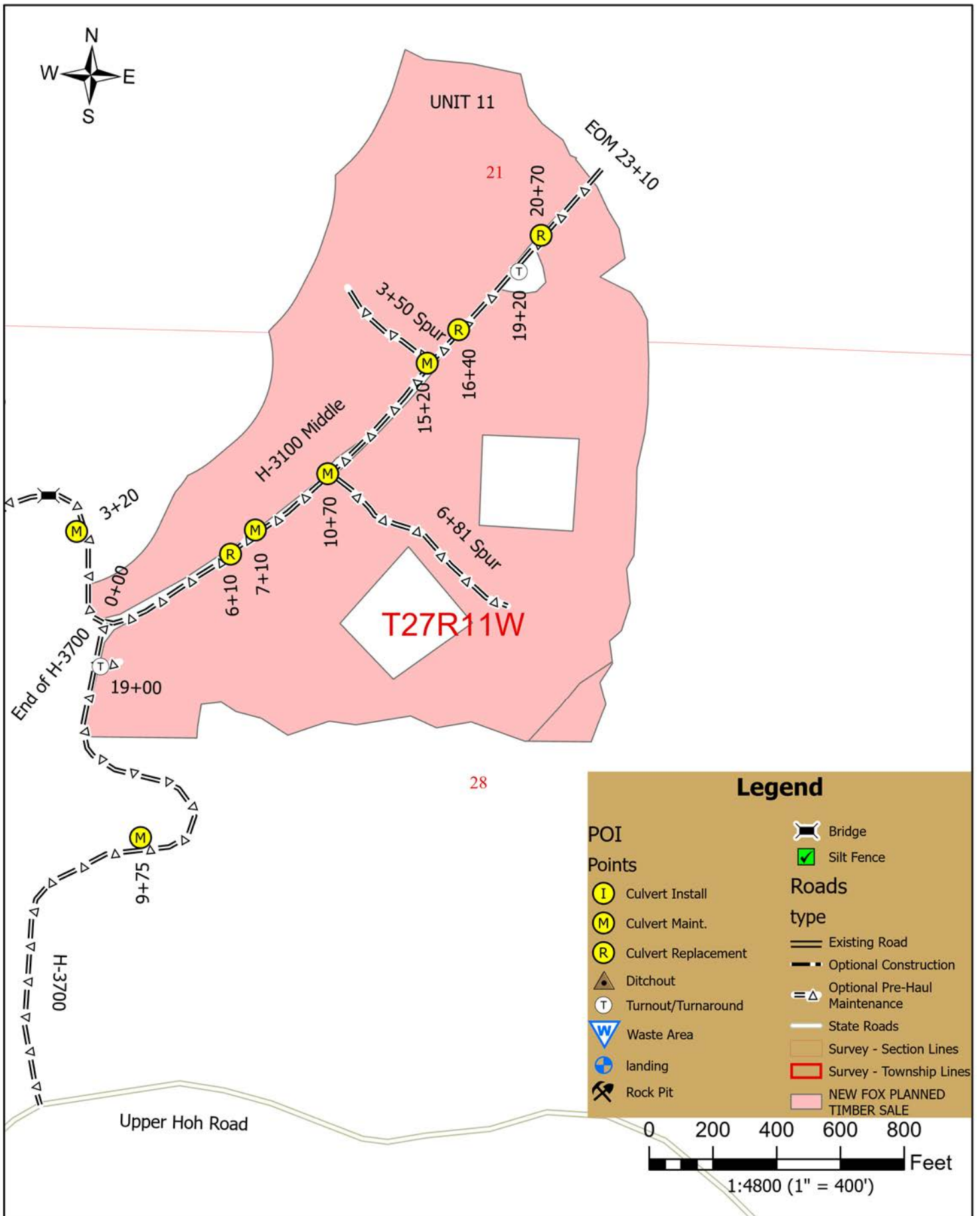
NOTE: County road approach stipulations apply. Refer to permits detailed in the Road Plan.

Legend

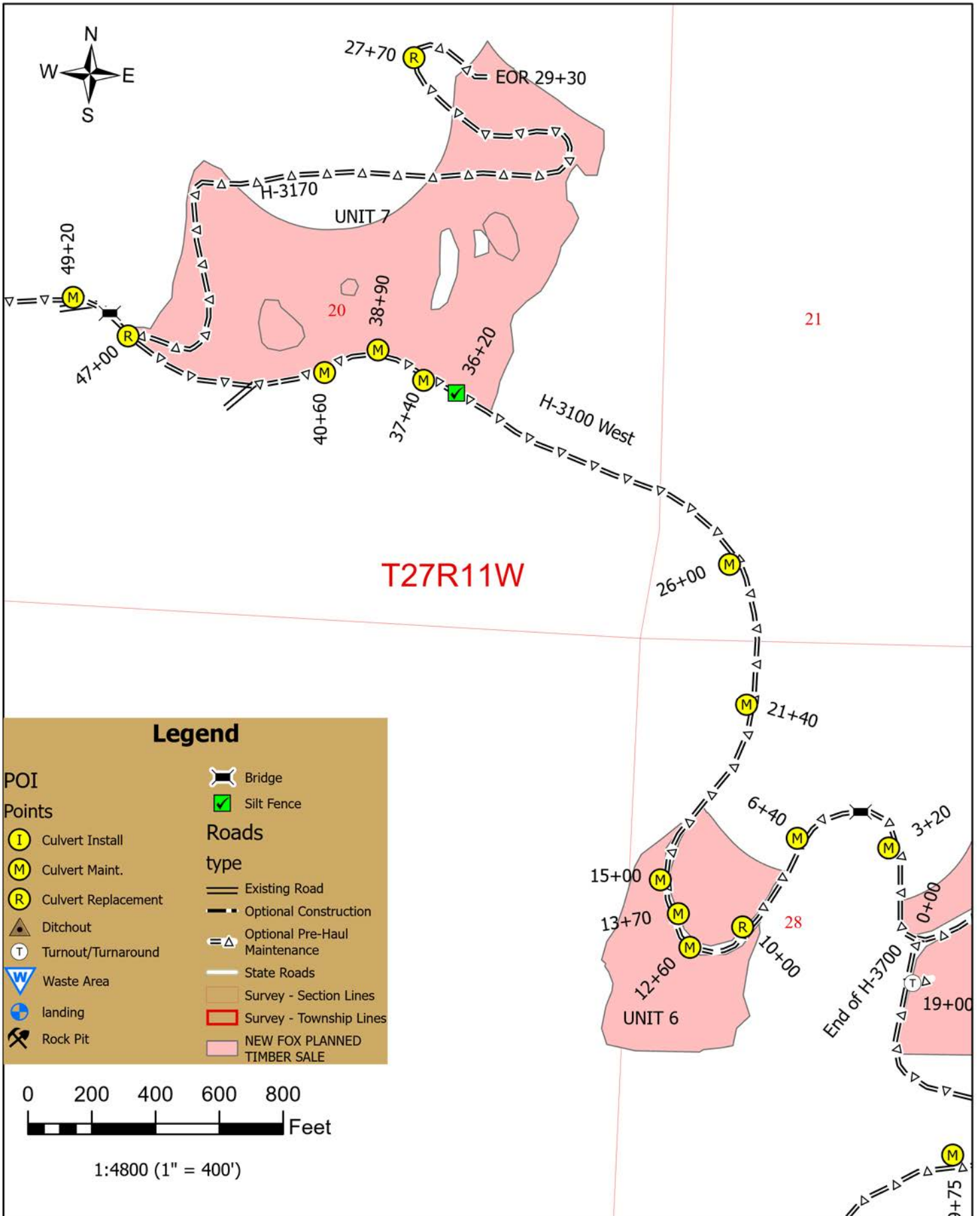
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Points	Silt Fence
Culvert Install	Roads
Culvert Maint.	type
Culvert Replacement	Existing Road
Ditchout	Optional Construction
Turnout/Turnaround	Optional Pre-Haul Maintenance
Waste Area	State Roads
landing	Survey - Section Lines
Rock Pit	Survey - Township Lines
	NEW FOX PLANNED TIMBER SALE

0 200 400 600 800 Feet
1:4800 (1" = 400')

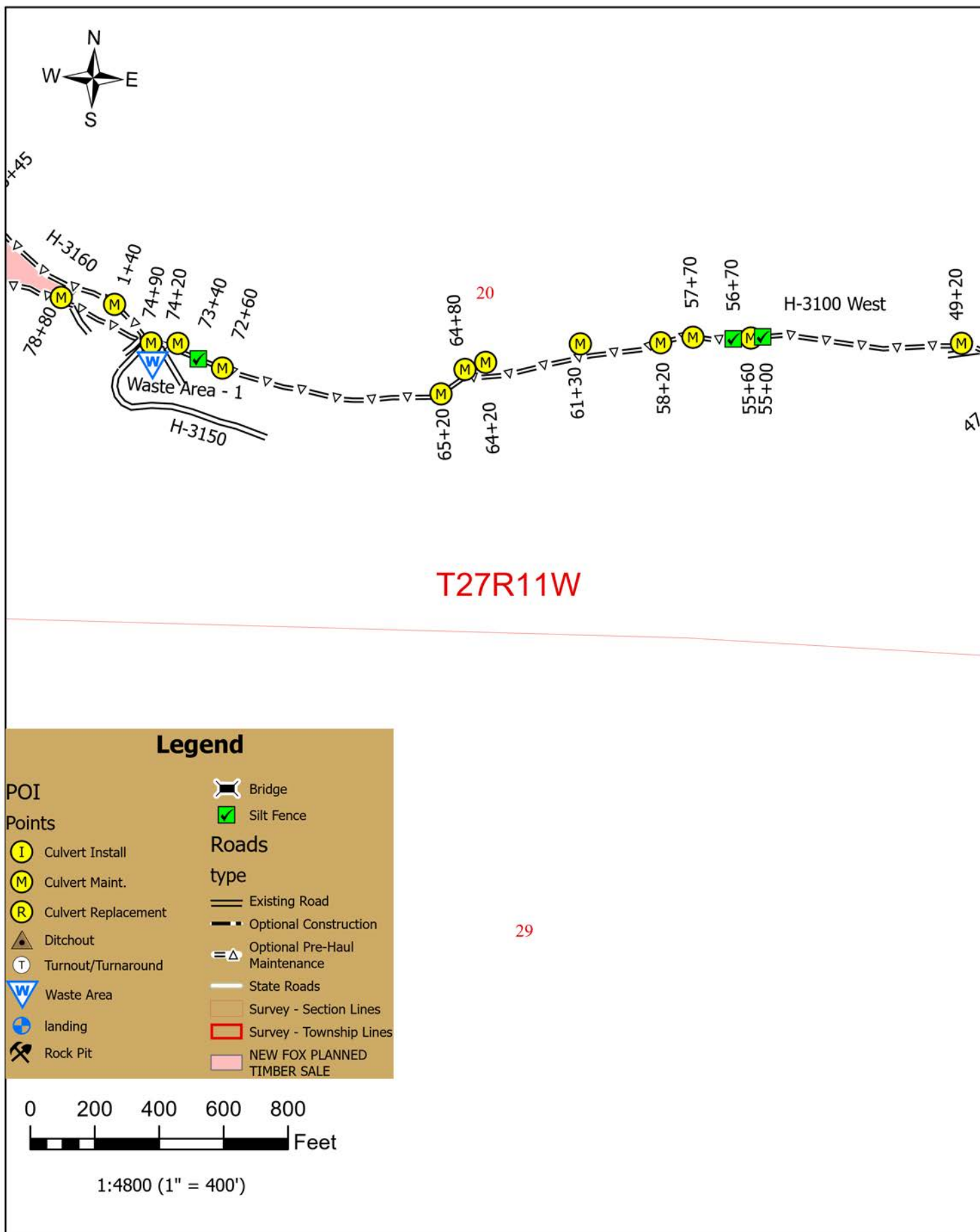
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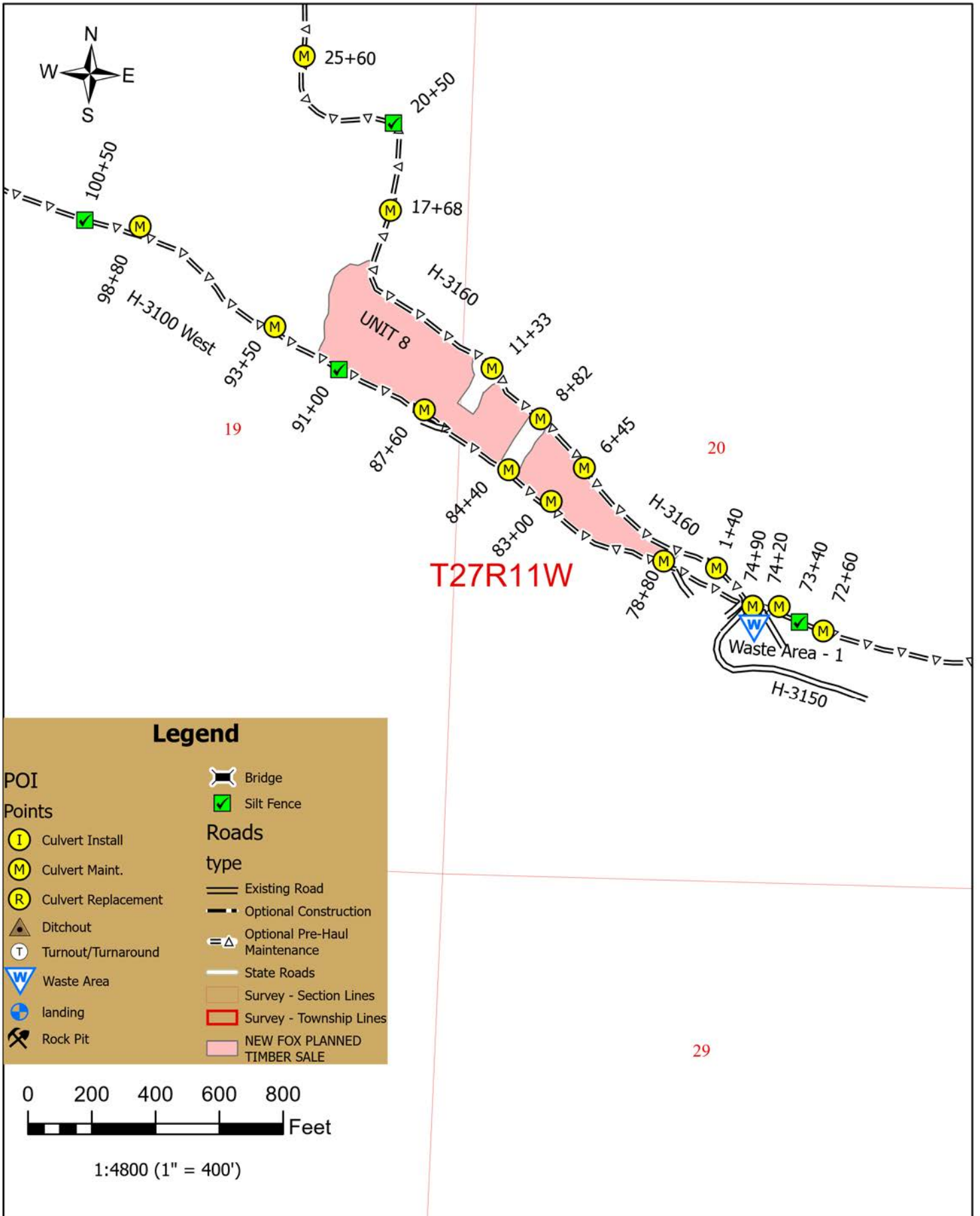
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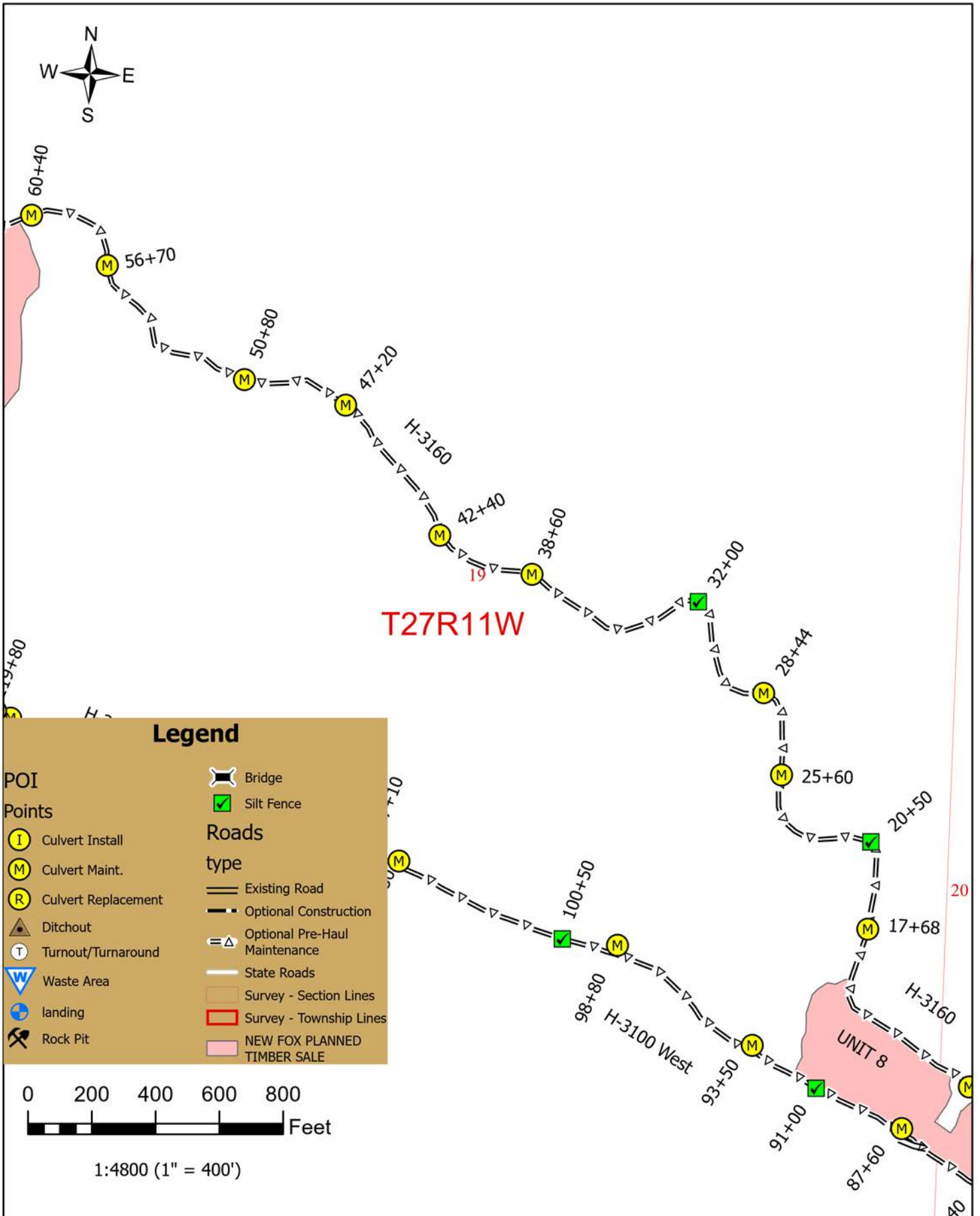
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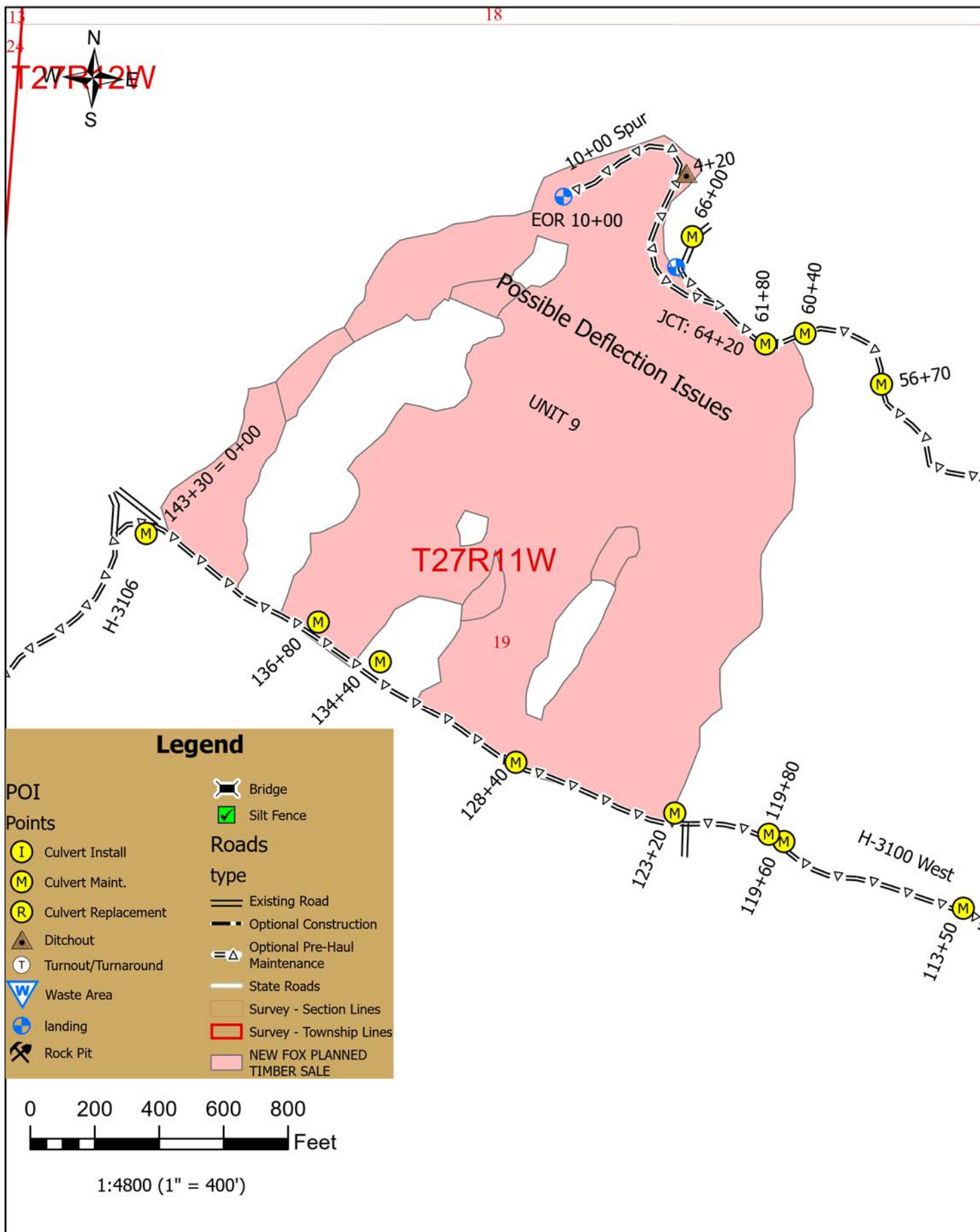
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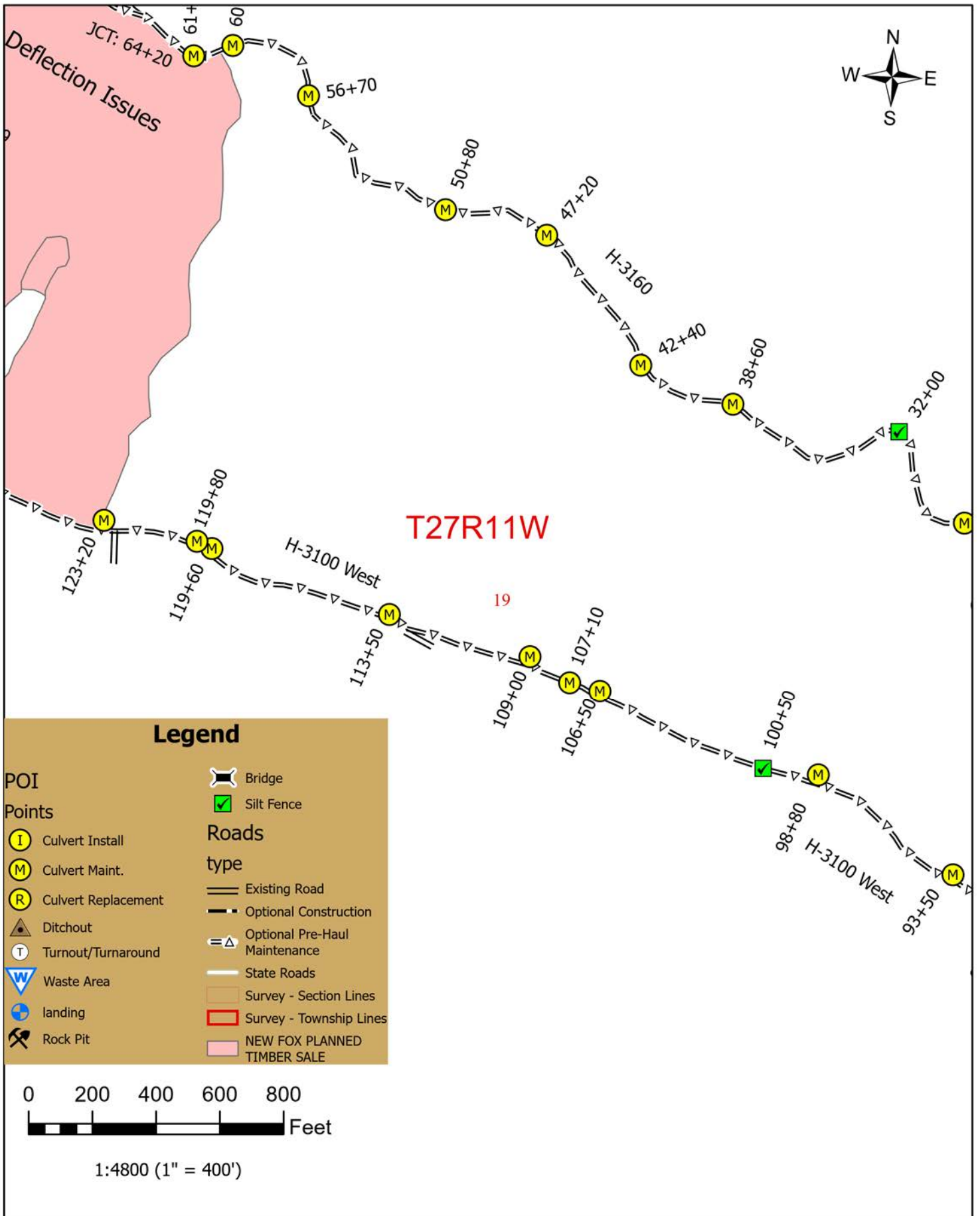
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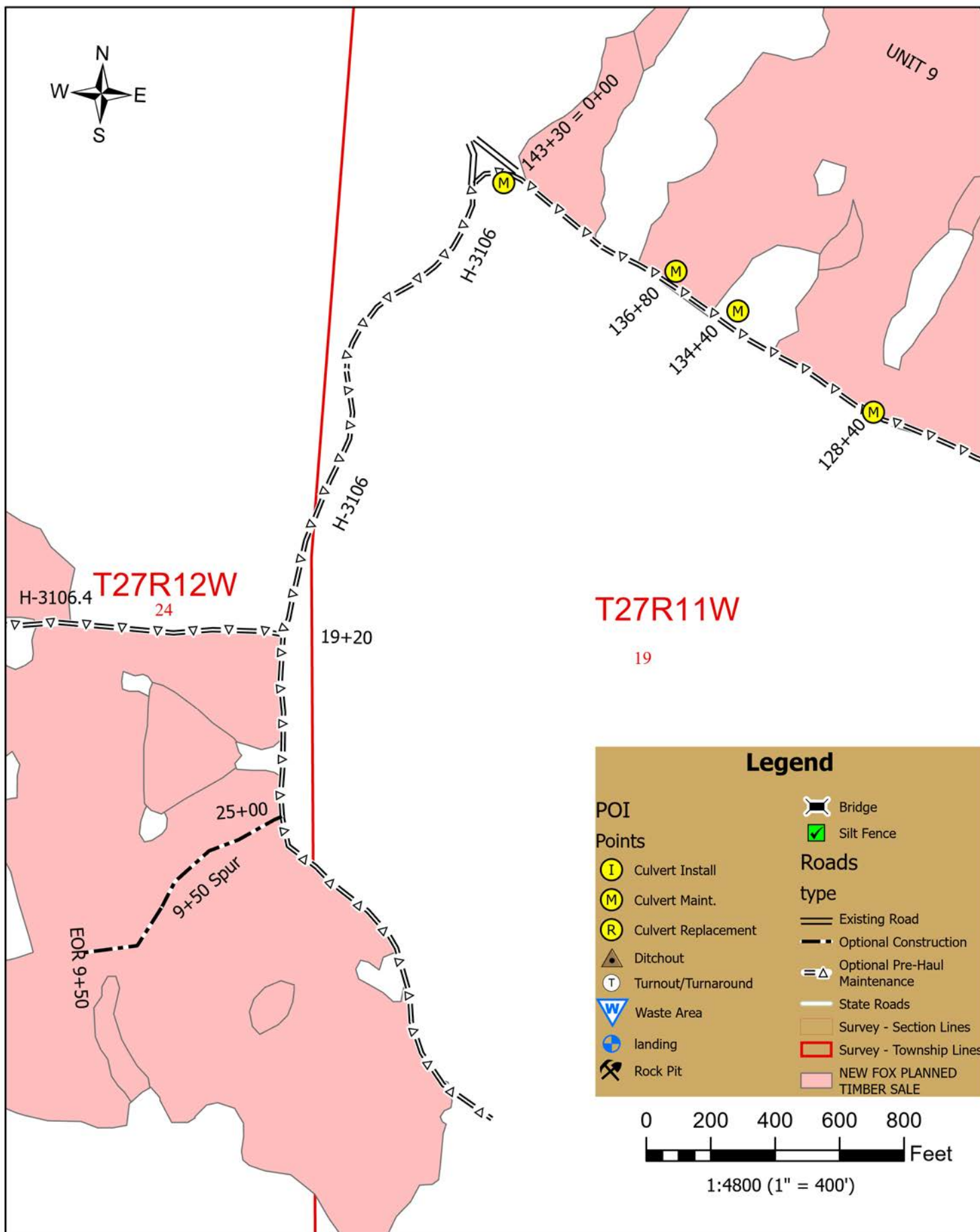
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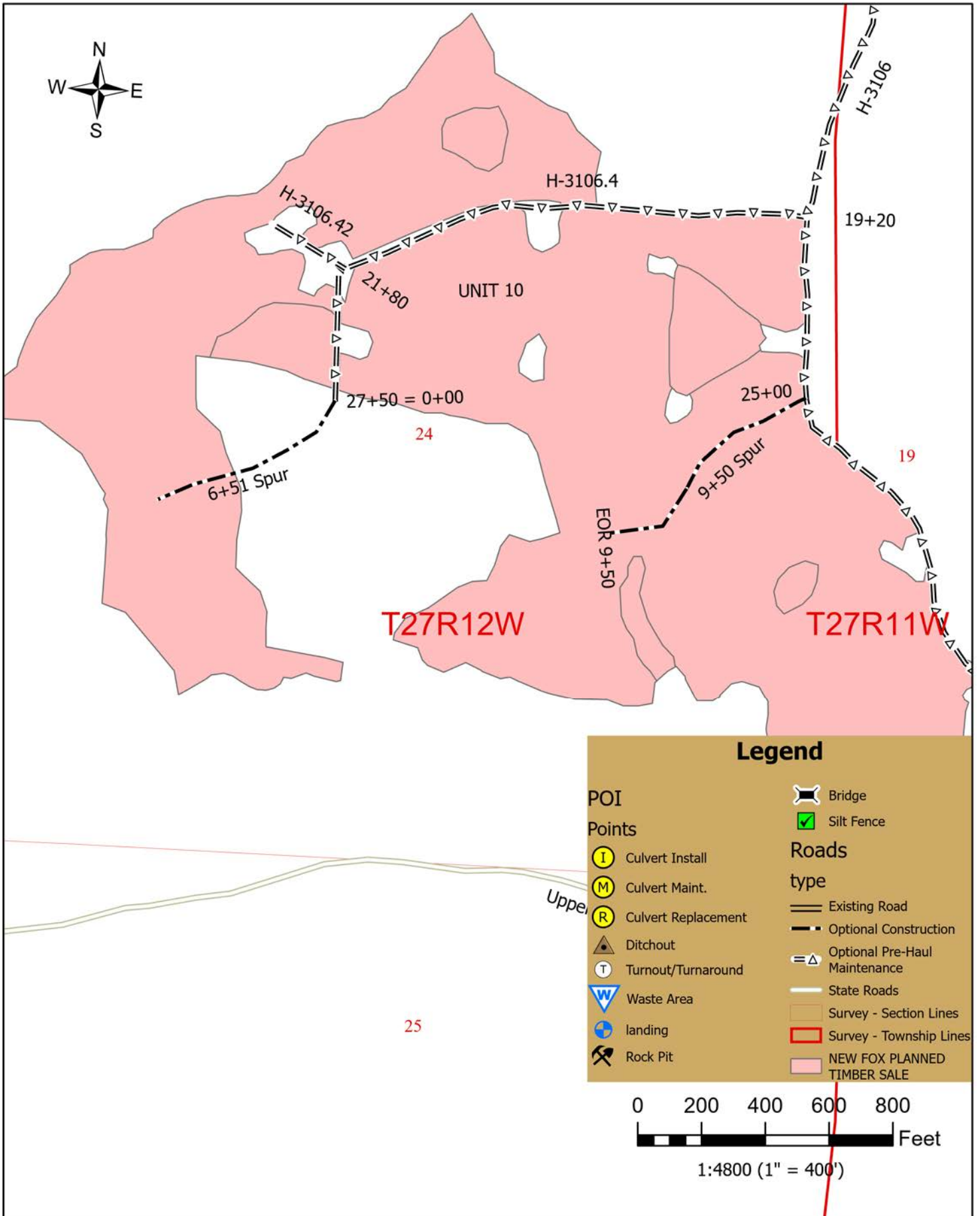
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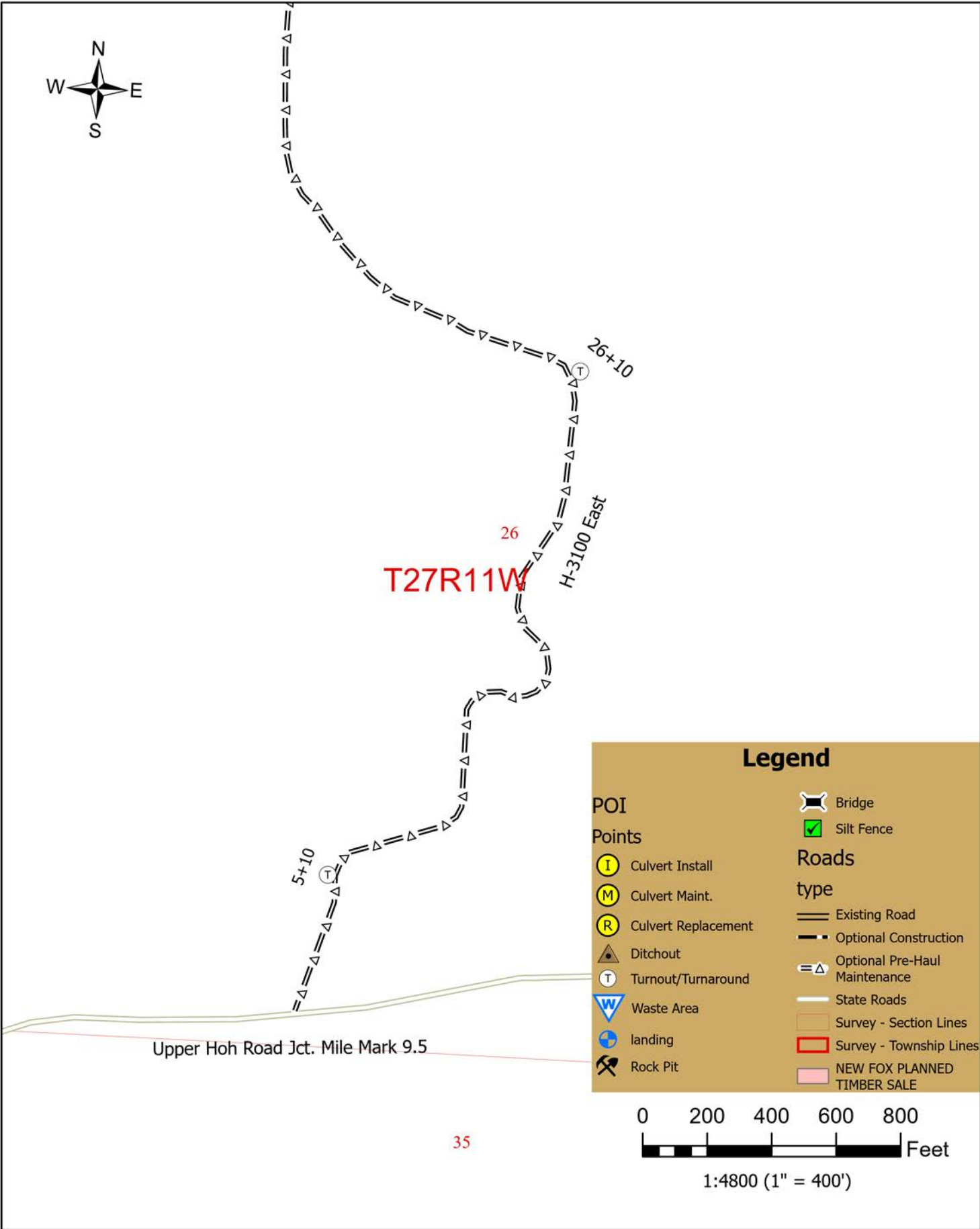
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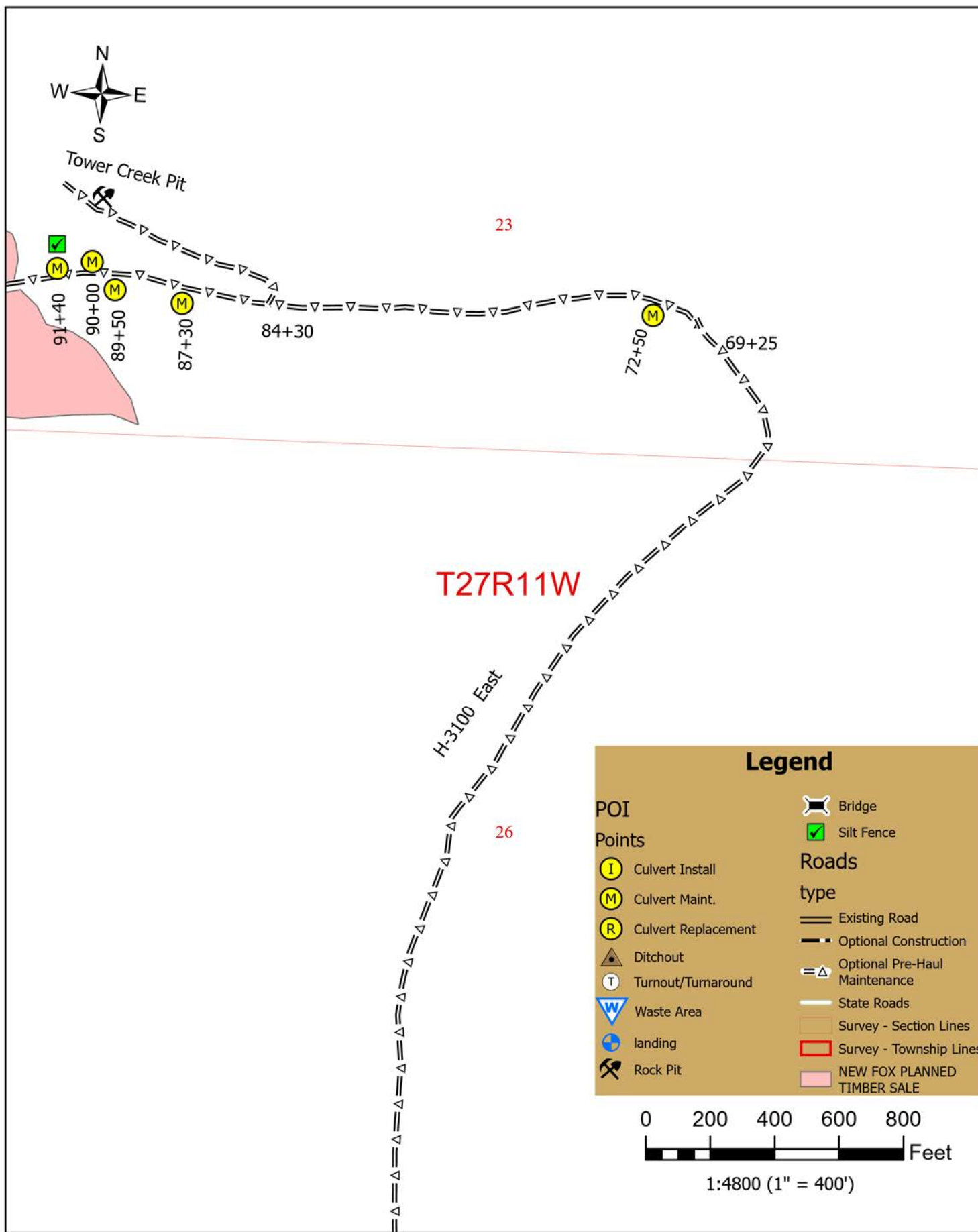
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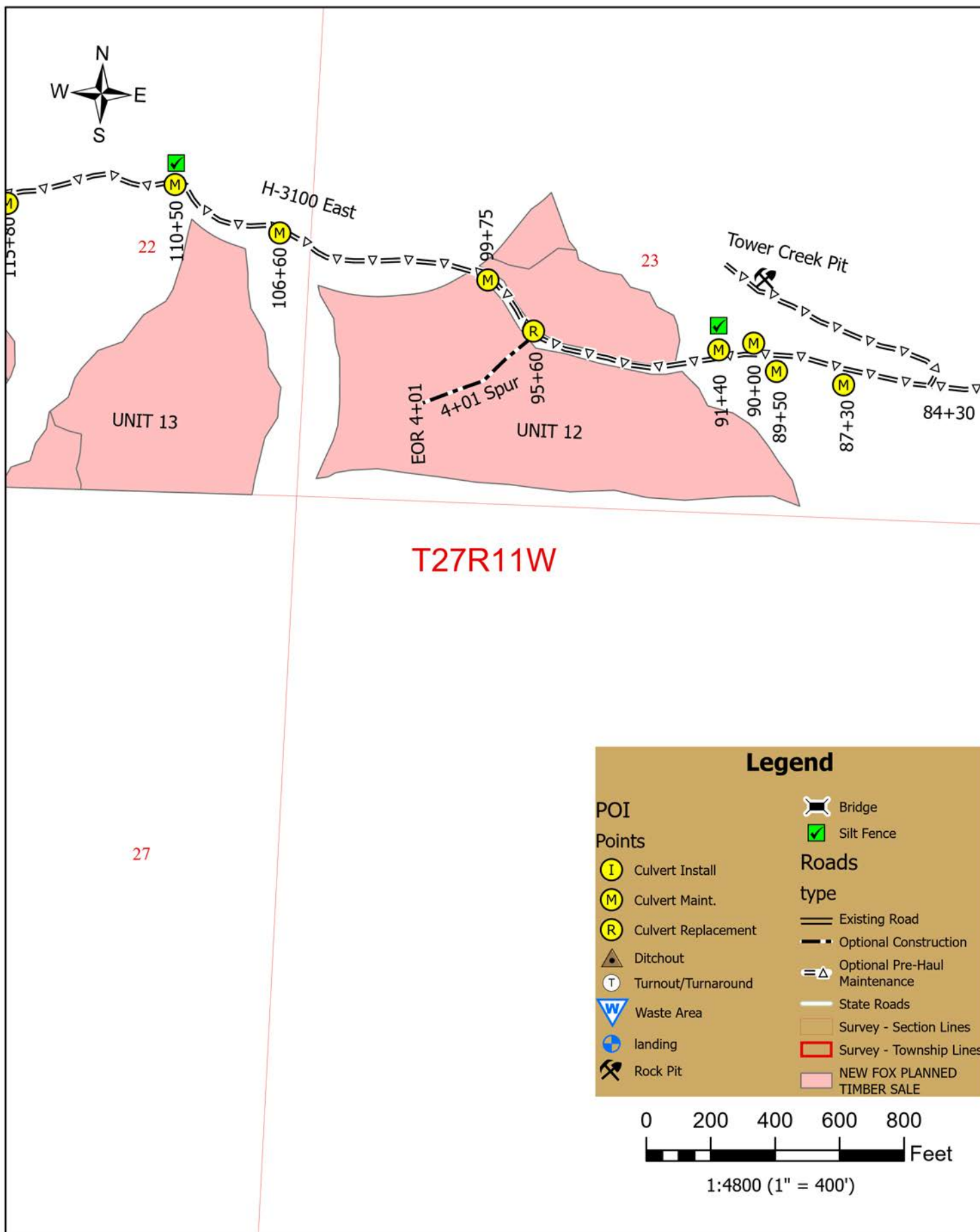
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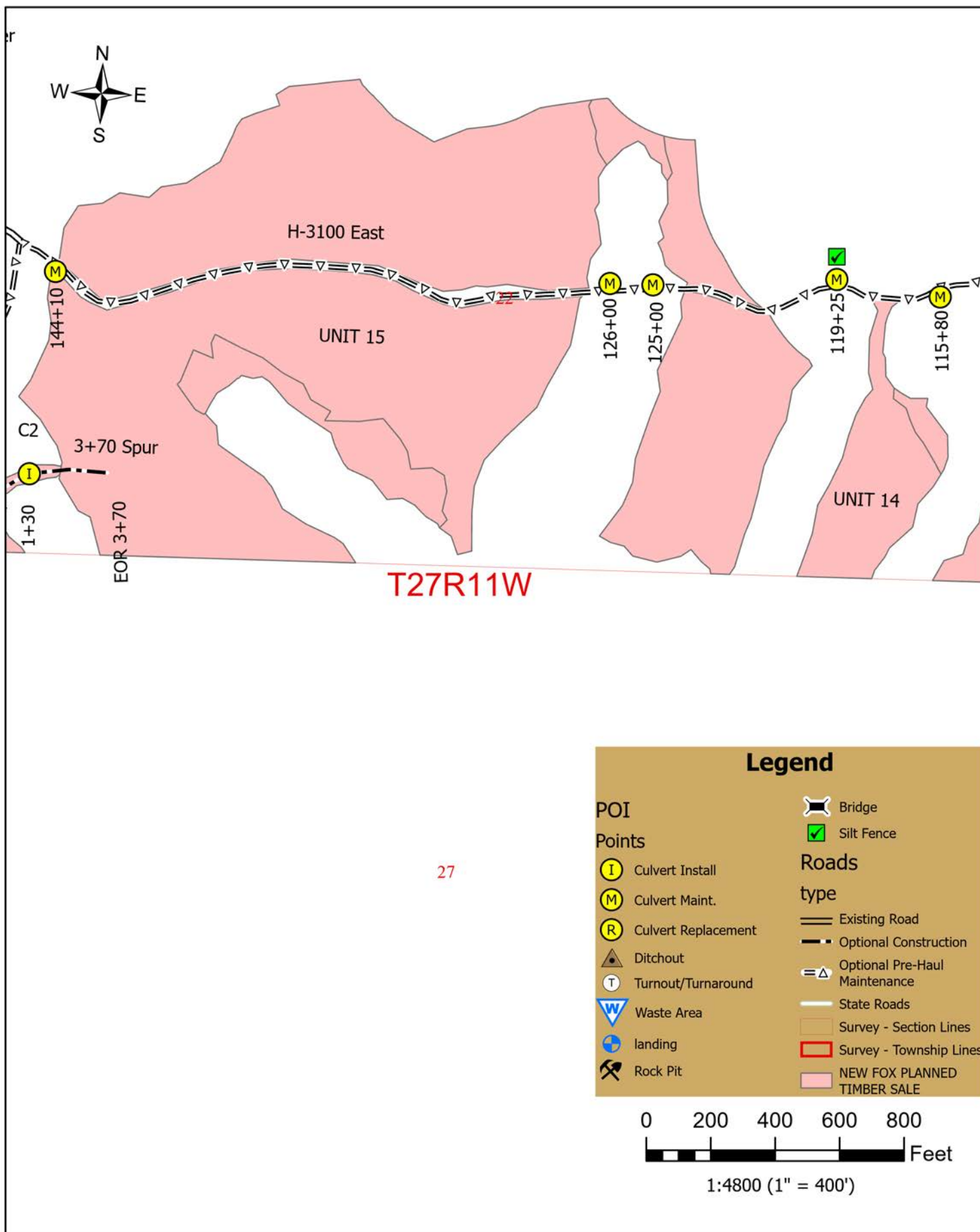
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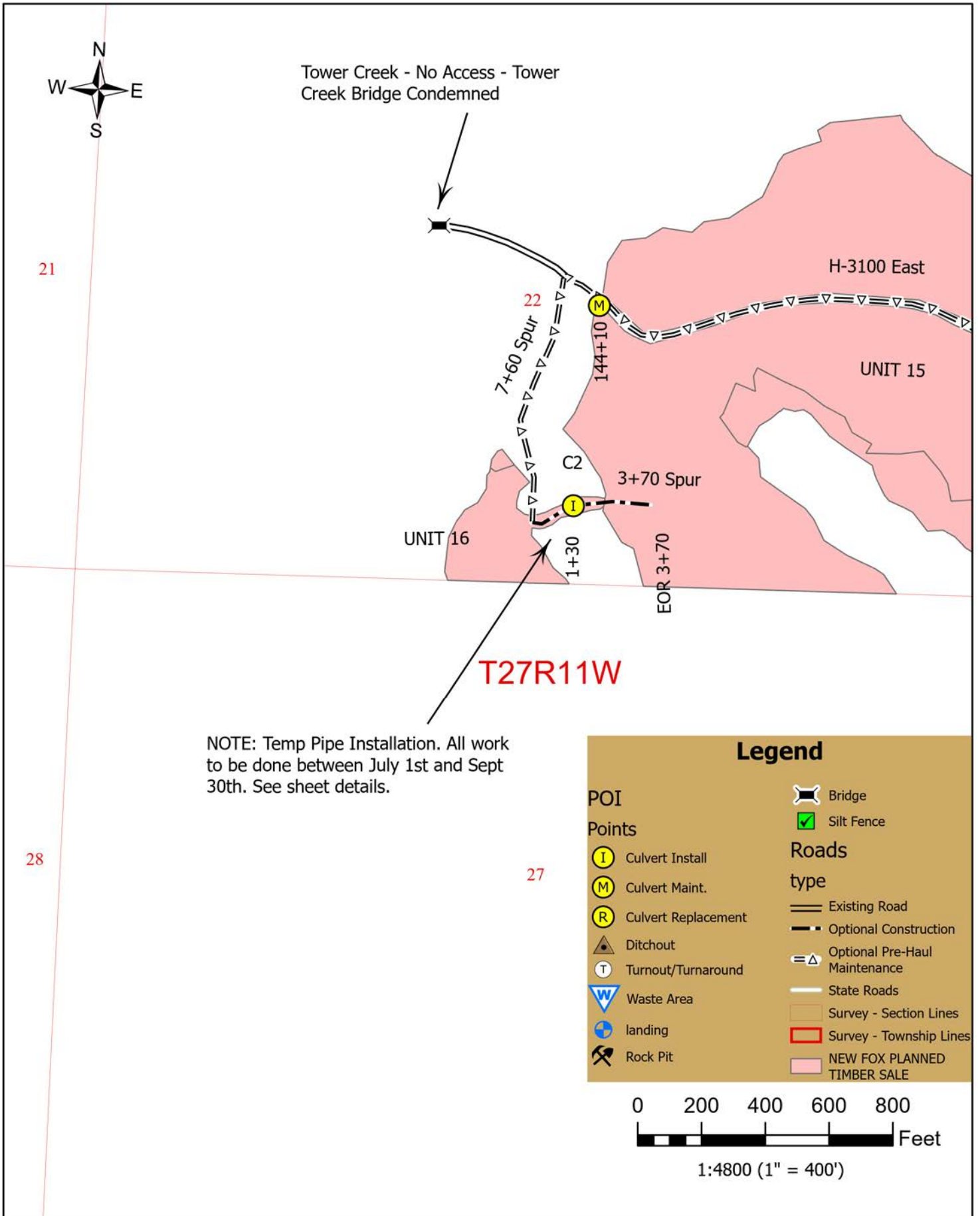
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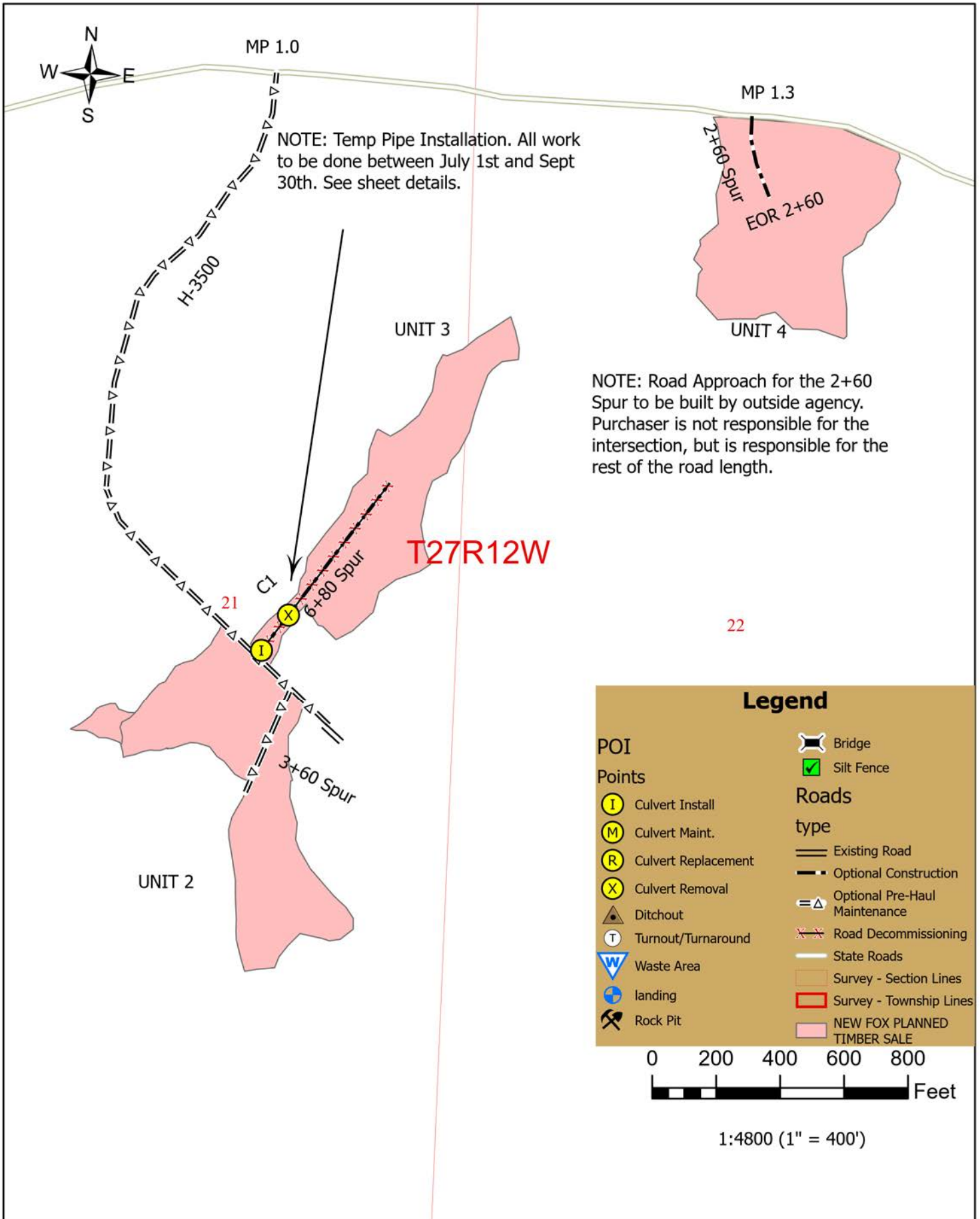
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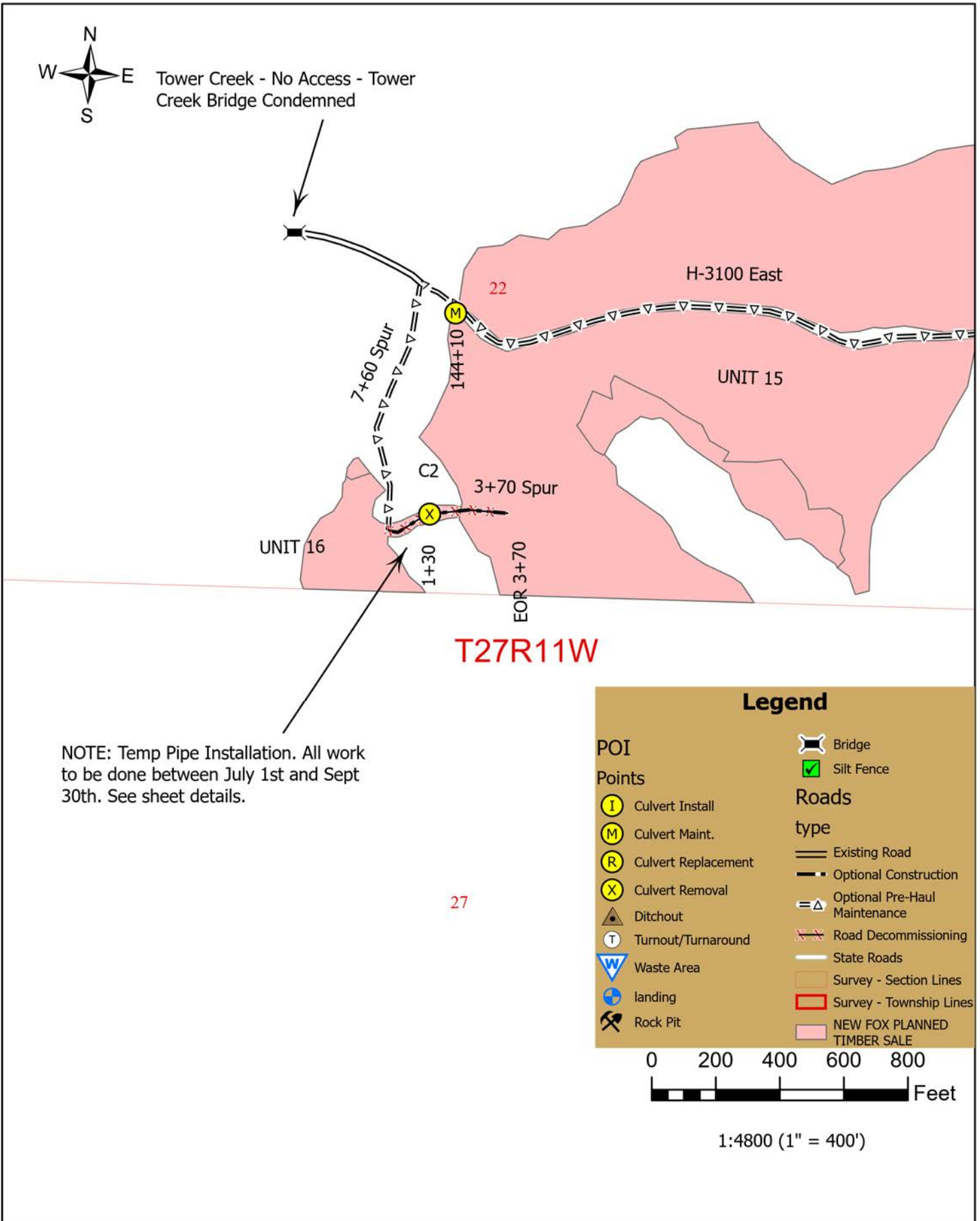
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6+80 Spur Decommissioning Map



3+70 Spur Decommissioning Map



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.

0-3 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>
Rainforest LS1	5.5	Optional Pre-Haul Maintenance
6+50 Spur	6.5	Optional Construction
4+70 Spur	4.7	Optional Construction
H-3500	27.4	Optional Pre-Haul Maintenance
3+60 Spur	3.6	Optional Pre-Haul Maintenance
6+80 Spur	6.8	Optional Construction
2+60 Spur	2.6	Optional Construction
1+30 Spur	1.3	Optional Construction
4+00 Spur	4	Optional Construction
H-3700	20.4	Optional Pre-Haul Maintenance
H-3100 Middle	23.6	Optional Pre-Haul Maintenance
H-3100 East	144.9	Optional Pre-Haul Maintenance
H-3100 West	146.9	Optional Pre-Haul Maintenance
6+81 Spur	6.8	Optional Pre-Haul Maintenance
3+50 Spur	3.5	Optional Pre-Haul Maintenance
H-3170	29.3	Optional Pre-Haul Maintenance
H-3160	66	Optional Pre-Haul Maintenance
10+00 Spur	10	Optional Pre-Haul Maintenance
H-3106	33.4	Optional Pre-Haul Maintenance
H-3106.4	23.4	Optional Pre-Haul Maintenance
6+51 Spur	6.5	Optional Construction
H-3106.42	2.4	Optional Pre-Haul Maintenance
9+50 Spur	9.5	Optional Construction
4+01 Spur	4	Optional Construction
7+60 Spur	7.6	Optional Pre-Haul Maintenance
3+70 Spur	3.7	Optional Construction
Tower Creek Pit Road	7.4	Optional Pre-Haul Maintenance
H-3150	2	Optional Pre-Haul Maintenance

0-4 CONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
6+50 Spur	0+00 – 6+50	See Below
4+70 Spur	0+00 – 4+70	See Below
6+80 Spur	0+00 – 6+80	See Below
2+60 Spur	0+00 – 2+60	See Below
1+30 Spur	0+00 – 1+30	See Below
4+00 Spur	0+00 – 4+00	See Below
6+51 Spur	0+00 – 6+50	See Below
9+50 Spur	0+00 – 9+50	See Below
4+01 Spur	0+00 – 4+00	See Below
3+70 Spur	0+00 – 3+70	See Below
Total:	49.6 STA	

Construction includes, but is not limited to:

Clearing, grubbing, right-of-way debris disposal, excavation and/or embankment to subgrade, end hauling material for construction, compacting road surfaces, constructing ditchlines, constructing ditchouts, constructing turnouts and turnarounds, curve widening, acquisition and installation of drainage structures, application of rock, spreading grass seed and hay.

0-6 OPTIONAL PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
Rainforest LS1	0+00 – 5+50	Grade and shape road in accordance with Clause 2-5. Brush road in accordance with Clause 3-1 and Brushing Detail. Remove all vegetative material with a minimum loss of rock in accordance with Clauses 2-9 and 3-23 Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
H-3500	0+00 – 27+40	Grade and shape road in accordance with Clause 2-5. Compact Rock in accordance with Compaction List.
3+60 Spur	0+00 – 3+60	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
H-3700	0+00 – 20+40	Grade and shape road in accordance with Clause 2-5. Install/Replace/Maintain culverts in accordance with Culvert List.

H-3100 Middle	0+00 – 23+60	Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List. Install/Replace/Maintain culverts in accordance with Culvert List.
6+81 Spur	0+00 – 6+80	Brush road in accordance with Clause 3-1 and Brushing Detail. Remove all vegetative material with a minimum loss of rock in accordance with Clauses 2-9 and 3-23. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
3+50 Spur	0+00 – 3+50	Brush road in accordance with Clause 3-1 and Brushing Detail. Remove all vegetative material with a minimum loss of rock in accordance with Clauses 2-9 and 3-23. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
H-3100 West	0+00 – 146+90	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Install and maintain sediment control structures in accordance with clause 8-1. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List. Install/Replace/Maintain culverts in accordance with Culvert List.
H-3160	0+00 – 66+00	Grade and shape road in accordance with Clause 2-5. Install and maintain sediment control structures in accordance with clause 8-1. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List. Install/Replace/Maintain culverts in accordance with Culvert List.
10+00 Spur	0+00 – 10+00	Remove all vegetative material with a minimum loss of rock in accordance with Clauses 2-9 and 3-23. Grade and shape road in accordance with Clause 2-5. Install ditch outs in accordance with clause 4-29. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
H-3106	0+00 – 33+40	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Compact Rock in accordance with Compaction List.

H-3106.4	0+00 – 23+40	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
H-3106.42	0+00 – 2+40	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
H-3170	0+00 – 29+30	Remove all vegetative material with a minimum loss of rock in accordance with Clauses 2-9 and 3-23. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List. Install/Replace/Maintain culverts in accordance with Culvert List.
H-3100 East	0+00 – 144+90	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Install and maintain sediment control structures in accordance with clause 8-1. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List. Install/Replace/Maintain culverts in accordance with Culvert List.
7+60 Spur	0+00 -7+60	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
Tower Creek Pit Road	0+00 - 7+40	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
H-3150	0+00 – 2+00	Brush road in accordance with Clause 3-1 and Brushing Detail. Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Rock List. Compact Rock in accordance with Compaction List.
Total:	564.1 STA	

Maintenance includes, but is not limited to:

Brushing right-of-way, right-of-way debris disposal, cleaning ditches, constructing ditches, installing additional culverts, widening road segments, constructing headwalls, cleaning culvert inlets and outlets, cross drain culvert replacement, installing erosion control materials and sediment removal structures, spot rocking, grading and shaping

existing road surface and turnouts, constructing additional turnouts, compaction of road surface, application of rock, acquisition and application of grass seed and hay.

0-7 POST-HAUL MAINTENANCE

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

0-9 DECOMMISSIONING

This project includes, but is not limited to, decommissioning listed in Clause 9-20 ROAD DECOMMISSIONING.

0-12 DEVELOP ROCK SOURCE

The Purchaser shall develop Winfield Pit to process 10,000 CY of rock. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING. Development of rock must be completed by July 31st, 2025.

0-13 STRUCTURES

The Purchaser shall acquire and install all structures. Requirements for these structures are listed in Section 7 Structures.

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 shall be submitted, in writing, to the Contract Administrator for consideration. The State must approve the submitted plans before road work begins.

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

Unless controlled by construction stakes or design data (plan, profile, and cross-sections), road work shall be performed in accordance with the dimensions shown on the Typical Section Sheet and the specifications within this Road Plan.

1-5 DESIGN DATA

Design data is available upon request at the Department of Natural Resources Olympic Region Office in Forks, WA

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in this Road Plan shall 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.

In case of any ambiguity or dispute over interpreting the Road Plan, the Contract Administrator's or designee's decision will be final.

1-7 TEMPORARY ROAD CLOSURE

The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before the closure of any road. Road work shall not close any road for more than 3 consecutive days. The Purchaser shall also follow all Jefferson County guidelines for lane closures and traffic control.

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

The Purchaser is responsible for the repair or replacement of all materials, roadway infrastructure, and road components damaged during roadwork or operation activities. Repairs and replacements shall be directed by the Contract Administrator. Repairs to structural materials will be made according to the manufacturer's recommendation, and shall not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any 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.

1-11 FPHP REQUIREMENTS

The following work is subject to requirements under a Forest Practice Hydraulics Project Approval issued by the State of Washington.

<u>FPA Crossing Identifier</u>	<u>Road</u>	<u>Stations</u>	<u>Work Type</u>
C1	6+80 Spur	1+80	Temporary Fish Stream Crossing. All work must be completed, including removal, between July 1 st and September 30 th .
C2	3+70 Spur	1+30	Temporary Fish Stream Crossing. All work must be completed, including removal, between July 1 st and September 30 th .

1-12 SURVEY MONUMENTS

At no time during construction, reconstruction, or maintenance shall survey monuments, witness trees, or bearing trees be disturbed or damaged. If damaged or disturbed, Purchaser shall hire a licensed land surveyor to repair, replace, and/or reset them.

1-13 LOG LOADING

At no time shall the loading of logs occur on the Upper Hoh Road. In addition, no debris from harvesting operations shall be allowed on this road.

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

Road work must be in accordance with the State's marked location. All road work is marked as follows:

- Orange ribbon and paint for construction centerlines.
- Construction stakes for everything else.

1-16 CONSTRUCTION STAKES SET BY STATE

Purchaser shall perform work on the following road(s) in accordance with the construction stakes set in the field for grade and alignment.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
6+80 Spur	0+00 - 6+80	Temporary Fish Stream Crossing
3+70 Spur	0+00 – 3+70	Temporary Fish Stream Crossing

1-18 REFERENCE POINT DAMAGE

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

SUBSECTION TIMING

1-20 COMPLETE BY DATE

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

1-21 HAUL APPROVAL

The Purchaser shall not use roads under this Road Plan without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

On all roads, the Purchaser shall notify the Contract Administrator a minimum of 3 calendar days before work begins. DNR Engineer to be on site for county road driveway installations.

1-23 ROAD WORK PHASE APPROVAL

Written approval by Contract Administrator needs to be given at these phases of road work:

- Subgrade approval
- Drainage installation
- Subgrade compaction
- Rock application
- Rock compaction

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

On the following road(s), the specified activities are not permitted during the listed closure period(s) unless authorized in writing by the Contract Administrator.

<u>Road</u>	<u>Stations</u>	<u>Activity</u>	<u>Closure Period</u>
6+80 Spur	0+00 – 6+80	Temp Pipe Install/Harvest/Removal	Oct 1 st – June 30 th
3+70 Spur	0+00 – 3+70	Temp Pipe Install/Harvest/Removal	Oct 1 st – June 30 th
Unit 4	All	Restricted Harvest	Nov 1 st -

The harvest of Unit 4 is to be conducted after necessary construction occurring on the Upper Hoh Road at milepost 1.3. The unit cannot be harvested until November 1st, 2025.

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 Activity Timing Restriction, the Purchaser shall provide a maintenance plan to include further protection of State resources. The Contract Administrator must approve the maintenance plan in writing, and preventative measures shall be put in place, before operation in the closure period. The Purchaser shall be required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 Designated Road Maintainer. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan shall be developed. All parties shall follow this plan.

1-27 TIMING RESTRICTION FOR MARBLED MURRELET

On portions of the below listed Roads; Any road work, right-of-way timber falling and yarding, rock pit operations or operation of heavy equipment performed during the marbled murrelet nesting season (April 1 through September 23) is restricted to two hours after sunrise to two hours before sunset. This restriction does not apply to hauling timber, rock or equipment.

<u>Road</u>	<u>Stations</u>
H-3170	5+70 – 13+90
H-3100 East	99+75 – 121+70

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 shall suspend road work or hauling of right-of-way timber, forest products, or rock under the following conditions:

- 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, the Purchaser will be required to cease operations, or perform corrective maintenance or repairs, subject to specifications within this Road Plan. Before and during any suspension, the Purchaser shall protect the work from damage or deterioration.

1-32 BRIDGE AND 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, as approved in writing by Contract Administrator, shall be used.

If tracked equipment is used on bridge or asphalt surfaces, Purchaser shall immediately cease all road work and hauling operations. Any dirt, rock, or other material tracked or spilled on bridge or asphalt surface(s) shall be removed immediately. Any damage to the surface(s) shall be repaired at the Purchaser’s expense as directed by the Contract Administrator.

1-33 SNOW PLOWING RESTRICTION

On all roads, snow plowing shall be permitted only after the execution of a Snow Plowing Agreement, which is available from the Contact 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.

SUBSECTION OTHER INFRASTRUCTURE

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

At existing road approaches to county roads and state highways, any mud, dirt, rock or other material tracked or spilled on the asphalt surface shall be removed immediately by the Purchaser.

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

The following county roads and state highways are affected by this sale:

<u>Road Name</u>
Upper Hoh Road

Jefferson County Road approach permits acquired by DNR for the 4+70, 1+30, and 4+00 spurs. See attached permit for stipulations and requirements.

1-41 REQUIREMENTS FOR PAVED ROAD APPROACHES

Requirements for the paved road approaches:

Purchaser shall build up approaches to allow a smooth grade transition. The top of the rock road surfacing must be kept level with the surface of the paved roads at all times.

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. The Purchaser shall work in accordance with all applicable laws or rules concerning utilities. The 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>	<u>Utility Contact</u>
4+00 Spur	0+00 – 4+00	Telecommunications	Call 811
4+70 Spur	0+00 – 4+70	Telecommunications	Call 811
2+60 Spur	0+00 – 2+60	Telecommunications	Call 811

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.

C-060 Designated Roads

<u>Road</u>	<u>Stations</u>
H-3100 - East	0+00 – 70+60
H-3700	0+00 – 20+40
Hoh Mainline	0+00 – 87+50
North Winfield Pit	All
South Winfield Pit	All

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>
H-3100	All

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following road(s), a grader shall be used to shape the existing surface.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
Rainforest LS1	0+00 – 5+50	Grade/Shape/Compact
H-3500	0+00 – 27+40	Grade/Shape/Compact
3+60 Spur	0+00 – 3+60	Grade/Shape/Compact
H-3700	0+00 – 20+40	Grade/Shape/Compact
H-3100 Middle	0+00 – 23+00	Grade/Shape/Compact
6+81 Spur	0+00 – 6+80	Grade/Shape/Compact
3+50 Spur	0+00 – 3+50	Grade/Shape/Compact
H-3100 West	0+00 – 142+40	Grade/Shape/Compact
H-3160	0+00 – 66+00	Grade/Shape/Compact
10+00 Spur	0+00 – 10+00	Grade/Shape/Compact
H-3106	0+00 – 33+40	Grade/Shape/Compact
H-3106.4	0+00 – 27+50	Grade/Shape/Compact
H-3106.42	0+00 – 2+40	Grade/Shape/Compact
H-3170	0+00 – 29+30	Grade/Shape/Compact
H-3100 East	0+00 – 144+90	Grade/Shape/Compact
7+60 Spur	0+00 – 7+60	Grade/Shape/Compact
Tower Creek Pit Road	0+00 – 7+40	Grade/Shape/Compact
H-3150	0+00 – 2+00	Grade/Shape/Compact

2-6 CLEANING CULVERTS

On the following road(s), all inlets and outlets of culverts shall be cleaned before the start of timber haul and shall be subject to the written approval of the Contract Administrator.

<u>Road</u>	<u>Stations</u>
All	See Culvert List

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall clean and/or construct the ditches, headwalls, and catch basins. Work shall be completed before the start of timber haul and shall be done in accordance with the Typical Section Sheet. Pulling ditch material across the

road or mixing in with the road surface will not be allowed. Ditchlines, headwalls, and catch basins shall not encroach into the existing road.

<u>Road</u>	<u>Stations</u>	<u>Left or Right</u>	<u>Comments</u>
All	All	L&R	As needed or directed by Construction Administrator

2-9 REMOVING VEGETATIVE MATERIAL

On the following road(s), Purchaser shall remove all vegetative material, dirt, mud, and other debris on the existing road surface with a minimum loss of rock. Material removed shall be disposed of in accordance with Clause 3-21 through Clause 3-25 and Clause 4-36 through Clause 4-38.

<u>Road</u>	<u>Stations</u>
Rainforest LS1	0+00 – 4+50
6+81 Spur	0+00 – 6+80
3+50 Spur	0+00 – 3+50
10+00 Spur	0+00 – 5+70
9+50 Spur	0+00 – 9+50
H-3170	0+00 – 13+90

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION BRUSHING

3-1 BRUSHING

On the following road(s), vegetative material up to 5 inches in diameter, including limbs, shall be cut as shown on the Brushing Detail. Brushing shall be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation shall not be disturbed unless directed by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
Rainforest LS1	0+00 – 4+50
3+60 Spur	0+00 – 3+60
9+50 Spur	0+00 – 9+50
6+81 Spur	0+00 – 6+80
3+50 Spur	0+00 – 3+50
H-3100 West	146.9 STA TOTAL – 22 STA of Brushing to be determined by Contract Administrator
H-3106	0+00 – 33+40
H-3106.4	0+00 – 27+50
H-3106.42	0+00 – 2+40
6+51 Spur	0+00 – 6+50
H-3100 East	144.9 STA TOTAL – 30 STA of Brushing to be determined by Contract Administrator

7+60 Spur	0+00 – 7+60
3+70 Spur	0+00 – 3+70
4+01 Spur	0+00 – 4+00
Tower Creek Pit Road	0+00 – 7+40
H-3150	0+00 – 2+00

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal shall not be used for brushing. Excavator buckets, log loaders and similar equipment shall not be used for brushing.

3-3 BRUSH REMOVAL

Remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets. Brush should be disposed of so that it will not fall back onto the road prism.

SUBSECTION CLEARING

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 5 inches DBH or over 15 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.

3-7 RIGHT-OF-WAY DECKING

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

3-8 PROHIBITED DECKING AREAS

Right-of-way timber shall not be decked in the following areas:

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 40%.
- Against standing trees unless approved by the Contract Administrator.

SUBSECTION GRUBBING

3-10 GRUBBING

Remove all stumps between the grubbing limits specified on the Typical Section Sheet. Those stumps outside the grubbing limits but with undercut roots shall also be removed. Stump removal shall be accomplished using a hydraulic mounted excavator unless authorized, in writing, by the Contract Administrator. Grubbing shall be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

Grubbed stumps shall be placed outside of the clearing limits, as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps shall be positioned upright with root wads in contact with the forest floor and on stable locations.

SUBSECTION ORGANIC DEBRIS

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clauses 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 grubbing Typical Section Sheet.

3-21 DISPOSAL COMPLETION

All disposal of organic debris, shall be completed before the application of rock.

3-23 PROHIBITED DISPOSAL AREAS

Organic debris shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert.
- Within 50 feet of a live stream, or wetland.
- On road subgrades road prism excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush will fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

Organic debris shall not be buried unless otherwise stated in this Road Plan.

3-25 SCATTERING ORGANIC DEBRIS

Organic debris shall be scattered outside of the grubbing limits in accordance with Clause 3-23 unless otherwise detailed in this Road Plan and as directed by the Contract Administrator.

SUBSECTION PILE

3-31 PILING

Organic debris shall be piled no closer than 20 feet from standing timber and no higher than 20 feet in areas specified in Clause 3-22 Designated Waste Area For Organic Debris. Piles shall be free of rock and soil.

3-32 END HAULING ORGANIC DEBRIS

On the following road(s), organic debris shall be end hauled or pushed to the designated waste areas specified in Clause 3-22 Designated Waste Area For Organic Debris, or to a waste area located by the Contract Administrator.

SECTION 4 – EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

All roads shall be constructed, reconstructed, and maintained using a track mounted hydraulic excavator unless stated otherwise within this Road Plan, or permission to do otherwise is granted in writing by the Contract Administrator.

4-2 PIONEERING

Pioneering shall not extend past construction that will be completed during the current construction season. Pioneering shall not extend more than 1000 feet beyond completed construction unless approved in writing by the Contract Administrator. In addition, the following actions shall be taken as pioneering progresses:

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

4-29 DITCHOUTS

- Ditchouts shall be constructed at locations shown on the list below, and as needed to fit as built conditions. Ditchouts shall be constructed in a manner that diverts ditch water onto the forest floor and shall have excavation backslopes no steeper than a 1:1 ratio. L or R denotes ditchout left or ditchout right heading in.

<u>Road</u>	<u>Stations</u>
10+00 Spur	4+20 (R)

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

The following road grade and alignment standards shall be followed:

- Grade and alignment shall have smooth continuity, without abrupt changes in direction.
- Maximum grade shall not exceed 18 percent favorable and 16 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Sag vertical curves shall not have a grade change greater than 5% in 100 feet.
- Crest vertical curves shall not have a grade change greater than 4% in 100 feet.

4-4 SWITCHBACK STANDARDS

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

The following standards for switchbacks shall be followed:

- Adverse grades on switchbacks shall not exceed 10%.
- Favorable grades through switchbacks shall not exceed 12%.
- Transition grades entering and leaving switchbacks shall not exceed a 5% grade change.
- Transition grades required to meet switchback grade limitations shall be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

Unless construction staked or designed excavation slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>	<u>Excavation Slope Percent</u>
Common Earth (on side slopes up to 55%)	1:1	100
Common Earth (56% to 70% side slopes)	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

Unless construction staked or designed embankment slopes shall be constructed no steeper than shown on the following table:

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

4-7 SHAPING CUT AND FILL SLOPE

Excavation and embankment slopes shall be constructed 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.

Embankment widening shall be applied equally to both sides of the road to achieve the required width.

4-12 FULL BENCH CONSTRUCTION

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

SUBSECTION INTERSECTIONS, TURNOUTS AND TURNAROUNDS

4-20 SUBGRADE DIMENSIONS FOR INTERSECTIONS

On the following road(s), the Purchaser shall construct the subgrade to the dimensions shown on the Intersection Detail.

<u>Road</u>	<u>Stations</u>
4+70 Spur	0+00 – 0+50
1+30 Spur	0+00 – 0+50
4+00 Spur	0+00 – 0+50

4-21 TURNOUTS

Turnouts shall be intervisible with maximum of 1,000 feet between turnouts unless shown otherwise on drawings. Locations shall be adjusted to fit the final subgrade alignment and sight distances. Turnout locations shall be subject to written approval by the Contract Administrator.

4-22 TURNAROUNDS

Turnarounds shall be no larger than 50 feet long and 30 feet wide. Locations shall be subject to written approval by the Contract Administrator.

4-23 SUBGRADE FLARE FOR INTERSECTIONS

The Upper Hoh Road intersections shall be constructed/reconstructed to include additional intersection flare.

SUBSECTION DITCH CONSTRUCTION

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

The Purchaser shall construct 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.

4-27 DITCH WORK – MATERIAL USE PROHIBITED

On all roads, pulling ditch material across the road or mixing in with the road surface will not be allowed. Excavated material shall be disposed of as specified in Clause 4-36 through Clause 4-38.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

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 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste

material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

4-37 WASTE AREA LOCATION

Waste material shall be deposited in the listed designated areas. The amount of material to be contained in a waste area shall be at the discretion of the Contract Administrator.

Note: All amount values are estimated bank yards.

<u>Waste Area Location</u>	<u>Waste Generated From Road</u>	<u>Estimated Volume</u>	<u>Waste Area Permitted Vol.</u>
H-3150	10+00 Spur	1600 yd ³	2000 yd ³

4-38 PROHIBITED WASTE DISPOSAL AREAS

Waste material shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert.
- Within 50 feet of a live stream or wetland.
- Within a riparian management zone.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- Against standing timber.

4-39 WASTE AREA COMPACTION

Excavated material may be deposited adjacent to the road prism on side slopes up to 45% if the waste material is compacted and free of debris. On side slopes of 45% or more, all excavation shall be end hauled or pushed to designated waste areas. All waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over the entire width of the lifts, with the exception of side hill embankments too narrow to accommodate excavation equipment which may be placed by end-dumping or sidecasting until sufficiently wide to support the equipment.

SUBSECTION BORROW

4-45 SELECT BORROW

Select borrow shall consist of granular material, either naturally occurring or processed, and shall contain no more than 5% clay, organic debris, or trash by volume.

4-46 COMMON BORROW

Common borrow shall consist of soil, and/or aggregate that is non-plastic and shall contain no more than 5% clay, organic debris, or trash by volume. The material is considered non-plastic if the fines (passes the U.S. #40 sieve) in the sample cannot be rolled between the hand and a smooth surface into a thread at any moisture content.

4-47 NATIVE MATERIAL

Native material shall be excavated material free of organic debris, trash, and rocks greater than 12" in any dimension.

4-48 BORROW MATERIAL

Borrow material shall contain no more than 5% clay, organic debris, or trash by volume.

4-55 ROAD SHAPING

The road subgrade and surface shall be shaped as shown on the Typical Section Sheet. The subgrade and surface shape shall ensure runoff in an even, un-concentrated manner, and shall be uniform, firm, and rut-free.

4-56 DRY WEATHER SHAPING

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

SUBSECTION COMPACTION

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material 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 embankment segments too narrow to accommodate 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 placement of rock.

4-62 DRY WEATHER COMPACTION

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

4-63 EXISTING SURFACE COMPACTION

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

4-64 WASTE MATERIAL COMPACTION

All waste material shall be compacted by running equipment over it or bucket tamping.

4-65 CULVERT BACKFILL COMPACTION

Culvert backfills shall be accomplished by using a jumping jack compactor, performing at least 2 passes per lift, in lifts not to exceed 8 inches.

4-66 COMPACTION BY METHOD

Compaction shall consist of three complete passes over the entire width of each lift with a vibratory drum roller weighing a minimum of 6,000 pounds at a maximum operating speed of 3 mph. For embankment segments too narrow to accommodate a drum roller, a plate compactor shall be used.

SECTION 5 – DRAINAGE

5-3 PUNCHEON PLACEMENT

On the following road(s), puncheon may be utilized in the subgrade on the following road. Puncheon shall consist of logs of at least 4 inches in diameter and shall be at least 17 feet long.

<u>Road</u>	<u>Stations</u>
6+80 Spur	0+50-1+10
3+70 Spur	0+80-1+40

5-4 PUNCHEON RESTRICTED

At no time shall puncheon be used in the subgrade, unless approved by the Contract Administrator or listed in Clause 5-3.

SUBSECTION CULVERTS

5-5 CULVERTS

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

5-6 USED CULVERT MATERIAL

The Purchaser may install used culverts on the following roads. All other roads shall have new culverts installed.

<u>Road</u>	<u>Stations</u>
6+80 Spur	0+90
3+70 Spur	1+10

5-7 TEMPORARY STREAM CULVERT INSTALLATION

On the following roads, temporary stream culverts shall be located in the natural channel of the stream. Temporary culverts shall be installed as shown in the Type Ns Np Detail and Temporary Log Fill Stream Crossing Detail. Temporary culverts shall be removed as directed by the Contract Administrator. Geotextile fabric shall meet the specifications in Clause 10-2 Geotextile For Separation. Purchaser shall perform all work between July 1st and September 30th.

<u>Road</u>	<u>Stations</u>
6+80 Spur	0+90
3+70 Spur	1+10

5-8 BEVELED ENDS

The following culverts shall have their ends beveled as specified below.

<u>Road</u>	<u>Stations</u>	<u>Bevel Type</u>
4+70 Spur	0+10	2:1 (50%)
1+30 Spur	0+10	2:1 (50%)
4+00 Spur	0+10	2:1 (50%)

5-11 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the Culvert List and Rock List that are not installed shall become the property of the State. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-12 CONTINGENCY CULVERTS

The following culverts will be supplied by the Purchaser and will be available for installation on any road listed in the TYPICAL SECTION SHEET as directed by the Contract Administrator. Unused pipes will be located in Winfield North Pit as directed by C/A prior to contract expiration.

<u>Road</u>	<u>Size</u>
As Directed by C/A	2 – 18"x30'

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

Installation shall be in accordance with the Typical Cross Drain Culvert Installation Detail, Typical Type Ns Np Culvert Installation Detail, the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures", and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe shall be installed in a manner consistent with the manufacturer's recommendations.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

Installation of culverts 30 inches in diameter and over shall be subject to written approval by the District Engineer or their designee before backfilling.

5-17 CROSS DRAIN SKEW AND SLOPE

Cross drains on road grades in excess of 3% shall 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. Where the cross drain is at the low point in the road, culverts shall not be skewed. Cross drain culverts shall 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 shall be installed with a depth of cover of not less than 18 inches of compacted depth over the top of the culvert at the shallowest point. Stream crossing culverts shall be installed with a depth of cover specified in the Engineer’s design, Type Ns Np Typical Detail Sheet, or to the minimum depth recommended by the culvert manufacturer for the type of cover material over the pipe, whichever is greater.

SUBSECTION ENERGY DISSIPATERS

5-20 ENERGY DISSIPATERS

Energy dissipaters shall be installed to prevent erosion and are subject to approval by the Contract Administrator. Rock shall weigh at least 10 pounds and be placed by zero-drop-height method. Energy dissipater shall extend a minimum of ¾ foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet.

5-21 DOWNSPOUTS AND FLUMES

Downspouts and flumes longer than 10 feet shall be staked on both sides at maximum intervals of 10 feet with 6-foot heavy-duty steel posts or 1 ½” X 3/16” angle iron, and fastened securely to the posts with No. 10 galvanized smooth wire, or bolted using minimum 5/16” bolts and 2 washers per bolt, in accordance with the Culvert Installation Typical Details Page.

5-22 ABOVE GROUND CULVERT ENERGY DISSIPATORS

At the end of the culvert, approximately 1 yd³ of oversize material shall be placed. The extents of placement shall be in accordance with Culvert Installation Typical Details Page.

5-23 STAKING ABOVE GROUND CULVERTS

Culverts shall be staked on both the outlet and inlet. In addition, no more than 10ft of culvert shall be allowed without being staked. Staking shall consist of driving two heavy duty steel fence posts, or 1 ½” X 3/16” angle iron, at least 2 feet into the ground at each point, and attaching them to the culvert using No.10 or larger galvanized smooth wire.

SECTION 6 – ROCK AND SURFACING

SUBSECTION ROCK SOURCE

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. Use of material from any other source must have prior written approval from the Contract Administrator. If other operators are using, or desire to use, the rock source(s), a joint operating plan shall be developed. All parties shall follow this plan. The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the listed locations.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
Tower Creek Pit	T27N R11W Sec 23	Ballast, Rip Rap
Winfield Pit	T27N R12W Sec 35	4” Jaw Run

Winfield Pit	T27N R12W Sec 35	1.5" Crushed
Winfield Pit	T27N R12W Sec 35	Pit Run

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the Rock List may be obtained from the following existing stockpile(s) on state land at no charge to the Purchaser. Purchaser shall remove no more than 5200 cubic yards of 4" Jaw Run unless authorized by the Contract Administrator. Purchaser shall remove no more than 700 cubic yards of 1 ½" Crushed unless authorized by the Contract Administrator. If the Tower Creek Pit Ballast stockpile is exhausted before all the rock called for has been removed, then the remaining rock shall come from the Winfield Pit Run stockpile, but not before.

Source	Location	Quantity (yd ³)
Ballast	Tower Creek Pit	1750
Rip Rap	Tower Creek Pit	100
4" Jaw Run	Winfield Pit	5140
1 ½ inch Crushed	Winfield Pit	610

6-5 ROCK FROM COMMERCIAL SOURCE

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

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

All rock source development and use shall be in accordance with a written Rock Source Development and Reclamation Plan prepared by the State and included in this Road Plan. Rock source operations shall be conducted as directed by the Contract Administrator and in accordance with the plan. Upon completion of operations, the rock source shall be left in the condition specified in the Rock Source Development and Reclamation Plan, and approved in writing by the Contract Administrator. The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the rock source.

6-12 ROCK SOURCE SPECIFICATIONS

Rock sources shall be in accordance with the following unless otherwise specified in Rock Source Development and reclamation plan:

- 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:

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 shall be maintained in a condition to minimize the possibility of the walls sliding or failing.
- The width of pit benches shall be a minimum of 1.5 times the maximum length of the largest machine used.
- The surface of pit floors and benches shall be uniform and free-draining at a minimum 2% outslope gradient.
- All operations shall 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.
- Block all vehicle access to the top of the pit faces.

6-15 REQUIRED ROCK SOURCE WORK

The following rock source work is required. Work is to be done according to the approved Rock Source Development And Reclamation Plan and as directed by the Contract Administrator.

<u>Site</u>	<u>Requirements</u>
Winfield Pit	10,000 CY of 4" Jaw Run to be processed by July 31 st , 2025

SUBSECTION ROCK MANUFACTURE

6-23 ROCK CRUSHING OPERATIONS

Rock crushing operations shall conform to the following specifications:

- Operations and placement of oversize material shall be conducted in or near the rock source site, as approved in writing by the Contract Administrator.

6-24 ROCK CRUSHING COMPLIANCE PROCEEDURE

Phase I. Equipment Adjustment

Step 1:

At start up of crushing operations, the Purchaser will notify the Contract Administrator when the rock meets the gradation specifications in the contract. None of the rock crushed during this calibration period will be counted toward the amount required to be crushed, and this rock must be kept separate from accepted rock crushed later.

Step 2:

The Purchaser will test the rock. Two samples will be taken. If the rock meets specifications, crushing may begin. If the rock does not meet specifications, return to Step 1.

Phase II. Production

Step 3:

The Purchaser will continue periodic testing to ensure that rock stays in spec. Testing will take place according to the following schedule:

- After the first 500 yards
- After every 2,000 yards thereafter.

a) Any time a sample is out of spec, but is within 5%*, the Purchaser will be notified and a second sample will be taken later in the day. If the second sample meets specifications, the rock crushed during that day will be accepted. If the second sample also fails to meet spec, none of the rock crushed since the last acceptable test will be counted toward the amount to be crushed.

b) Any time a sample is out of spec and is more than 5% off in any category, none of the rock crushed since the last acceptable test will be accepted and that rock must be kept separate from the stockpile. Return to Step 1.

c) Purchaser is strongly encouraged to take their own samples regularly and keep their operations in spec to avoid unnecessary expenses.

- The 5% will be applied only to sieve specs for 2" to ¼"; rock that is out of spec in larger sizes must be kept separate from the acceptable rock.

SUBSECTION ROCK GRADATIONS

6-29 1 ½-INCH MINUS CRUSHED ROCK

% Passing 1 ½" square sieve	100%
% Passing 1" square sieve	50 - 85%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	16% maximum
% Passing U.S. #200 sieve	5% maximum

6-39 4-INCH JAW RUN ROCK

% Passing 4" in one dimension	100%
% Passing 3" square sieve	45 - 65%

Rock shall not contain more than 5% organic debris and trash. All percentages are by weight.

6-43 QUARRY SPALLS

% Passing 12" square sieve	100%
% Passing 8" square sieve	10% maximum

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

6-50 LIGHT LOOSE RIP RAP

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

<u>At Least/Not More Than</u>	<u>Weight Range</u>	<u>Size Range</u>
20% / 90%	300 lbs. to 1 ton	12"- 36"

SUBSECTION ROCK MEASUREMENT

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths are defined as the compacted depth(s) using the compaction methods required in this Road Plan. Estimated quantities specified in the Rock List are estimated truck 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.

SUBSECTION ROCK STOCKPILE

6-67 ROCK STOCKPILE SPECIFICATIONS

Rock stockpiles shall meet the following specifications and must be approved by the Construction Administrator.

- Before placing aggregates upon the stockpile site, the site shall be cleared of vegetation, trees, stumps, brush, rocks or other debris and the ground leveled to a smooth, firm, uniform surface.
- When completed, the stockpile shall be neat and regular in shape.
- The stockpile height shall be limited to a maximum of 30 feet.
- Stockpiles in excess of 500 cubic yards shall be built up in layers not more than 8 feet in depth. Stockpile layers shall be constructed by trucks, clamshells, or other methods approved, in writing, by the Contract Administrator.
- Each layer shall be completed over the entire area of the pile before depositing aggregates in the next layer. The aggregates shall not be dumped so that they run down and over the lower layers in the stockpile. The method of dropping from a bucket or spout in one location so as to form a cone shaped pile will not be permitted.
- Stockpiles of different types or sizes of aggregate shall be spaced far enough apart, or separated by suitable walls or partitions, to prevent the mixing of the aggregates.

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

Subgrade drainage installation including grading and compaction, shall be completed and approved in writing by the Contract Administrator, before rock application.

6-71 ROCK APPLICATION

Rock shall be applied in accordance with the specifications and quantities shown on the Rock List. Rock shall be spread, shaped, and compacted full-width concurrent with rock hauling operations. Rock shall be compacted in accordance with Compaction List, in lifts not to exceed 6 inches.

6-72 ROCK APPLICATION AFTER HAULING

On the following road(s), upon completion of all hauling operations, Purchaser shall apply 1 1/2" minus crushed rock in accordance with the quantities shown on the Rock List.

<u>Road</u>	<u>Stations</u>	<u>Amount</u>
H-3100	All stations as determined by the Contract Administrator	200 yd ³
H-3160	All stations as determined by the Contract Administrator	50 yd ³

6-73 ROCK FOR WIDENED PORTIONS

Turnarounds, turnouts, and areas with curve widening shall have rock applied to the same depth and specifications as the traveled way.

6-78 ROCK FOR SPOT PATCHING

Rock for spot patching shall be applied before any grading is done and before any rock lifts are applied. Once applied, spot patches shall be graded into the existing running surface.

SECTION 7 – STRUCTURES

SUBSECTION SIGNS

7-1 SIGN INSTALLATION (HIGHWAY)

The Purchaser shall be responsible for the purchase, installation, and maintenance of the following road signs. Signs shall be installed a minimum of 7 days before road closure (including partial closures). Active hauling signs must be in place during the entirety of harvest. Signs shall comply with the Federal Highway Administration’s Manual on Uniform Traffic Control Devices (MUTCD).

<u>Road</u>	<u>Station</u>	<u>Sign</u>
4+70 Spur	Mile Marker 0.5	Construction/Hauling/Active Logging
1+30 Spur	Mile Marker 2.9	Construction/Hauling/Active Logging
4+00 Spur	Mile Marker 2.9	Construction/Hauling/Active Logging
2+60 Spur	Mile Marker 1.3	Construction/Hauling/Active Logging

SUBSECTION STREAM CROSSING STRUCTURES GENERAL

7-5 STRUCTURE DEBRIS

The Purchaser shall ensure that debris from the installation or removal of structures does not enter any stream. Components removed from the existing structures(s) shall be placed at designated site(s), as directed in writing by the Contract Administrator. The Purchaser is responsible for maintaining a clean jobsite, with all materials stored away from any high water mark or other area presenting a risk of the materials entering a stream. Debris entering any stream shall be removed immediately and placed in the site(s) designated for stockpiling or disposal. The Purchaser is responsible for retrieving all material carried downstream from the jobsite by the stream current.

7-6 STREAM CROSSING INSTALLATION

Installation of stream crossing structures shall be in accordance with the manufacturer's requirements, and as directed by the District Engineer or their designee.

7-7 BANK PROTECTION FOR STREAM CROSSING STRUCTURES

Bank protection shall be designed and constructed to prevent the undermining of the structure.

SUBSECTION ACCEPTANCE

7-14 PRE-DESIGN WORK MEETING

Prior to any design work occurring a pre-work conference call shall occur to review the Road Plan requirements for the design and manufacture of all structures.

7-20 REQUIRED NOTIFICATION AND APPROVAL

Purchaser shall provide the District engineer or their designee 3 day notification prior to beginning road work on the Upper Hoh Road for all associated approaches. Purchaser shall receive approval for completed road work on the Upper Hoh Road from the District engineer or their designee prior to log haul on those roads.

SUBSECTION BRIDGE MAINTENANCE

7-30 BRIDGE MAINTENANCE

On the following road(s), bridge maintenance, as listed below, is required as part of this contract. All old bridge material shall be removed from state land by the Purchaser before the termination of the contract.

<u>Road</u>	<u>Station</u>	<u>Requirements</u>	<u>Detail Sheet</u>
H-3100 West	5+10	Post-Haul Surface Cleaning	N/A
H-3100 West	48+00	Post-Haul Surface Cleaning	N/A

8-1 SEDIMENT CONTROL STRUCTURES

On the following road(s), Purchaser shall install sediment control structures as listed below.

<u>Road</u>	<u>Stations</u>	<u>Comments</u>
H-3100 West	36+20	Install 50' SF L&R
H-3100 West	55+00	Install 50' SF R
H-3100 West	56+70	Install 50' SF L
H-3100 West	73+40	Install 50' SF L
H-3100 West	91+00	Install 80' SF L
H-3100 West	100+50	Install 50' SF L
H-3160	20+50	Install 100' SF L
H-3160	32+00	Install 100' SF L
H-3100 East	91+40	Install 50' Berm L&R
H-3100 East	110+50	SF in ditch
H-3100 East	119+25	Install 100' SB+SF L

SUBSECTION REVEGETATION

8-15 REVEGETATION

Purchaser shall grass seed and hay mulch all exposed soils including, but not limited to, stream culverts, waste areas, sidecast pull back areas, stream crossing removals, bridge installations, and other areas directed by the Contract Administrator. Revegetation of exposed soils shall be accomplished by manual dispersal of grass seed unless otherwise detailed in this Road Plan. Other methods of revegetation must be approved in writing by the Contract Administrator.

8-16 REVEGETATION SUPPLY

All seed, mulch, hay, matting, etc. will be provided by the Purchaser.

8-17 REVEGETATION TIMING

Purchaser shall perform revegetation during the first available opportunity. Soils shall not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator. Soils shall not be allowed to sit exposed during any rain event.

8-18 PROTECTION FOR SEED

Purchaser shall provide a protective cover over the revegetated area. The protective cover may consist of, but not be limited to, such items as dispersed hay mulch 3" thick or jute matting.

8-19 ASSURANCE FOR SEEDED AREA

The Purchaser shall be responsible to ensure a uniform and dense crop of grass. The Purchaser shall reapply the seed and/or mulch in areas that have been damaged through any cause, before approval from the Contract Administrator. The Purchaser shall restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the seed and/or mulch at no additional cost to the state.

SUBSECTION SEED, FERTILIZER, AND MULCH

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soils at a rate of 60 pounds per acre of exposed soil.

<u>Seed Species</u>	<u>% by Weight</u>
• Perennial Ryegrass	40.00
• Creeping Red Fescue	40.00
• White Dutch Clover	10.00
• Colonial Bentgrass	10.00

Grass seed shall 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

SECTION 9 – POST-HAUL ROAD WORK

SUBSECTION STRUCTURES

9-3 REMOVAL OF CULVERT MATERIAL FROM STATE LAND

Culvert material removed from roads becomes the property of the Purchaser and must be removed from state land.

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

Post-haul maintenance shall be performed in accordance with the Forest Access Road Maintenance Specifications and as specified below.

<u>Road</u>	<u>Stations</u>	<u>Additional Requirements</u>
All	All	Clean culverts, clean ditches, grade road shape and compact as directed by the Contract Administrator.
H-3100	All	Apply post haul rock as per Clause 6-72. Bridges at 5+10 and 48+00 to be cleaned.
H-3150	0+00-2+00	Grade and shape road in accordance with Clause 2-5. Apply rock in accordance with Clause 6-72. Compact Rock in accordance with Compaction List.
H-3160	All	Apply rock in accordance with Clause 6-72. Install Water-bars as directed by C/A.

SUBSECTION POST-HAUL LANDING MAINTENANCE

9-10 LANDING DRAINAGE

On all roads, Purchaser shall provide for drainage of the landing surface as approved in writing by the Contract Administrator.

9-11 LANDING EMBANKMENT

On all roads, landing embankments shall be sloped to original construction specifications.

9-20 ROAD DECOMMISSIONING

The following road(s) shall be decommissioned by the Purchaser between July 1st & September 30th of the same year as installed.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
6+80 Spur	0+00-6+80	Temporary Crossing
3+70 Spur	0+00-3+70	Temporary Crossing
Total:	10.5 STA	

9-22 LIGHT DECOMMISSIONING

Decommissioning shall consist of:

1. Remove all culverts. Resulting back slopes shall be 1:1 or shallower for cross drains and 1.5:1, or as specified in approved drawings, for all live stream culvert removals. Material removed shall be placed on the roadbed and compacted, with slopes of 2:1 or shallower, or end-hauled to designated waste areas. Culverts removed shall become the property of the Purchaser and removed from State land.
2. Construct non-drivable water bars as directed by the Contract Administrator. On grades in excess of 3%, non-drivable water bars shall be skewed 30 degrees from the perpendicular of the road centerline.
3. Restore all ditchouts to drain water.
4. Repair or construct ditchlines.
5. Remove any berms, except as directed.
6. Restoration of natural stream channels across road prism, as directed by the Contract Administrator.
7. Removing all fill material as approved by the Contract Administrator.
8. All material from fill removals, culvert removals, and bridge removals shall be placed on roadbed and compacted, except that material listed in Clause 4-37.
9. Purchaser shall furnish and apply grass seed to all areas of exposed soil, including but not limited to: water bars, waste piles, and culvert removal sites. Grass seed shall be applied at a rate of 60 pounds per acre.
10. Block road to vehicular traffic using logs, slash, and stumps, as directed by the Contract Administrator.

SECTION 10 MATERIALS

SUBSECTION GEOTEXTILES

10-6 GEOTEXTILE FOR TEMPORARY SILT FENCE

Geotextiles shall meet the following minimum requirements for strength and property qualities, and shall be designed by the manufacturer to be used for filtration. Woven slit-film geotextiles will not be allowed. Material shall be free of defects, cuts, and tears.

	<u>ASTM Test</u>	<u>Requirements</u>
Type	--	Unsupported between posts
Apparent opening size	D 4751	No. 30 max., No. 100 min.
Water permittivity	D 4491	0.02 sec ⁻¹
Grab tensile strength	D 4632	180 lb in machine direction, 100lb in cross-machine direction

Grab tensile elongation	D 4632	30% max. at 180 lb or more
Ultraviolet stability	D 4355	70% retained after 500 hours of exposure

SUBSECTION CULVERTS

10-15 CORRUGATED STEEL CULVERT

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

10-16 CORRUGATED ALUMINUM CULVERT

Aluminum culverts shall meet AASHTO M-196 (ASTM A-745) specifications.

10-17 CORRUGATED PLASTIC CULVERT

Polyethylene culverts shall meet AASHTO M-294 specifications. Culverts shall be Type S – double walled with a corrugated exterior and smooth interior.

10-20 FLUME AND DOWNSPOUT

Downspouts and flumes shall meet the AASHTO specification designated for the culvert. Plastic downspouts and flumes shall be Type S – double walled with a corrugated exterior and smooth interior.

10-21 METAL BAND

Metal coupling and end bands shall meet the AASHTO specification designated for the culvert and shall have matching corrugations. On culverts 24 inches and smaller, bands shall have a minimum width of 12 inches. On culverts over 24 inches, bands shall have a minimum width of 24 inches.

10-22 PLASTIC BAND

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

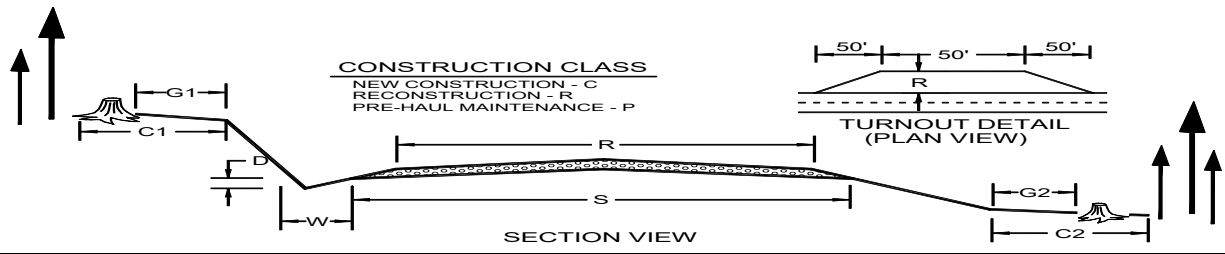
10-23 RUBBER CULVERT GASKETS

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

10-24 GAGE AND CORRUGATION

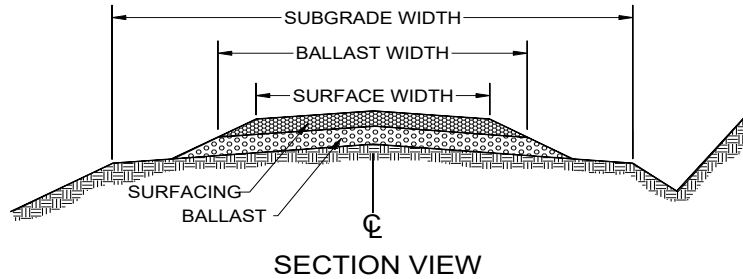
Metal culverts shall conform to the following specifications for gage and corrugation as a function of diameter.

<u>Diameter</u>	<u>Gage</u>	<u>Corrugation</u>
18"	16 (0.064")	2 2/3" X 1/2"
24" to 48"	14 (0.079")	2 2/3" X 1/2"
54"	12	5" X 1"
60" +	10	5" X 1"



ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	CROWN AT CL (in)	DITCH WIDTH (W) (ft)	DITCH DEPTH (D) (ft)	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (C1)	ROAD FILL CLEARING (C2)
Rainforest LS1	0+00	5+50	P	17	12	3	2	1				
6+50 Spur	0+00	6+50	C	17	12	3	2	1	3	5	10	5
4+70 Spur	0+00	4+70	C	17	12	3	2	1	3	5	10	5
H-3500	0+00	27+40	P	17	12	3	2	1				
3+60 Spur	0+00	3+60	P	17	12	3	2	1				
6+80 Spur	0+00	6+80	C	17	12	3	2	1	3	5	10	5
2+60 Spur	0+00	2+30	C	17	12	3	2	1	3	5	10	5
1+30 Spur	0+00	1+30	C	17	12	3	2	1	3	5	10	5
4+00 Spur	0+00	4+00	C	17	12	3	2	1	3	5	10	5
H-3700	0+00	20+40	P	17	12	3	2	1				
H-3100	0+00	310+80	P	17	12	3	2	1				
6+80 Spur	0+00	6+80	P	17	12	3	2	1				
3+50 Spur	0+00	3+50	P	17	12	3	2	1				
H-3170	0+00	29+30	P	17	12	3	2	1				
H-3160	0+00	66+00	P	17	12	3	2	1				
10+00 Spur	0+00	10+00	P	17	12	3	2	1				
H-3106	0+00	29+20	P	17	12	3	2	1				
H-3106.4	0+00	23+40	P	17	12	3	2	1				
6+51 Spur	0+00	6+50	C	17	12	3	2	1	3	5	10	5
H-3106.42	0+00	2+40	P	17	12	3	2	1				
9+50 Spur	0+00	9+50	C	17	12	3	2	1	3	5	10	5
4+01 Spur	0+00	4+00	C	17	12	3	2	1	3	5	10	5
7+60 Spur	0+00	7+60	P	17	12	3	2	1				
3+70 Spur	0+00	3+70	C	17	12	3	2	1	3	5	10	5
Tower Creek Pit Road	0+00	7+40	P	17	12	3	2	1				
H-3150	0+00	2+00	P	17	12	3	2	1				

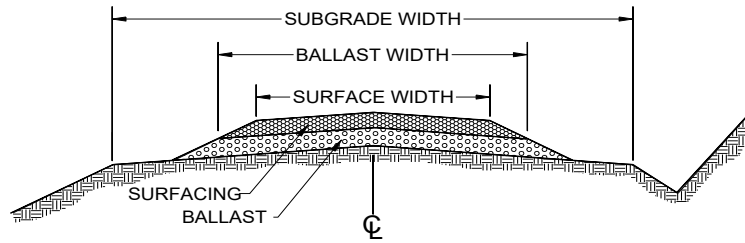
ROCK LIST SHEET



1. Rock quantities, subtotals and totals are “truck measure” estimates. Rock shall be applied to at least the depths listed.
2. All depths are compacted depths.
3. Rock slopes shall be 1½ (H) : 1 (V).
4. All rock sources are subject to approval by the Contract Administrator.
5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ¼” minus to 4” minus per Line 6. Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.
6. Rock sources= 1: Tower Creek Ballast, 2: Tower Creek Rip Rap, 3: Winfield 4” Jaw Run, 4: Winfield Pit Run, 5: Quarry Spalls

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun_SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd ³ /sta)	Pitrun SUBTOTAL(yd ³)	Crushed_SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd ³ /sta)	Crushed Subtotal(yd ³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd ³)
Rainforest LS1															
Lift	0+00	5+50		4	12	12	70	390							
6+50															
Lift	0+00	6+50		4	12	18	110	710							
4+70 Spur															
Approach	0+00	1+00		5	12	12	70	150							
Lift	1+00	4+70		4	12	18	110	410							
3+60 Spur															
Lift	0+00	3+60		4	12	12	70	250							
6+80 Spur															
Lift	0+00	6+80		4	12	18	110	750							
Culvert	0+00			4				20							
Culvert	1+06			4				20							
2+60 Spur															
Lift	1+00	2+60		4	12	18	110	180							
Totals:	Winfield Pit Run: 2730, Quarry Spalls: 150														

ROCK LIST SHEET CONTINUED



SECTION VIEW

1. Rock quantities, subtotals and totals are “truck measure” estimates. Rock shall be applied to at least the depths listed.
2. All depths are compacted depths.
3. Rock slopes shall be 1½ (H) : 1 (V).
4. All rock sources are subject to approval by the Contract Administrator.
5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ¼” minus to 4” minus per Line 6. Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.
6. Rock sources= 1: Tower Creek Ballast, 2: Tower Creek Rip Rap, 3: Winfield 4” Jaw Run, 4: Winfield Pit Run, 5: Quarry Spalls

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Ballast SOURCE	Ballast WIDTH (ft)	Ballast DEPTH (in)	Ballast Quantity(yd ³ /sta)	Ballast SUBTOTAL(yd ³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd ³ /sta)	Crushed Subtotal(yd ³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd ³)
H-3100 (East)															
Misc*	0+00	145+40							3	12	6	35	920*		
Culvert	95+60	95+60		4				20							
H-3100															
Post Haul	ALL	ALL							3				200		
6+81 Spur															
Lift	0+00	6+80		4	12	12	70	480							
3+50 Spur															
Lift	0+00	3+50		4	12	12	70	250							
H-3170															
Lift	0+00	23+90							3	12	12	70	2050		
Culvert	27+70	27+70		4				20							
H-3160															
Lift*	0+00	66+00							3	12	6	35	1160*		
Landing	0+00	64+90		4				50							
Post Haul	ALL	ALL		3				50							
10+00 Spur															
Lift	0+00	10+00		4	12	18	110	1100							
Landing	10+00	10+00		4				50							
								Winfield Pit Run: 1970					Winfield Jaw: 4380		

ROCK LIST SHEET GRAND TOTAL

Source	Quantity (yd ³)
1: Tower Creek Pit Ballast	1750
2: Tower Creek Pit Rip Rap	10
3: Winfield 4" Jaw Run	6220
4: Winfield Pit Run	6940
5: Quarry Spalls	450

CULVERT LIST

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	RIP RAP - INLET (cy)	RIP RAP - OUTLET (cy)	BACKFILL MATERIAL	NOTES
H-3700	9+75						PR	Clean Inlet & Outlet
H-3100 Middle	6+10	18	40				PR	Replace the two 15" culverts with a single 18"x40' plastic.
H-3100 Middle	7+10					.5	PR	Clean Inlet & Install Energy Dissipater (ED)
H-3100 Middle	10+70						PR	Clean Inlet & Outlet
H-3100 Middle	15+20						PR	Clean Outlet
H-3100 Middle	16+40	18	30				PR	Replace (RP) with 18"x30' plastic
H-3100 Middle	20+70	18	30				PR	RP with 18"x30' plastic
H-3100 West	3+20						PR	Clean Inlet
H-3100 West	6+40						PR	Clean Inlet & Outlet
H-3100 West	10+00	18	40				PR	RP with 18"x40' plastic
H-3100 West	12+60						PR	Clean Outlet
H-3100 West	13+70						PR	Clean Inlet & Outlet
H-3100 West	15+00						PR	Clean Inlet
H-3100 West	21+40						PR	Clean Inlet
H-3100 West*	26+00	30	40				PR	RP with 30"x40' plastic. MP
H-3100 West	37+40						PR	Clean Inlet
H-3100 West	38+90					.5	PR	Clean Inlet & Install ED
H-3100 West	40+60						PR	Clean Outlet

All backfill shall be native material (NT) unless specified otherwise. CR= 1 ¼"- crushed rock, PR = pit run.

CULVERT LIST Continued

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	RIP RAP - INLET (cy)	RIP RAP - OUTLET (cy)	BACKFILL MATERIAL	NOTES
H-3100 West	47+00	18	50				PR	RP with 18"x50' plastic
H-3100 West	49+20						PR	Clean Inlet & Outlet
H-3100 West	55+60						PR	Clean Inlet
H-3100 West	57+70						PR	Clean Inlet & Outlet
H-3100 West	58+20						PR	Clean Inlet
H-3100 West	61+30						PR	Clean Inlet
H-3100 West	64+20						PR	Clean Inlet
H-3100 West	64+80						PR	Clean Inlet & Outlet
H-3100 West	65+20						PR	Clean Inlet
H-3100 West	72+60						PR	Clean Inlet
H-3100 West	74+20						PR	Clean Inlet
H-3100 West	74+90						PR	Clean Inlet & Outlet
H-3100 West	78+80						PR	Clean Inlet
H-3100 West	83+00						PR	Clean Inlet
H-3100 West	84+40						PR	Clean Inlet
H-3100 West	87+60						PR	Clean Inlet

All rip rap shall be Oversize unless specified in the Rock List, or in the field. All backfill shall be native material (NT) unless specified otherwise. CR= 1 1/4" - crushed rock, PR = pit run.

CULVERT LIST Continued

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	RIP RAP - INLET (cy)	RIP RAP - OUTLET (cy)	BACKFILL MATERIAL	NOTES
H-3100 West	93+50						PR	Clean Inlet
H-3100 West	98+80						PR	Clean Inlet
H-3100 West	106+50						PR	Clean Inlet
H-3100 West	107+10						PR	Clean Inlet
H-3100 West	109+00						PR	Clean Inlet
H-3100 West	113+50						PR	Clean Inlet
H-3100 West	119+60						PR	Clean Inlet
H-3100 West	119+80						PR	Clean Inlet
H-3100 West	123+20						PR	Clean Inlet
H-3100 West	128+40						PR	Clean Inlet
H-3100 West	134+40						PR	Clean Inlet
H-3100 West	136+80						PR	Clean Inlet
H-3100 East	72+50						PR	Clean Inlet
H-3100 East	87+30						PR	Clean Inlet
H-3100 East	89+50						PR	Clean Inlet
H-3100 East	90+00						PR	Clean Inlet
H-3100 East	91+40	24	40				PR	FP – Berm L&R 50'
H-3100 East	95+60	18	40				PR	RP 18"x40' plastic

All backfill shall be native material (NT) unless specified otherwise. CR= 1 ¼" - crushed rock, PR = pit run.

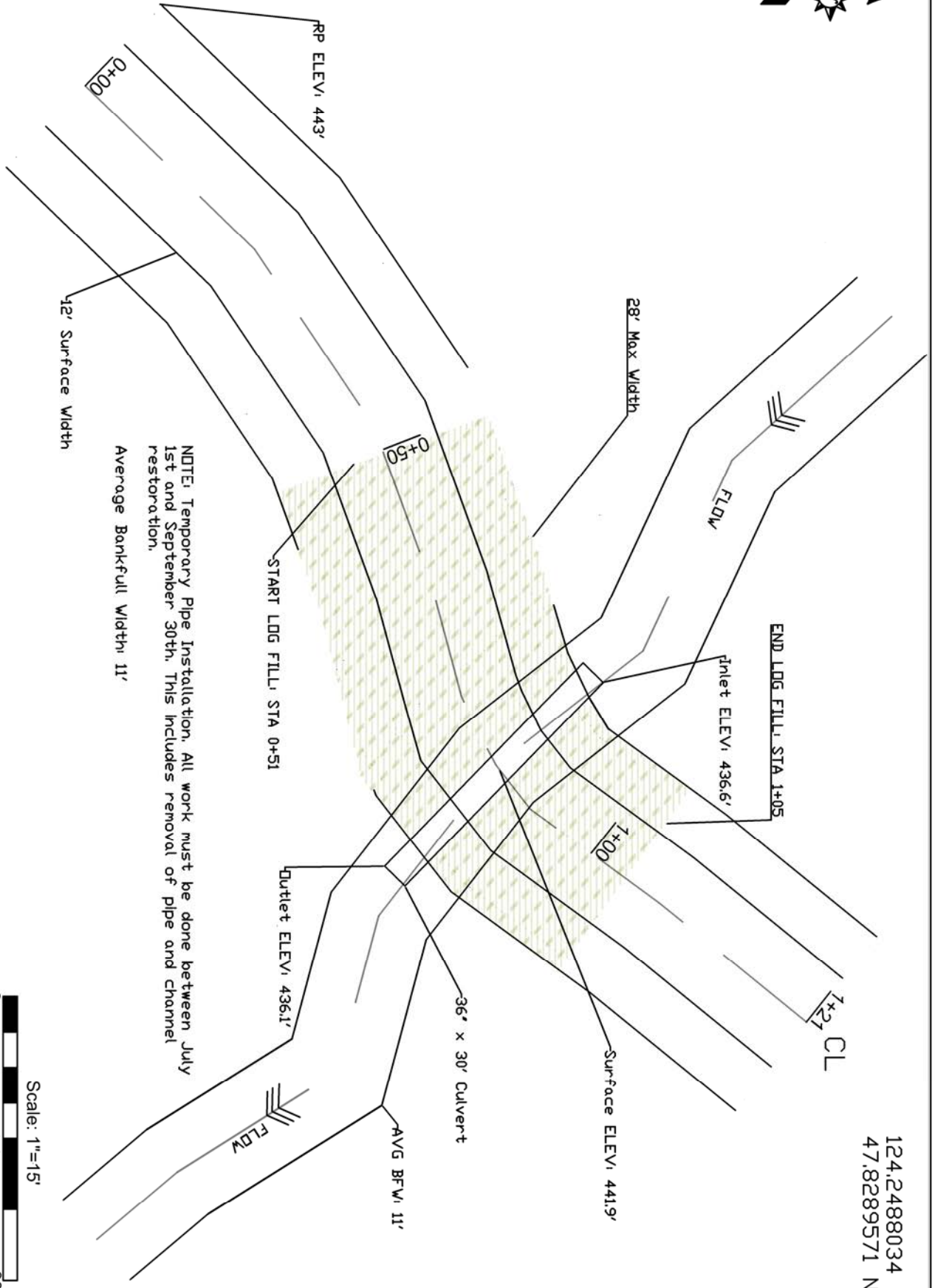
CULVERT LIST Continued

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	RIP RAP - INLET (cy)	RIP RAP - OUTLET (cy)	BACKFILL MATERIAL	NOTES
H-3100 East	99+75						PR	Clean Inlet
H-3100 East	106+60						PR	Clean Inlet
H-3100 East	110+50						PR	Clean Inlet
H-3100 East	115+80						PR	Clean Inlet
H-3100 East	119+25						PR	SB+SF 100' LS
H-3100 East	125+00						PR	Clean Inlet
H-3100 East	126+10						PR	Cut off outlet where frayed
H-3100 East	144+10						PR	Clean Inlet
H-3160	1+40						PR	Clean Inlet
H-3160	6+45						PR	Clean Outlet
H-3160	8+82						PR	Clean Inlet
H-3160	11+33						PR	Clean Inlet
H-3160	17+68					.5	PR	Clean Debris from Outlet & Install ED
H-3160	25+60						PR	Clean Inlet
H-3160	28+44						PR	Clean Inlet
H-3160	38+60					.5	PR	Clean Inlet & Install ED
H-3160	42+40					.5	PR	Clean Inlet & Install ED
H-3160	47+20						PR	Clean Inlet
H-3160	50+80						PR	Clean Inlet & Outlet
H-3160	56+70						PR	Clean Inlet
H-3160	60+40						PR	Clean Inlet
H-3160	61+80						PR	Clean Inlet & Outlet
H-3160	66+00						PR	Clean Inlet & Outlet
H-3170	27+70	18	30				PR	Replace with 18"x30'
4+70 Spur	0+00	18	40				PR	Install New 18"x40'
6+80 Spur	0+00	18	40				PR	Install New 18"x40'
6+80 Spur	1+80	36	30				PR	Install New 36"x30' (Temp)
1+30 Spur	0+00	18	40				PR	Install New 18"x40'
4+00 Spur	0+00	18	40				PR	Install New 18"x40'
3+70 Spur	1+30	24	30				PR	Install New 24"x30' (Temp)
Contingency		18	30					2 – 18"x30'

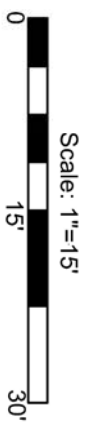
All rip rap shall be Oversize unless specified in the Rock List, or in the field.



124.2488034 W
47.8289571 N



NOTE: Temporary Pipe Installation. All work must be done between July 1st and September 30th. This includes removal of pipe and channel restoration.
Average Bankfull Width 11'

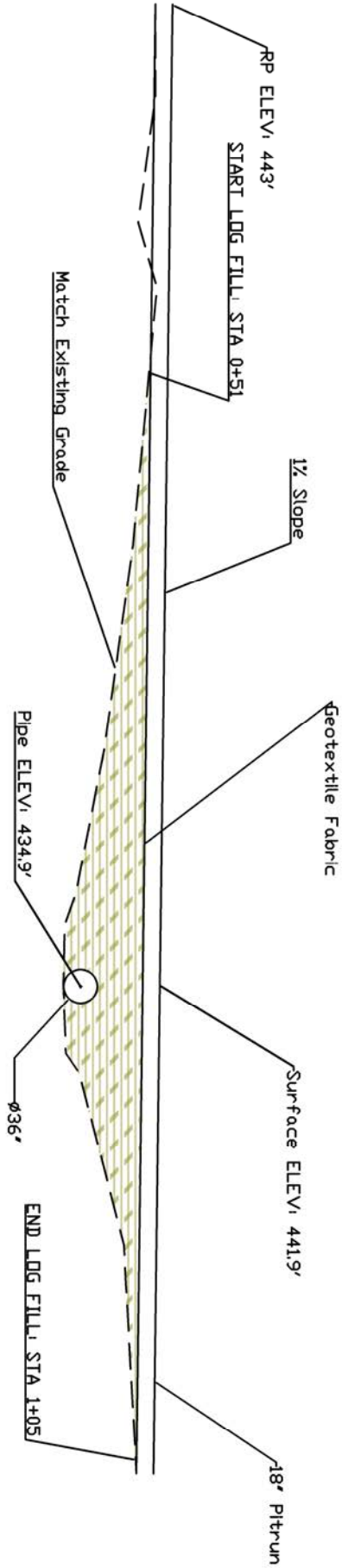


NEW FOX UNIT 3 T27NR12W -
TEMP CROSSING (C1) Section 21

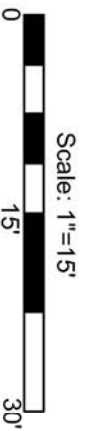


6+80 Spur - Temp Crossing - Plan View
Drawn By: Kyle Knighten
Date: 7/31/24
Sheet 1 of 3

124,2488034 W
47,8289571 N



NOTE: Temporary Pipe Installation. All work must be done between July 1st and September 30th. This includes removal of pipe and channel restoration.
Average Bankfull Width: 11'

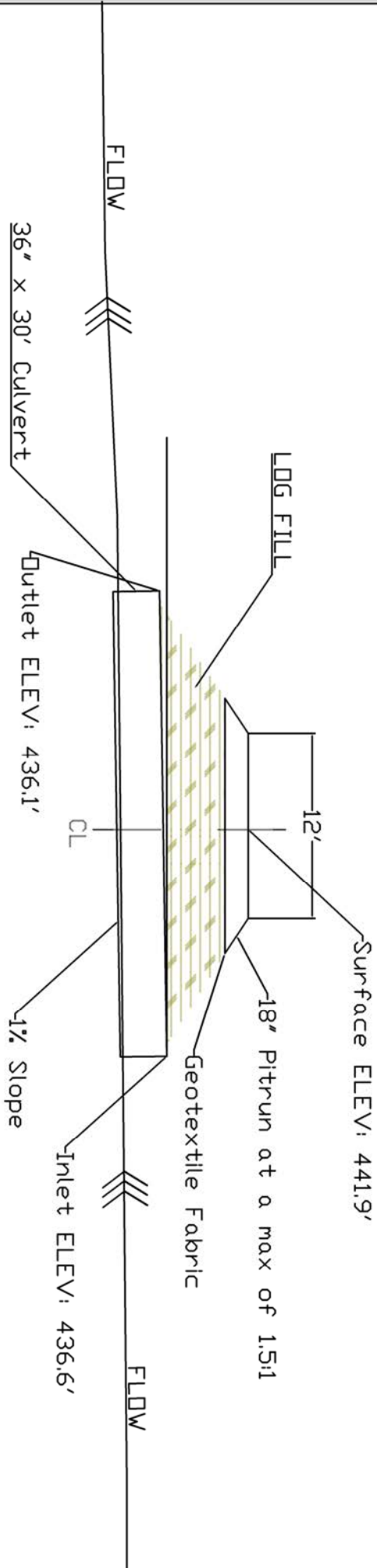


NEW FOX UNIT 3 T27NR12W -
TEMP CROSSING (C1) Section 21



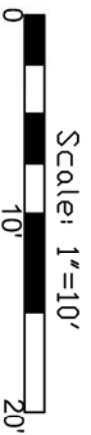
6+80 Spur - Temp Crossing - X-Section
Drawn By: Kyle Knighten
Date: 7/31/24
Sheet 2 of 3

124.2488034 W
47.8289571 N



NOTE: Temporary Pipe Installation. All work must be done between July 1st and September 30th. This includes removal of pipe and channel restoration.

Average Bankfull Width: 11'



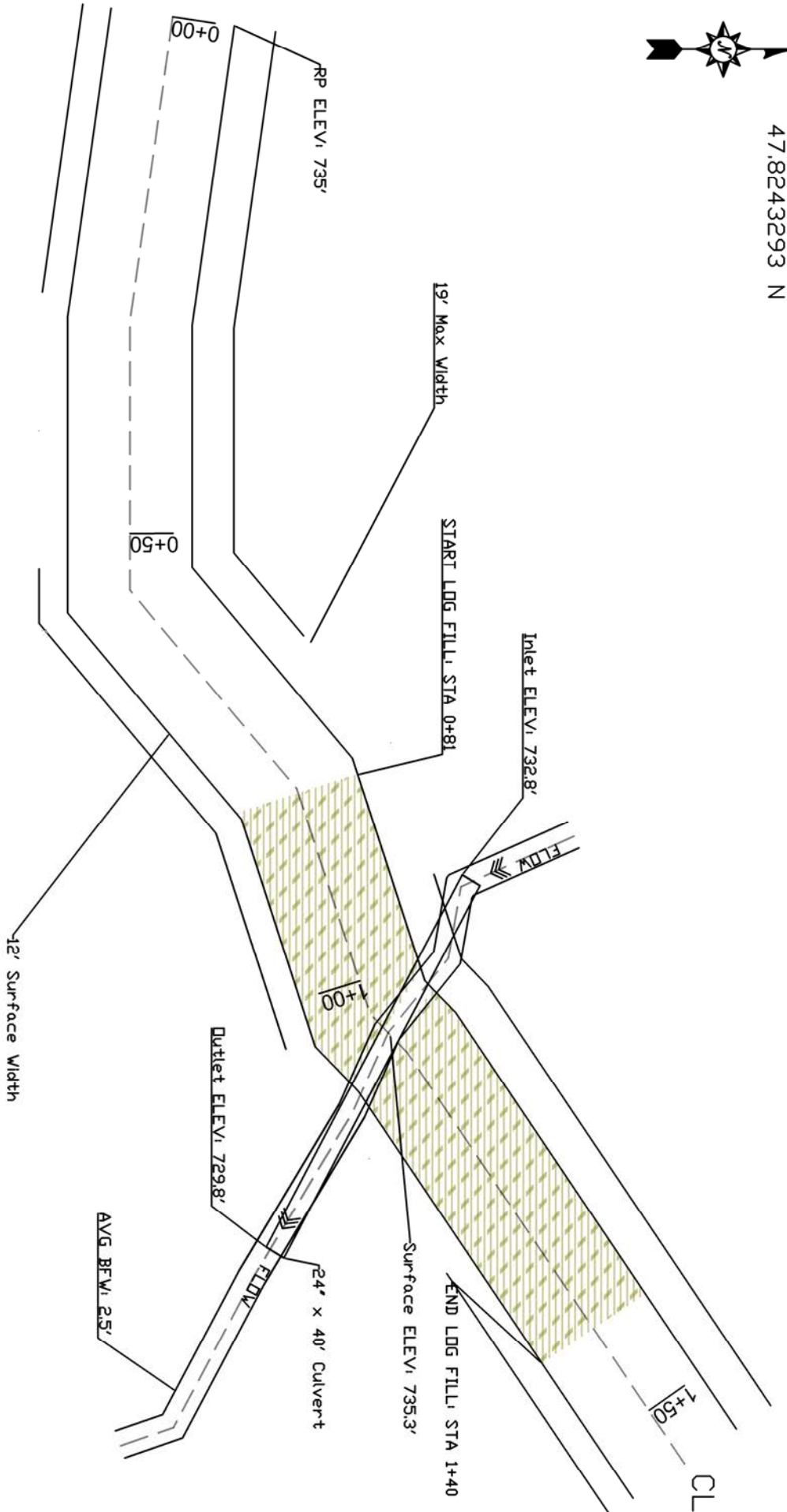
6+80 Spur - Temp Crossing - Profile View

Drawn By: Kyle Knighten
Date: 7/31/24
Sheet 3 of 3

NEW FOX UNIT 3 T27NR12W -
TEMP CROSSING (C1) Section 21

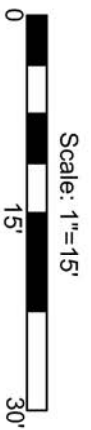


124.1122110 W
47.8243293 N



NOTE: Temporary Pipe Installation. All work must be done between July 1st and September 30th. This includes removal of pipe and channel restoration.

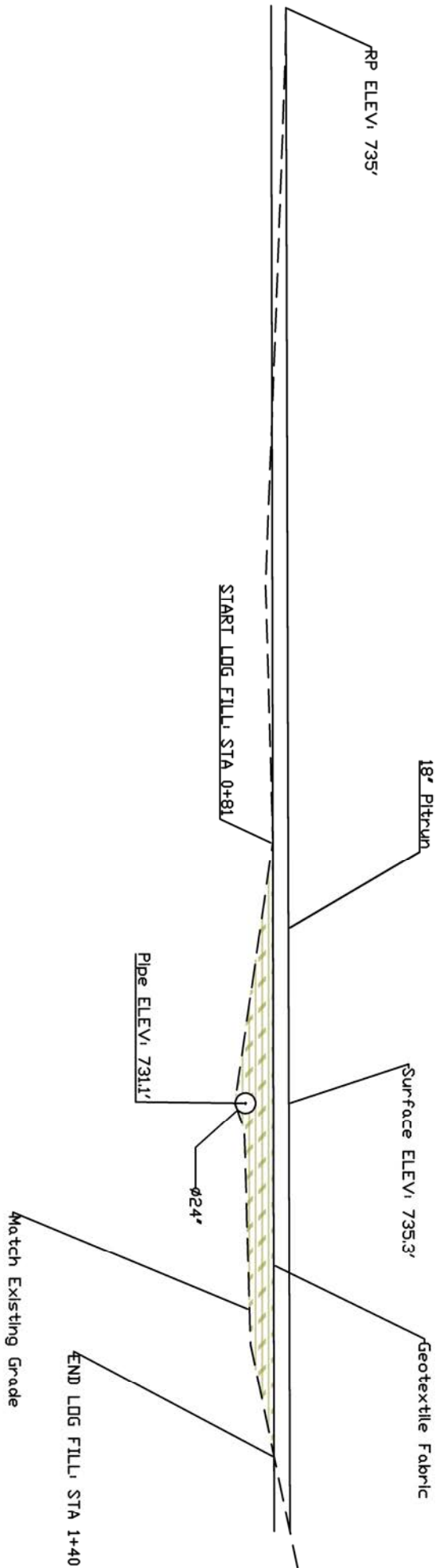
Average Bankfull Width: 2.5'



NEW FOX UNIT 15 T27NR11W -
TEMP CROSSING (C2) Section 22



3+70 Spur - Temp Crossing - Plan View
Drawn By: Kyle Knighten
Date: 7/31/24
Sheet 1 of 3



NOTE: Temporary Pipe Installation. All work must be done between July 1st and September 30th. This includes removal of pipe and channel restoration.

Average Bankfull Width: 25'

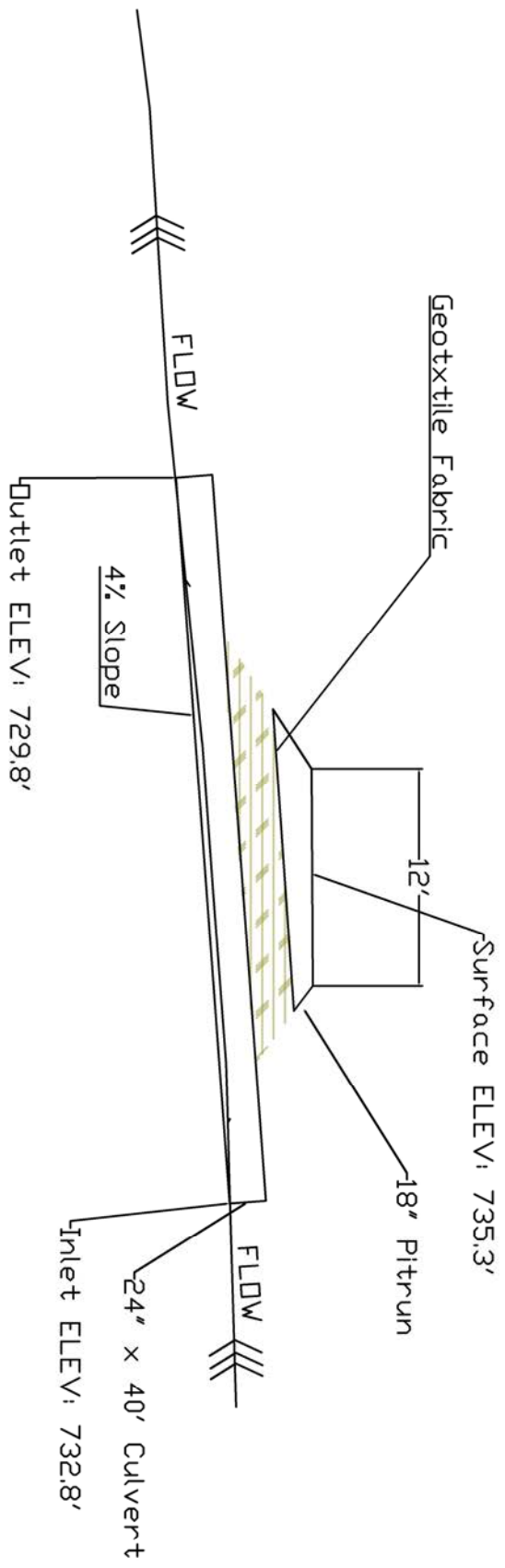
NEW FOX UNIT 15 T27NR11W -
TEMP CROSSING (C2) Section 22



3+70 Spur - Temp Crossing - X-Section

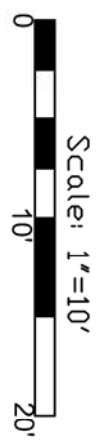
Drawn By: Kyle Knighten
Date: 7/31/24
Sheet 2 of 3

124.1122110 W
47.8243293 N



NOTE: Temporary Pipe Installation. All work must be done between July 1st and September 30th. This includes removal of pipe and channel restoration.

Average Bankfull Width: 2.5'



NEW FOX UNIT 15 T27NR11W -
TEMP CROSSING (C2) Section 22



3+70 Spur - Temp Crossing - Profile View

Drawn By: Kyle Knighten
Date: 7/31/24
Sheet 3 of 3

SUMMARY - Road Development Costs																		
SALE NAME:	New Fox	CONTRACT#:	30-107171	REGION:	Olympic	DISTRICT:	Olympic											
LEGAL DESCRIPTION:	T27R1 I/2W											TOTAL						
ROAD NAME:	6+50 Spur	4+70 Spur	6+80 Spur	1+30 Spur	4+00 Spur	6+51 Spur	9+50 Spur	4+01 Spur	3+70 Spur	2+60 Spur	Rainforest LSI	TOTAL SHEET #2-4						
ROAD TYPE:	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Prehaul							
NUMBER OF STATIONS:	6.5	4.7	6.8	1.3	4.0	6.5	9.5	4.0	3.7	2.3	4.5	53.8						
SLOPE:								12%				12%						
CLEARING AND GRUBBING:	\$904	\$654	\$946	\$181	\$556	\$904	\$1,321	\$556	\$515	\$320	\$6,857	\$6,857						
ROAD BRUSHING:											\$122	\$122						
EXCAVATION AND FILL:	\$735	\$531	\$768	\$147	\$452	\$735	\$1,074	\$678	\$418	\$260	\$5,797	\$5,788						
ROAD GRADING:											\$93	\$93						
DITCH CLEANING/CONSTRUCTION:												\$18,110						
ROCK TOTALS (Cu. Yds.)/ROCK COSTS:																		
Ballast:	8690	8,690	710	410	790	40	330	710	1,040	620	580	180	390	5,800	2,890	CY		
Surface:	6220	6,220	\$6,994	\$3,936	\$9,441	\$584	\$4,821	\$19,113	\$27,851	\$5,493	\$5,708	\$3,184	\$3,842	\$73,994	6,220	CY		
Oversize:	450	450		150	150	150	150							\$5,973	450	CY		
CULVERTS AND FLUMES:			\$1,515	\$1,040	\$2,210	\$2,229	\$2,229	\$1,040	\$1,040	\$1,040				\$6,370	\$8,840			
STRUCTURES:																		
MISC. EXPENSES:	\$38	\$27	\$40	\$8	\$23	\$38	\$56	\$23	\$22	\$13	\$36	\$324	\$10,759					
OVERHEAD:	\$694	\$616	\$1,072	\$335	\$730	\$1,663	\$2,424	\$540	\$616	\$302	\$327	\$9,320	\$21,422					
TOTAL COSTS:	\$9,364	\$8,320	\$14,476	\$4,524	\$9,852	\$22,453	\$32,726	\$7,291	\$8,319	\$4,080	\$4,421	\$125,824	\$285,801					
COST PER STATION:	\$1,441	\$1,770	\$2,129	\$3,480	\$2,463	\$3,454	\$3,445	\$1,823	\$2,248	\$1,774	\$982	\$2,339	\$304,302,769					
MOBILIZATION:			\$14,700															
ROAD DEACTIVATION AND ABANDONMENT COSTS:			\$1,833															
Pre Work			\$80,000															
Road Standard												Const.	Reconst.	Prehaul	Posthaul	TOTAL (All Roads) =		
Total Costs =												\$125,078	\$3,675	\$278,959	\$18,612	\$514,558		
Total Sta. =												49	563	563	563	SALE VOLUME MBF = 10,744		
Cost per Sta. =												\$2,537	\$496	\$33		TOTAL COST PER MBF = \$47,89		
Complied by:												Kyle Knutchen			TOTAL COST PER STATION = \$518,18			
												Date: 9/10/2024						



Department of Public Works
 Jefferson County, Washington
 623 Sheridan Street, Port Townsend, WA 98368 (360) 385-9160



ACCESS PERMIT

Case Number: RAP2024-00029 Road #: 914207 Upper Hoh Rd

Kyle Knighten / Washington State Department of Natural Resour
 411 Tillicum Ln.
 Forks, WA 98331

In accordance with all applicable Revised Code of Washington and amendments thereto, and subject to all the terms, conditions and provisions written or printed below or on any part of this form, permission is hereby granted to:

- 1.) The Applicant may construct an approach for logging operations on Upper Hoh Rd. at mile post 0.047 right.

Conditions

- 1.) The Applicant shall be responsible for the cost to repair any and all damage to the county roadway and rights-of-way, including the integrity of all survey monuments or boundary markers.
- 2.) This approval is for a road approach only and does not constitute approval of other activities within the right of way or on this parcel. Any future permits on this site are subject to review for consistency with applicable codes and ordinances and does not preclude review and conditions which may be placed on future permits.
- 3.) The Applicant shall be responsible for maintaining all vegetation to provide for the adequate sight distance adjacent to this road approach.
- 4.) The Applicant must contact the Public Works Department for a final inspection upon completion of the installation.
- 5.) The grade of the approach shall follow the crown of the road to the ditch, and be such that all surface water shall be directed into a ditch line and not onto the county road. The driveway shall be graded so rock does not spill out onto the roadway.
- 6.) The Applicant shall be responsible for maintaining a stabilized construction entrance, which shall be constructed as follows: 4 inch to 8 inch quarry spalls a minimum of 12 inches deep, a minimum width of 20 feet, a minimum radius of 25 feet, and a minimum length of 100 feet from the county road. The applicant shall also be responsible for immediately removing any material spilled or tracked onto the county road. The access and installation shall not impact the existing grade of the county road shoulder.
- 7.) Applicant must give Jefferson County Public Works office (360-385-9159) a minimum of 7 working days notice prior to beginning work. An on-site pre-construction conference shall be scheduled by the applicant and will include Public Works and the contractor who will be performing the work. Prior to this meeting, any utility locate marks shall be done (Call 811-48 hours before you dig).
- 8.) This permit must be located on site when any work encompassed by the permit is being performed. Failure to do so may result in suspension of all work.
- 9.) A minimum 18 inch diameter culvert is required to accommodate a 20 foot wide driveway with 20-35 foot approach radius is required. If more than one culvert is used, both culverts must be made of the same material and be connected with an approved band.

The applicant, by signing the permit application, has agreed to all of the conditions in the permit including the provisions on the back of this form. This permit shall be void unless the work herein contemplated shall have been completed before June 13, 2025. The Department of Public Works may revoke, amend or cancel this permit or any of the provisions thereof at any time by giving written notice to the grantee. The grantee, upon notification, shall immediately remove all of his equipment and facilities from the County right of way. Any equipment or facilities remaining upon the County right of way 30 days after written notice of cancellation shall be removed by the County at the sole expense of the grantee.

In accepting this permit the grantee, his successors and assigns, agree that any damage or injury done to the property of the grantee or any expense incurred by him through the operation of a contractor, working for the County or any County employee shall be at the sole expense of the grantee, his successors and assigns.

Terry Deff 6-13-2024
 For Jefferson County Date

GENERAL PROVISIONS APPLICABLE TO ALL PERMITS

This permit is subject to all applicable provisions of the Revised Code of Washington and all of the applicable provisions of Washington law. This permit is also subject to all applicable provisions of Chapter 13.56 of the Jefferson County Code, Accommodations of Utilities upon Jefferson County Rights-of-Way, Ordinance No. 01-0103-00; and Ordinance No. 09-0727-92 Regulating Jefferson County Road Approach Permits.

During the progress of the work such barriers and/or traffic control devices shall be erected and maintained as may be necessary or as may be directed by the Public Works Department for the protection of the traveling public; all traffic control devices shall be properly lighted at night and shall comply with all specifications of the Manual of Uniform Traffic Control Devices.

In accepting this permit, the Applicant shall indemnify and hold the County, and its officers, employees, and agents harmless from and shall process and defend at its own expense, including all costs, attorney fees and expenses relating thereto, all claims, demands, or suits at law or equity arising in whole or in part, directly or indirectly, from the Applicant's negligence or breach of any of its obligations under this Agreement; provided that nothing herein shall require a Applicant to indemnify the County against and hold harmless the County from claims, demands of suits based solely upon the conduct of the County, its officers, employees and agents, and; provided further that if the claims or suits are caused by or result from the concurrent negligence of: (a) the Applicant's agents or employees; and, (b) the County, its officers, employees and agents, this indemnity provision with respect to claims or suits based upon such negligence, and/or the costs to the County of defending such claims and suits, etc., shall be valid and enforceable only to the extent of the Applicant's negligence, or the negligence of the Applicant's agents or employees.

Except as herein authorized by the county Public Works Department, no excavation shall be made or obstacle placed within the limits of a county road in such a manner as to interfere with the travel over said road and shall not be within four (4) feet of the edge of the pavement. If the work done under this permit interferes in any way with the drainage of the county road, the grantee shall wholly and at his own expense make such provision as the County Engineer may direct to take care of said drainage. On completion of said work all rubbish and debris shall be immediately removed and the roadway and roadside shall be left neat and presentable and satisfactory to the County Engineer.

All of the work herein contemplated shall be under the supervision of the County Engineer and the entire expense of said supervision shall be borne by the grantee to whom this permit is issued, or his successors and assigns. The Department of Public Works hereby reserves the right to order the change of location or the removal of any structure or structures authorized by this permit at any time, said change or removal to be made at the sole expense of the grantee to whom this permit is issued, or his successors and assigns.

All such changes, reconstruction or relocation by the grantee shall be done in such a manner as will cause the least interference with any of the County's work and the County of Jefferson shall in no way be held liable for any damage to the grantee by reason of any such work by the County of Jefferson, its agents or representative, or by the exercise of any rights by the County upon roads, streets, public places or structures in question.

This permit or privilege shall not be deemed or held to be an exclusive one and shall not prohibit the County from granting other permits or franchise rights of like or other nature to other public or private utilities, nor shall it prevent the County from using any of its roads, streets, or public places, or affect its right to full supervision and control over all or any part of them, none of which is hereby surrendered.

Federal Endangered Species Act Disclaimer:

Jefferson County makes no assurances to the applicant that the actions undertaken because this permit has been issued will not violate 16 U.S.C section 1531 et seq. (the federal Endangered Species Act of 1973 or ESA). The applicant acknowledges that they are solely responsible for adhering to and complying with the ESA.

Cultural Resources Disclaimer:

Jefferson County makes no assurances to the applicant that the actions undertaken because this permit has been issued will not violate federal, state, or local cultural resources laws and regulations, including but not limited to 54 U.S.C. section 3001 et seq. (the federal National Historic Preservation Act of 1966), Chapter 27.34 RCW (Historic Preservation), Chapter 27.44 RCW (Indian Graves and Records), the Washington State Governors Executive Order 21-02, or any applicable treaty between the United States and any Indian tribe. The applicant acknowledges that they are solely responsible for adhering to and complying with all federal, state, or local cultural resources laws and regulations, including all applicable treaties between the United States and any Indian tribe.

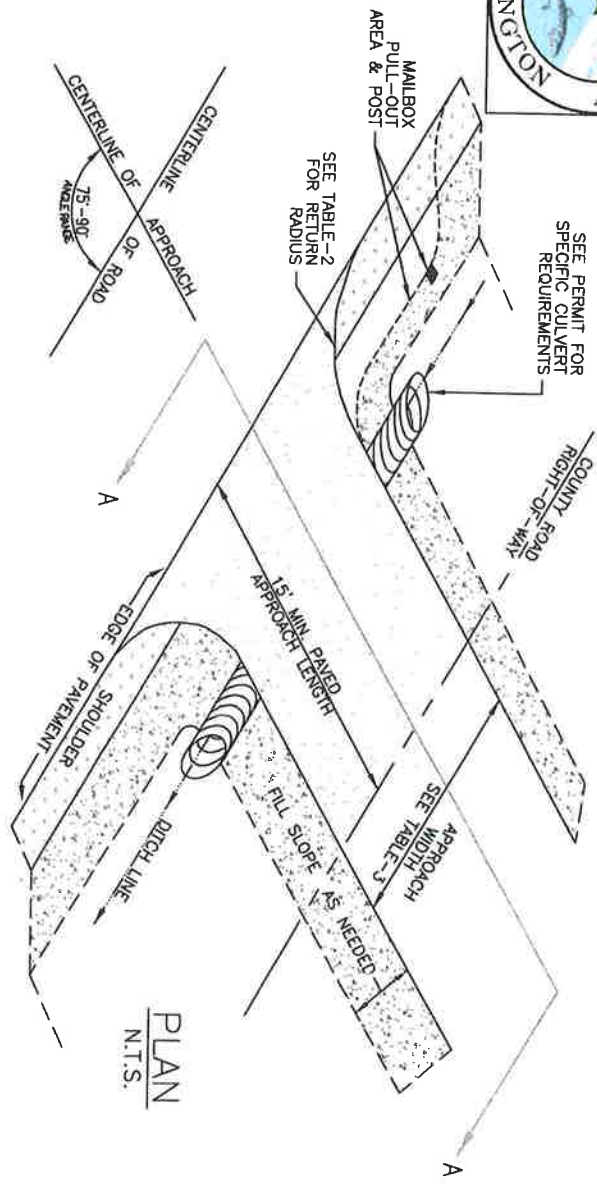


TABLE-1

SIGHT DISTANCE REQUIREMENTS	MINIMUM DISTANCE
25 MPH	155 FT.
30 MPH	200 FT.
35 MPH	250 FT.
40 MPH	305 FT.
45 MPH	360 FT.
50 MPH	425 FT.
55 MPH	495 FT.

TABLE-2

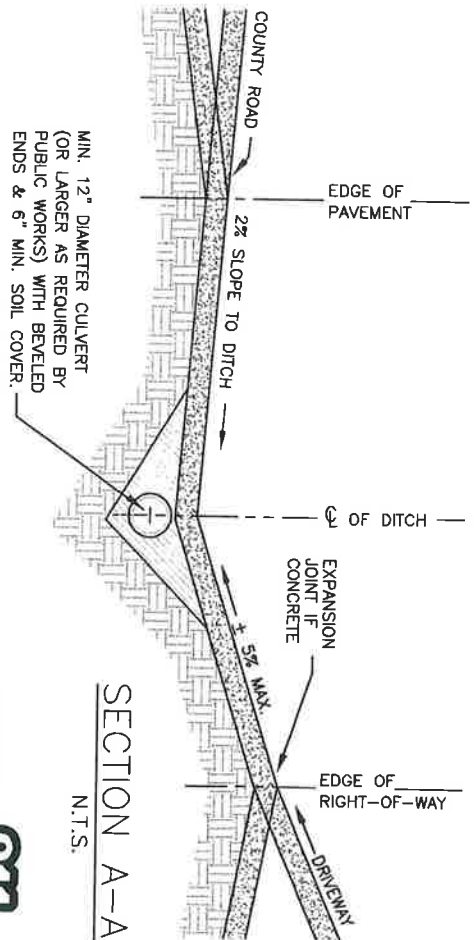
RETURN RADIUS	
RESIDENTIAL APPROACH	10'
MINOR COLLECTOR RD.	20'
MAJOR COLLECTOR RD.	20'
MAJOR APPROACH	35'

TABLE-3

APPROACH WIDTH	
RESIDENTIAL APPROACH	10' MIN. / 16' MAX.
MAJOR APPROACH	20' MIN. / 36' MAX.

NOTE: MAJOR APPROACHES INCLUDE ALL COMMERCIAL, INDUSTRIAL, AND/OR PRIVATE ROADS OR SHARED DRIVEWAYS, SERVING MULTIPLE PARCELS.

- NOTES:
- CONDITIONS PROVIDED IN THE ROAD APPROACH PERMIT WILL GOVERN INSTALLATION.
 - THE FOLLOWING ROAD APPROACHES ARE REQUIRED TO BE PAVED.
 - COMMERCIAL (& INDUSTRIAL) ROAD APPROACHES WITH AN ADT OF ≥1000.
 - COUNTY ROAD APPROACHES FOR NEW PRIVATE ROADS AND/OR SHARED DRIVEWAYS SERVING MULTIPLE PARCELS.
 - COUNTY ROAD APPROACHES FOR SHORT PLAT AND LONG PLAT SUBDIVISIONS.
 - PAVING IS NOT REQUIRED FOR ROAD APPROACHES CONNECTING TO GRAVEL ROADS.
 - PAVING REQUIREMENT: 2" MIN. (COMPACTED DEPTH) HOT MIX ASPHALT (HMA) OVER 4" MIN. (COMPACTED DEPTH) CRUSHED SURFACING, OR 6" CLASS 3000 CONCRETE.
 - GRAVEL REQUIREMENT: 3" MIN. CRUSHED SURFACING.
 - APPROACH SHALL BE AT 90 DEGREES TO COUNTY ROAD CENTERLINE. ANGLE MAY VARY FROM 90 DEGREES TO 75 DEGREES WITH PUBLIC WORKS APPROVAL.
 - CULVERT PIPE MUST BE 12" Ø MIN. CORRUGATED METAL OR DUAL WALL CORRUGATED HDPE, WITH BEVELED ENDS.
 - CULVERT LENGTH TO BE DETERMINED BY APPROACH WIDTH, RETURN RADIUS, AND DEPTH OF DITCH. CULVERT SHALL NOT EXCEED THE LENGTH NECESSARY TO EXTEND BETWEEN TOE OF FILL AT CENTERLINE OF THE DITCH ON EACH SIDE OF THE ROAD APPROACH.
 - THE GRADE OF THE APPROACH SHALL FOLLOW THE CROWN OF THE COUNTY ROAD SUCH THAT NO SURFACE STORMWATER IS DIRECTED ONTO THE COUNTY ROAD.
 - REQUIRED MINIMUM SIGHT DISTANCE SHALL BE PER TABLE-1. MAINTENANCE OF THE SIGHT TRIANGLE IS THE RESPONSIBILITY OF THE PROPERTY OWNER. SEE JEFFERSON COUNTY PUBLIC WORKS WEBSITE FOR MAINTENANCE/REPAIR INFORMATION.
 - SEE JEFFERSON COUNTY PUBLIC WORKS WEBSITE FOR MAILBOX STANDARDS AND INSTALLATION REQUIREMENTS.



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Department of Public Works
 Jefferson County, Washington
 623 Sheridan Street, Port Townsend, WA 98368 (360) 385-9160



ACCESS PERMIT

Case Number: RAP2024-00035 Road #: 914207 Upper Hoh Rd

Milepost: 2.9 on BOTH sides of the road

Kyle Knighten / Washington State Department of Natural Resour
 411 Tillicum Ln.
 Forks, WA 98331

In accordance with all applicable Revised Code of Washington and amendments thereto, and subject to all the terms, conditions and provisions written or printed below or on any part of this form, permission is hereby granted to:

- 1.) The Applicant may construct two approaches for logging operations on Upper Hoh Rd. at mile post 2.899 right and mile post 2.899 left.

Conditions

- 1.) Approach culverts are not necessary at these locations at this time. Each access must accommodate a 20 foot wide driveway with a 20-35 foot approach radius.
- 2.) This approval is for a road approach only and does not constitute approval of other activities within the right of way or on this parcel. Any future permits on this site are subject to review for consistency with applicable codes and ordinances and does not preclude review and conditions which may be placed on future permits.
- 3.) The Applicant shall be responsible for maintaining all vegetation to provide for the adequate sight distance adjacent to this road approach.
- 4.) The Applicant shall be responsible for maintaining a stabilized construction entrance, which shall be constructed as follows: 4 inch to 8 inch quarry spalls a minimum of 12 inches deep, a minimum width of 20 feet, a minimum radius of 25 feet, and a minimum length of 100 feet from the county road. The Applicant shall also be responsible for immediately removing any material spilled or tracked onto the county road. The access and installation shall not impact the existing grade of the county road shoulder.
- 5.) The Applicant shall be responsible for the cost to repair any and all damage to the county roadway and rights-of-way, including the integrity of all survey monuments or boundary markers.
- 6.) The Applicant must contact the Public Works Department for a final inspection upon completion of the installation.
- 7.) The grade of the approach shall follow the crown of the road and be such that no surface water is directed into a ditch line and not onto the county road.
- 8.) Applicant must give Jefferson County Public Works office (360-385-9159) a minimum of 7 working days notice prior to beginning work. An on-site pre-construction conference shall be scheduled by the applicant and will include Public Works and the contractor who will be performing the work. Prior to this meeting, any utility locate marks shall be done (Call 811-48 hours before you dig).
- 9.) This permit must be located on site when any work encompassed by the permit is being performed. Failure to do so may result in suspension of all work.

The applicant, by signing the permit application, has agreed to all of the conditions in the permit including the provisions on the back of this form. This permit shall be void unless the work herein contemplated shall have been completed before June 24, 2025. The Department of Public Works may revoke, amend or cancel this permit or any of the provisions thereof at any time by giving written notice to the grantee. The grantee, upon notification, shall immediately remove all of his equipment and facilities from the County right of way. Any equipment or facilities remaining upon the County right of way 30 days after written notice of cancellation shall be removed by the County at the sole expense of the grantee.

In accepting this permit the grantee, his successors and assigns, agree that any damage or injury done to the property of the grantee or any expense incurred by him through the operation of a contractor, working for the County or any County employee shall be at the sole expense of the grantee, his successors and assigns.

[Signature] 6-24-2024
 For Jefferson County Date

GENERAL PROVISIONS APPLICABLE TO ALL PERMITS

This permit is subject to all applicable provisions of the Revised Code of Washington and all of the applicable provisions of Washington law. This permit is also subject to all applicable provisions of Chapter 13.56 of the Jefferson County Code, Accommodations of Utilities upon Jefferson County Rights-of-Way, Ordinance No. 01-0103-00; and Ordinance No. 09-0727-92 Regulating Jefferson County Road Approach Permits.

During the progress of the work such barriers and/or traffic control devices shall be erected and maintained as may be necessary or as may be directed by the Public Works Department for the protection of the traveling public; all traffic control devices shall be properly lighted at night and shall comply with all specifications of the Manual of Uniform Traffic Control Devices.

In accepting this permit, the Applicant shall indemnify and hold the County, and its officers, employees, and agents harmless from and shall process and defend at its own expense, including all costs, attorney fees and expenses relating thereto, all claims, demands, or suits at law or equity arising in whole or in part, directly or indirectly, from the Applicant's negligence or breach of any of its obligations under this Agreement; provided that nothing herein shall require a Applicant to indemnify the County against and hold harmless the County from claims, demands of suits based solely upon the conduct of the County, its officers, employees and agents, and; provided further that if the claims or suits are caused by or result from the concurrent negligence of: (a) the Applicant's agents or employees; and, (b) the County, its officers, employees and agents, this indemnity provision with respect to claims or suits based upon such negligence, and/or the costs to the County of defending such claims and suits, etc., shall be valid and enforceable only to the extent of the Applicant's negligence, or the negligence of the Applicant's agents or employees.

Except as herein authorized by the county Public Works Department, no excavation shall be made or obstacle placed within the limits of a county road in such a manner as to interfere with the travel over said road and shall not be within four (4) feet of the edge of the pavement. If the work done under this permit interferes in any way with the drainage of the county road, the grantee shall wholly and at his own expense make such provision as the County Engineer may direct to take care of said drainage. On completion of said work all rubbish and debris shall be immediately removed and the roadway and roadside shall be left neat and presentable and satisfactory to the County Engineer.

All of the work herein contemplated shall be under the supervision of the County Engineer and the entire expense of said supervision shall be borne by the grantee to whom this permit is issued, or his successors and assigns. The Department of Public Works hereby reserves the right to order the change of location or the removal of any structure or structures authorized by this permit at any time, said change or removal to be made at the sole expense of the grantee to whom this permit is issued, or his successors and assigns.

All such changes, reconstruction or relocation by the grantee shall be done in such a manner as will cause the least interference with any of the County's work and the County of Jefferson shall in no way be held liable for any damage to the grantee by reason of any such work by the County of Jefferson, its agents or representative, or by the exercise of any rights by the County upon roads, streets, public places or structures in question.

This permit or privilege shall not be deemed or held to be an exclusive one and shall not prohibit the County from granting other permits or franchise rights of like or other nature to other public or private utilities, nor shall it prevent the County from using any of its roads, streets, or public places, or affect its right to full supervision and control over all or any part of them, none of which is hereby surrendered.

Federal Endangered Species Act Disclaimer:

Jefferson County makes no assurances to the applicant that the actions undertaken because this permit has been issued will not violate 16 U.S.C section 1531 et seq. (the federal Endangered Species Act of 1973 or ESA). The applicant acknowledges that they are solely responsible for adhering to and complying with the ESA.

Cultural Resources Disclaimer:

Jefferson County makes no assurances to the applicant that the actions undertaken because this permit has been issued will not violate federal, state, or local cultural resources laws and regulations, including but not limited to 54 U.S.C. section 3001 et seq. (the federal National Historic Preservation Act of 1966), Chapter 27.34 RCW (Historic Preservation), Chapter 27.44 RCW (Indian Graves and Records), the Washington State Governors Executive Order 21-02, or any applicable treaty between the United States and any Indian tribe. The applicant acknowledges that they are solely responsible for adhering to and complying with all federal, state, or local cultural resources laws and regulations, including all applicable treaties between the United States and any Indian tribe.

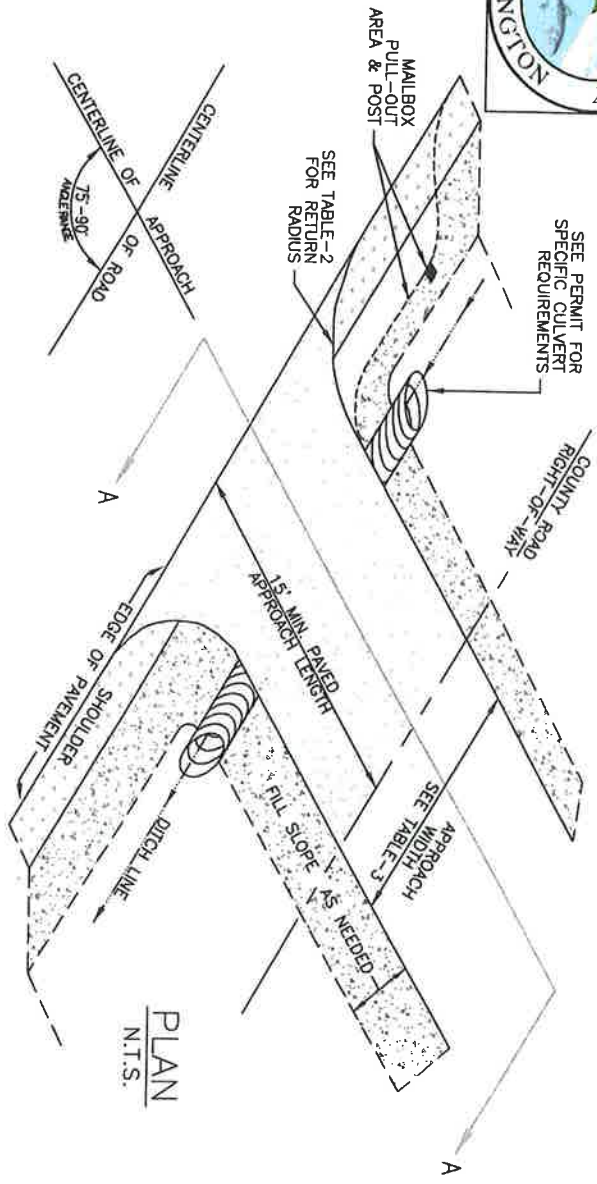


TABLE-1

SIGHT DISTANCE REQUIREMENTS	POSTED SPEED	MINIMUM DISTANCE
25 MPH	155 FT.	30 FT.
30 MPH	200 FT.	35 FT.
35 MPH	250 FT.	40 FT.
40 MPH	305 FT.	45 FT.
45 MPH	360 FT.	50 FT.
50 MPH	420 FT.	55 FT.
55 MPH	495 FT.	

TABLE-2

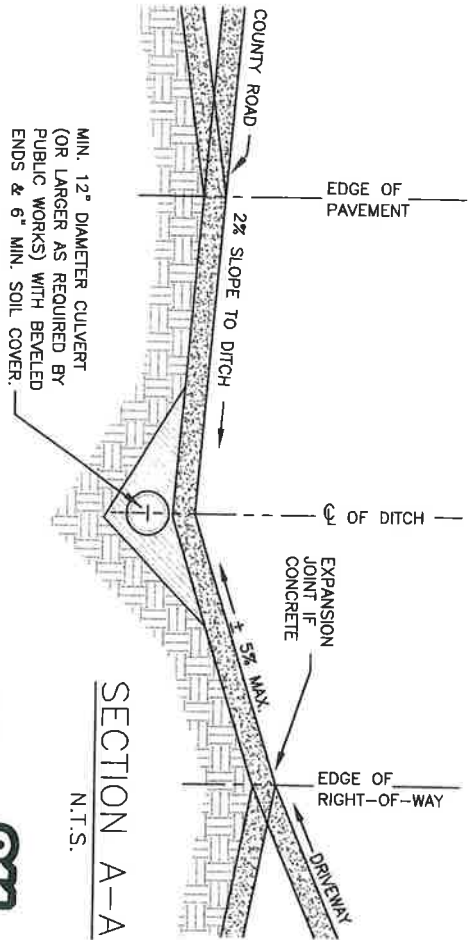
RETURN RADIUS	APPROACH
RESIDENTIAL APPROACH	10'
LOCAL ACCESS RD. APPROACH	20'
MINOR COLLECTOR RD. APPROACH	20'
MAJOR COLLECTOR RD. APPROACH	20'
MAJOR APPROACH	35'

TABLE-3

APPROACH WIDTH	RESIDENTIAL APPROACH	MAJOR APPROACH
10' MIN. / 16' MAX.	20' MIN. / 36' MAX.	

NOTE: MAJOR APPROACHES INCLUDE ALL COMMERCIAL, INDUSTRIAL, AND/OR PRIVATE ROADS OR SHARED DRIVEWAYS, SERVING MULTIPLE PARCELS.

- NOTES:
- CONDITIONS PROVIDED IN THE ROAD APPROACH PERMIT WILL GOVERN INSTALLATION.
 - THE FOLLOWING ROAD APPROACHES ARE REQUIRED TO BE PAVED:
 - COMMERCIAL (& INDUSTRIAL) ROAD APPROACHES WITH AN ADT OF ≥1000.
 - COUNTY ROAD APPROACHES WITH A PROPOSED ADT OF ≥30.
 - DRIVEWAYS SERVING MULTIPLE PARCELS.
 - COUNTY ROAD APPROACHES FOR SHORT PLAT AND LONG PLAT SUBDIVISIONS.
 - PAVING IS NOT REQUIRED FOR ROAD APPROACHES CONNECTING TO GRAVEL ROADS.
 - PAVING REQUIREMENT: 2" MIN. (COMPACTED DEPTH) HOT MIX ASPHALT (HMA) OVER 4" MIN. (COMPACTED DEPTH) CRUSHED SURFACING, OR 6" CLASS 3000 CONCRETE.
 - GRAVEL REQUIREMENT: 3" MIN. CRUSHED SURFACING.
 - APPROACH SHALL BE AT 90 DEGREES TO COUNTY ROAD CENTERLINE. ANGLE MAY VARY FROM 90 DEGREES TO 75 DEGREES WITH PUBLIC WORKS APPROVAL.
 - CULVERT PIPE MUST BE 12" Ø MIN. CORRUGATED METAL OR DUAL WALL CORRUGATED HOPE, WITH BEVELED ENDS.
 - CULVERT LENGTH TO BE DETERMINED BY APPROACH WIDTH, RETURN RADIUS, AND DEPTH OF DITCH. CULVERT SHALL NOT EXCEED THE LENGTH NECESSARY TO EXTEND BETWEEN TOE OF FILL AT CENTERLINE OF THE DITCH ON EACH SIDE OF THE ROAD APPROACH.
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FISH STREAM WORK PROVISIONS

TIMING LIMITATIONS: The fish culvert project may begin July 1 and shall be completed by September 30.

1. Work shall conform to plans and specifications in the road plan.
2. Prior to the commencement of in-stream work, the Purchaser shall isolate the work area in a manner that fish cannot enter the work area, capture and safely move fish and other fish life from the work area. The Purchaser shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water downstream of the work area.

TEMPORARY STREAM FLOW BYPASS

3. All in-stream work shall be conducted in the dry or in isolation from the stream flow by the installation of a bypass flume/pipe or by pumping the flow around the work area, back into the stream below the work area. Waste water pumped from within the work area shall terminate on the forest floor, sufficient distance from the stream to filter sediment prior to entering the stream.
4. The temporary bypass to divert flow around the work area shall be in place prior to initiation of other work in the wetted perimeter.
5. A sandbag revetment or similar device shall be installed at the bypass inlet to divert the entire flow through the bypass.
6. The bypass shall be of sufficient size to pass all flows and debris for the duration of the project.
7. If a pump is used for diverting water from the stream where fish are present, as per RCW 77.57.010 and 77.57.070, the pump intake shall be equipped with a fish guard to prevent passage of fish into the diversion pump. The pump intake shall be screened with 1/8 inch mesh to prevent fish from entering the pump. Velocity through the screened intake shall be less than 0.4 feet per second. Screens shall be maintained to prevent injury or entrapment of juvenile fish.

WATER QUALITY

8. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

COMPACTION LIST

Road	Stations	Type	Max Depth Per Lift (inches)	Equipment Type	Minimum Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
Pre-haul	All	Culvert Backfill	8"	Jumping Jack		3	
Pre-haul	All	Rock Lifts	6"	Vibratory Smooth Drum	6,000	3	3
Pre-haul	All	Pre-haul Surface		Vibratory Smooth Drum	6,000	3	3
Construction	All	Subgrade (Except Puncheon)	6"	Vibratory Smooth Drum	6,000	2	3
Construction	All	Culvert Backfill	8"	Jumping Jack		3	
Construction	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3
Reconstruction	All	Subgrade (Except Puncheon)	6"	Vibratory Smooth Drum	6,000	2	3
Reconstruction	All	Culvert Backfill	8"	Jumping Jack		3	
Reconstruction	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3
Post-haul Maintenance	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3

Typical Type Ns, Np Culvert Installation Detail Sheet.

-Water shall be diverted away from the work site before any "in stream" work begins, and shall continue until culvert installation is complete.

-Culvert lay shall match stream gradient up to 5%.

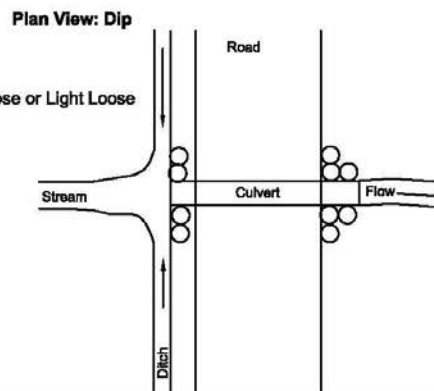
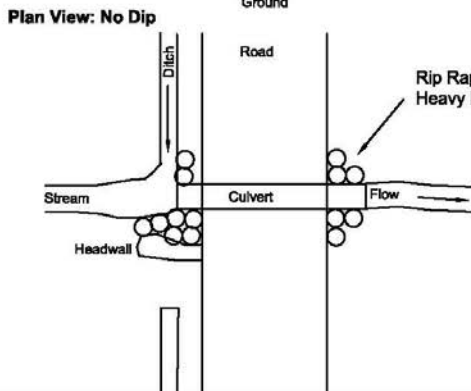
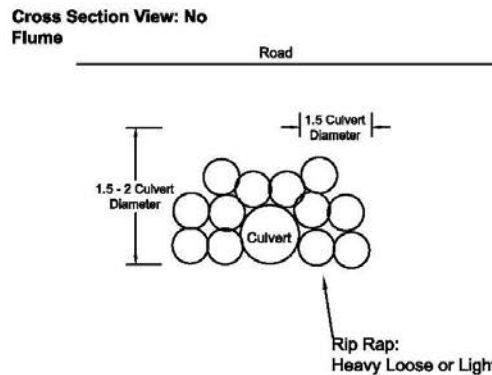
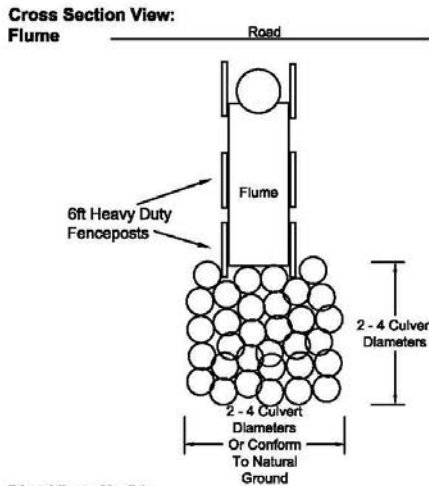
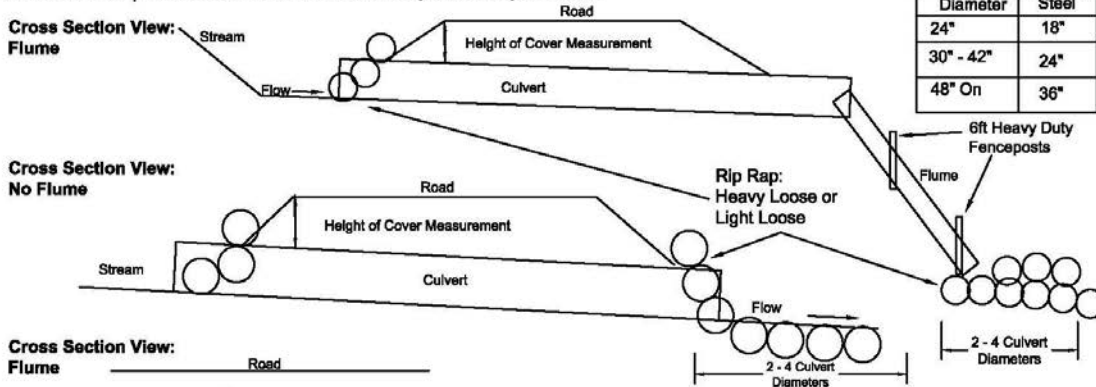
-Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.

-Rip rap shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.

-Rip rap shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume rip rap shall be placed along the fill at the outlet, unless there is stream drop or it is called for in the Road Plan, at which point it will be installed as an energy dissipater at the end of the culvert as specified in this Detail. All rip rap distance to be determined by the Contract Administrator or the District Engineer.

-Backfill compaction shall be achieved using a jumping jack, walk behind vibratory roller, or plate compactor on lifts not to exceed 8in. 3 complete passes per lift is required for compaction. Backfill shall be placed and compacted evenly on both sides of the culvert. Care shall be taken to ensure adequate compaction of backfill material under the haunches of the pipe. Excavation trench width shall be at least culvert diameter plus 3 times the width of the compactor footprint used.

Culvert Minimum Cover		
Diameter	Steel	Plastic
24"	18"	24"
30" - 42"	24"	24"
48" On	36"	36"

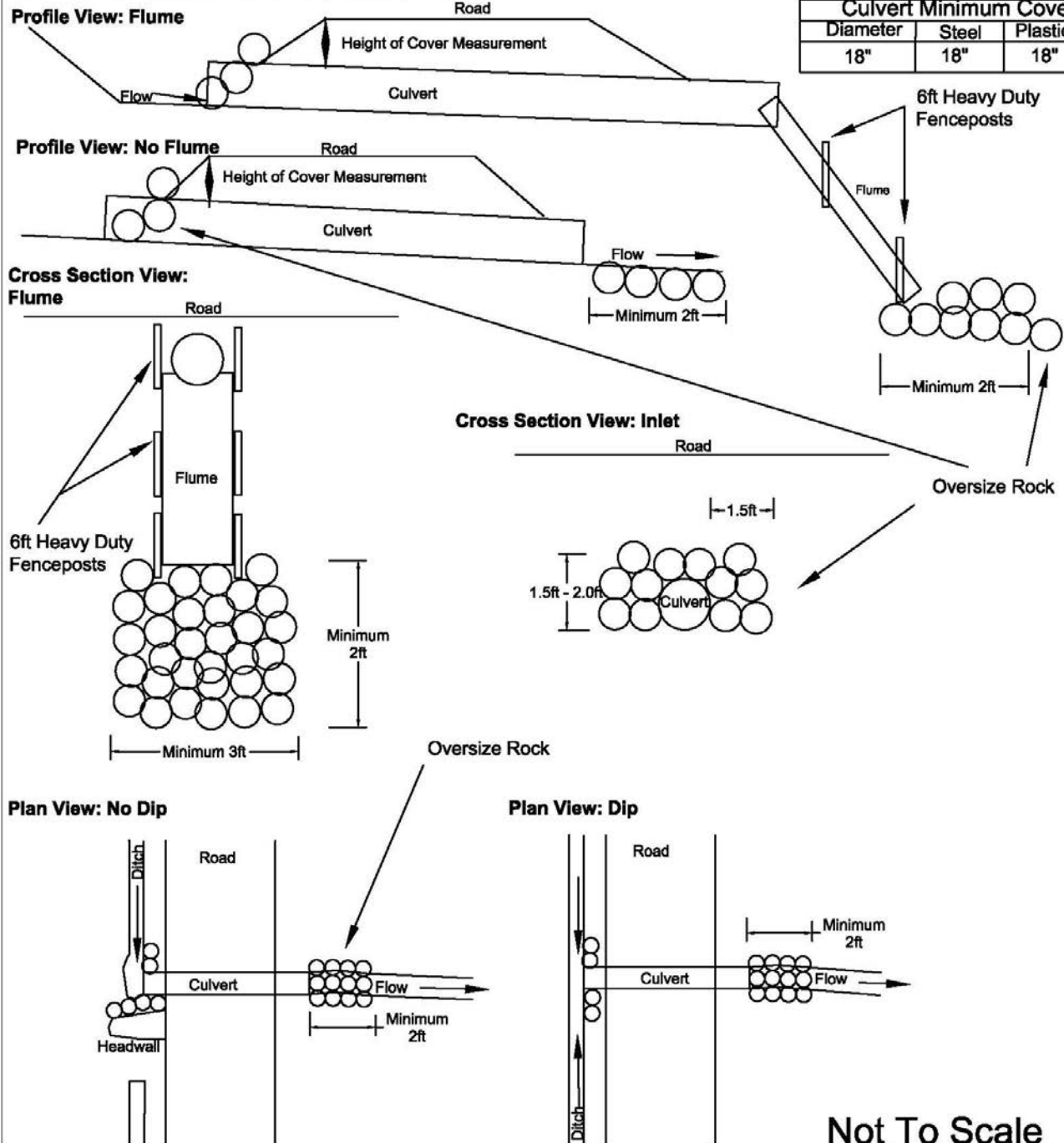


Not To Scale

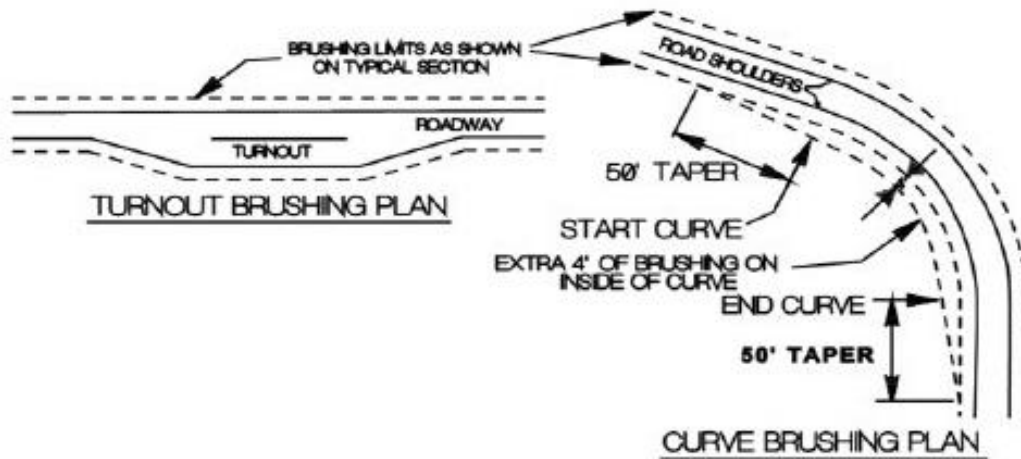
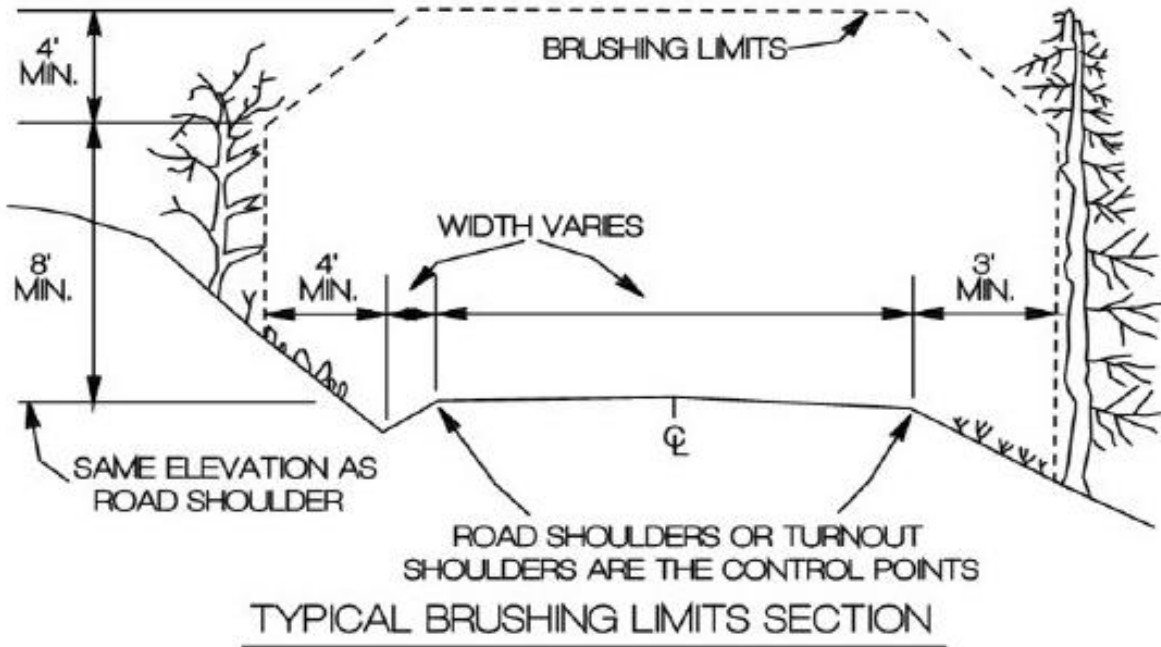
Typical Cross Drain Culvert Installation Detail Sheet

- Culvert lay shall not exceed 10%.
- Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.
- Oversize shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.
- Oversize shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume oversize shall be placed at the outlet as an energy dissipater as specified in this Detail. All oversize distance to be determined by the Contract Administrator.
- Backfill compaction for installations on existing roads shall be achieved using a jumping jack, or plate compactor on lifts not to exceed 8in. 3 complete passes per lift is required for compaction. Backfill shall be placed and compacted evenly on both sides of the culvert. Care shall be taken to ensure adequate compaction of backfill material under the haunches of the pipe. Excavation trench width shall be at least culvert diameter plus at least the width of the compactor footprint used..

Culvert Minimum Cover		
Diameter	Steel	Plastic
18"	18"	18"

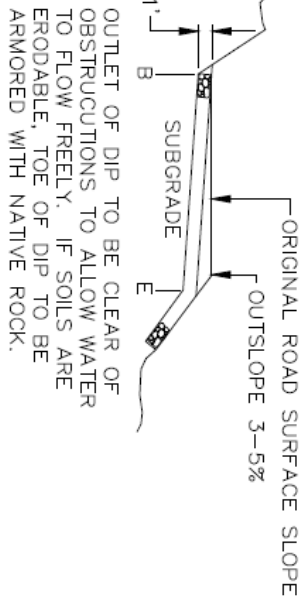
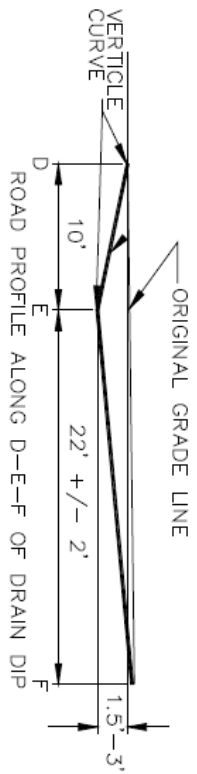
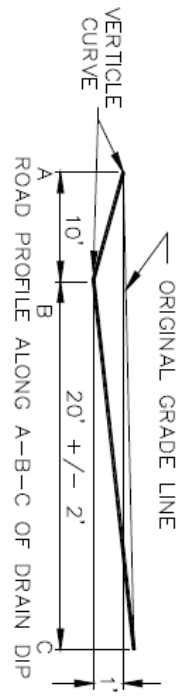


BRUSHING DETAIL

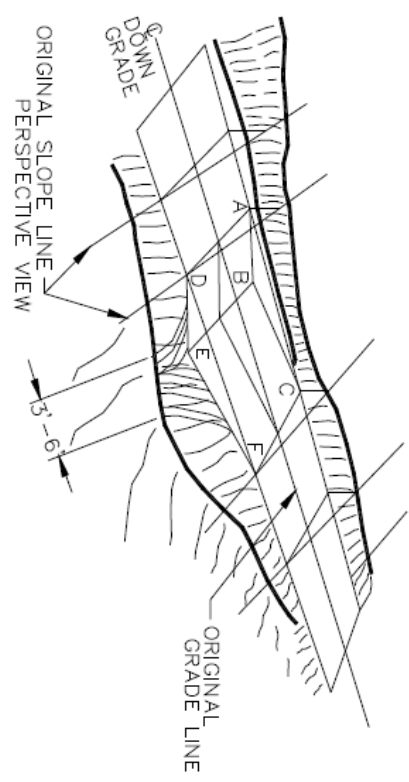


- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8' OF THE GROUND, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.
- 2) ALL BRUSH, TREES, LIMBS, ETC. SHALL BE REMOVED FROM THE ROAD SURFACE.
- 3) ALL BRUSH, TREES, LIMBS, ETC. THAT MAY RESTRICT THE FLOW OF WATER SHALL BE REMOVED FROM THE DITCH LINE.
- 4) ALL DEBRIS THAT MAY ROLL OR MIGRATE INTO THE DITCHLINE SHALL BE REMOVED.

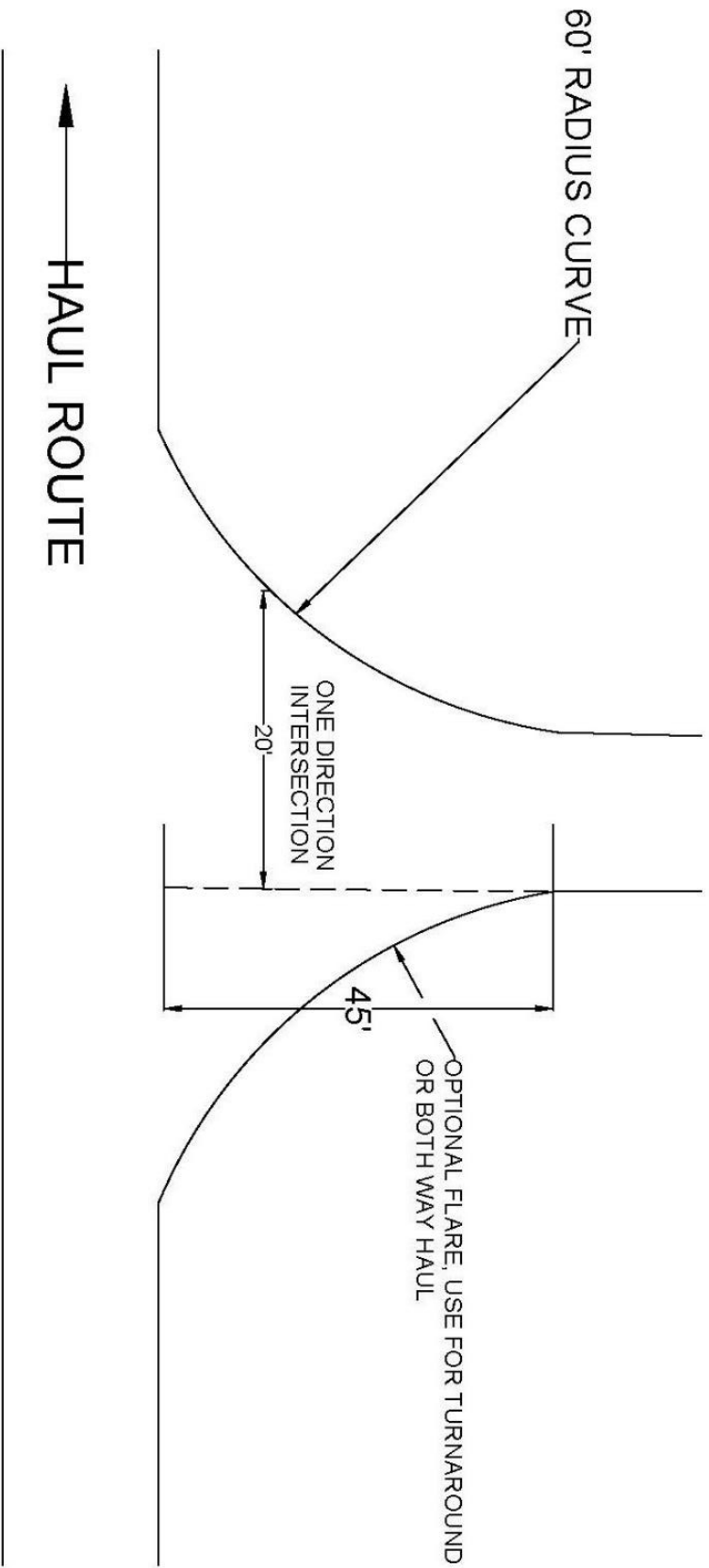
ROLLING DIP DETAIL



NOTE: PLAN OF DIP SHOWN IS FOR OUTSLOPED ROLLING DIP. DIPS MAY BE EITHER INSLOPED OR OUTSLOPED. WHEN INSLOPED, DIPS SHALL DRAIN FREELY INTO DITCHES OR CULVERT INLETS. WHEN OUTSLOPED, THEY SHALL DRAIN FREELY ONTO NATURAL GROUND. WHERE SOILS ARE ERODABLE, OUTLET SHALL BE ARMORED WITH NATIVE ROCK. THE MINIMUM CROSS GRADE FROM "B" TO "E" IS 4% GREATER THAN THE ROAD SURFACE SLOPE. SKEW LINE B-E TO FIT LOW POINT IN DRAW, IF LOCATED IN NATURAL DRAIN.

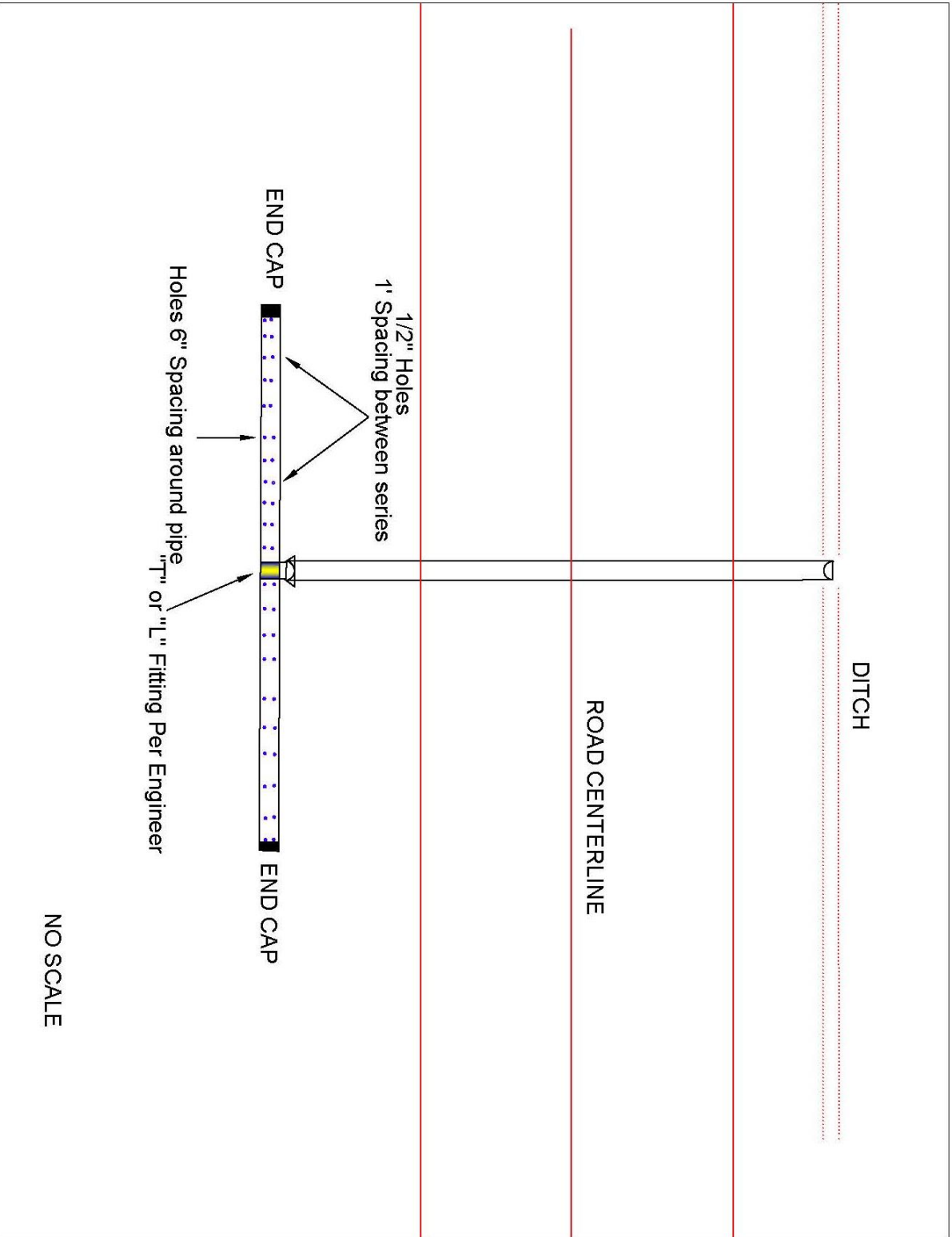


TYPICAL INTERSECTION



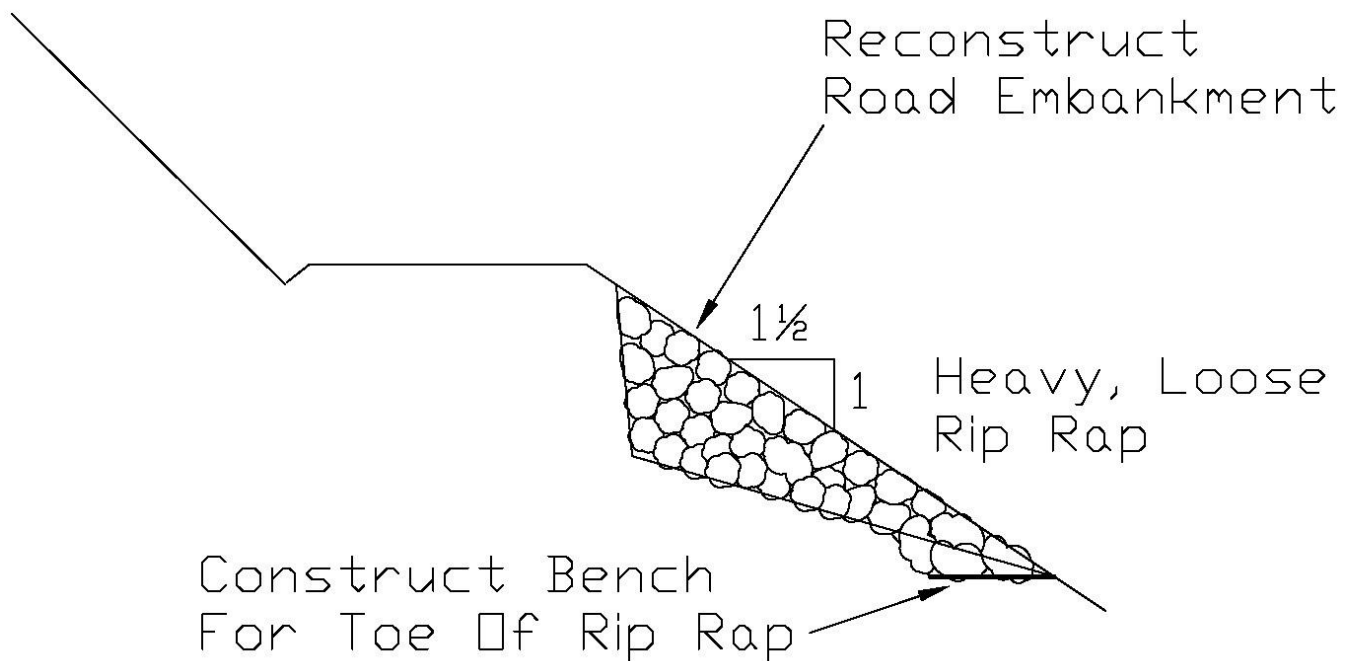
NOT TO SCALE

TYPICAL PERFORATED PIPE INSTALLATION



Typical Embankment Key Detail

Except where designed otherwise, road reconstruction with rip rap keyed toe and embankment.



FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Cuts and Fills

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

Surface

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

Drainage

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

Preventative Maintenance

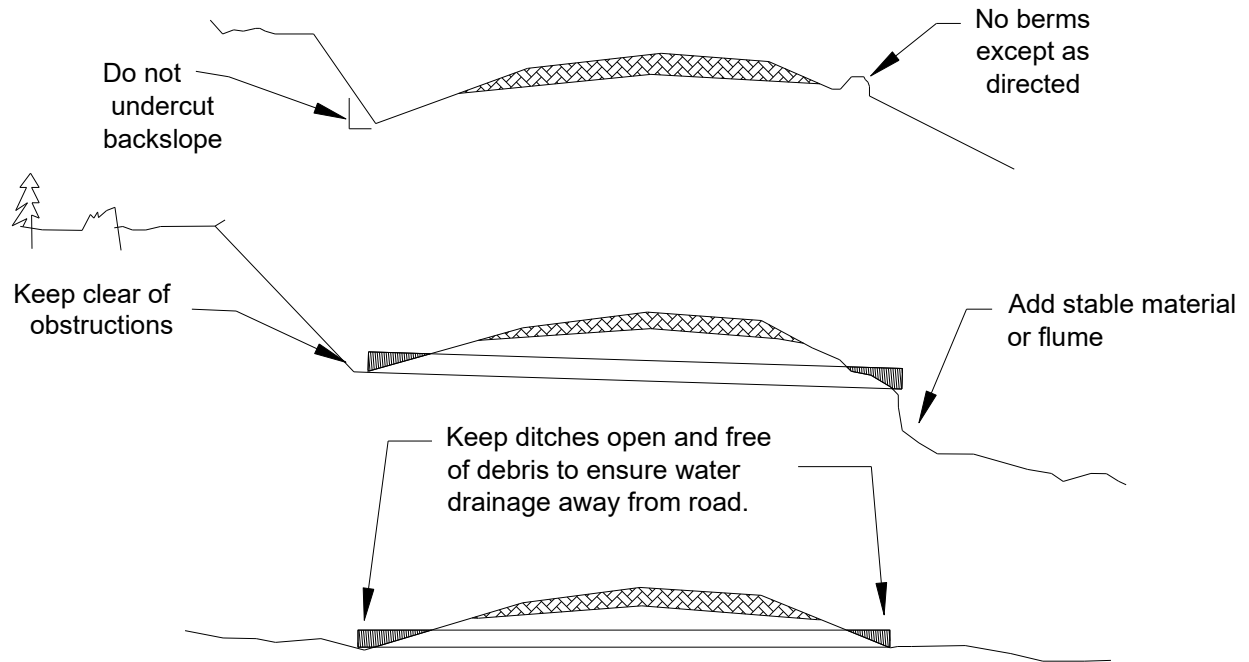
Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

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

Debris

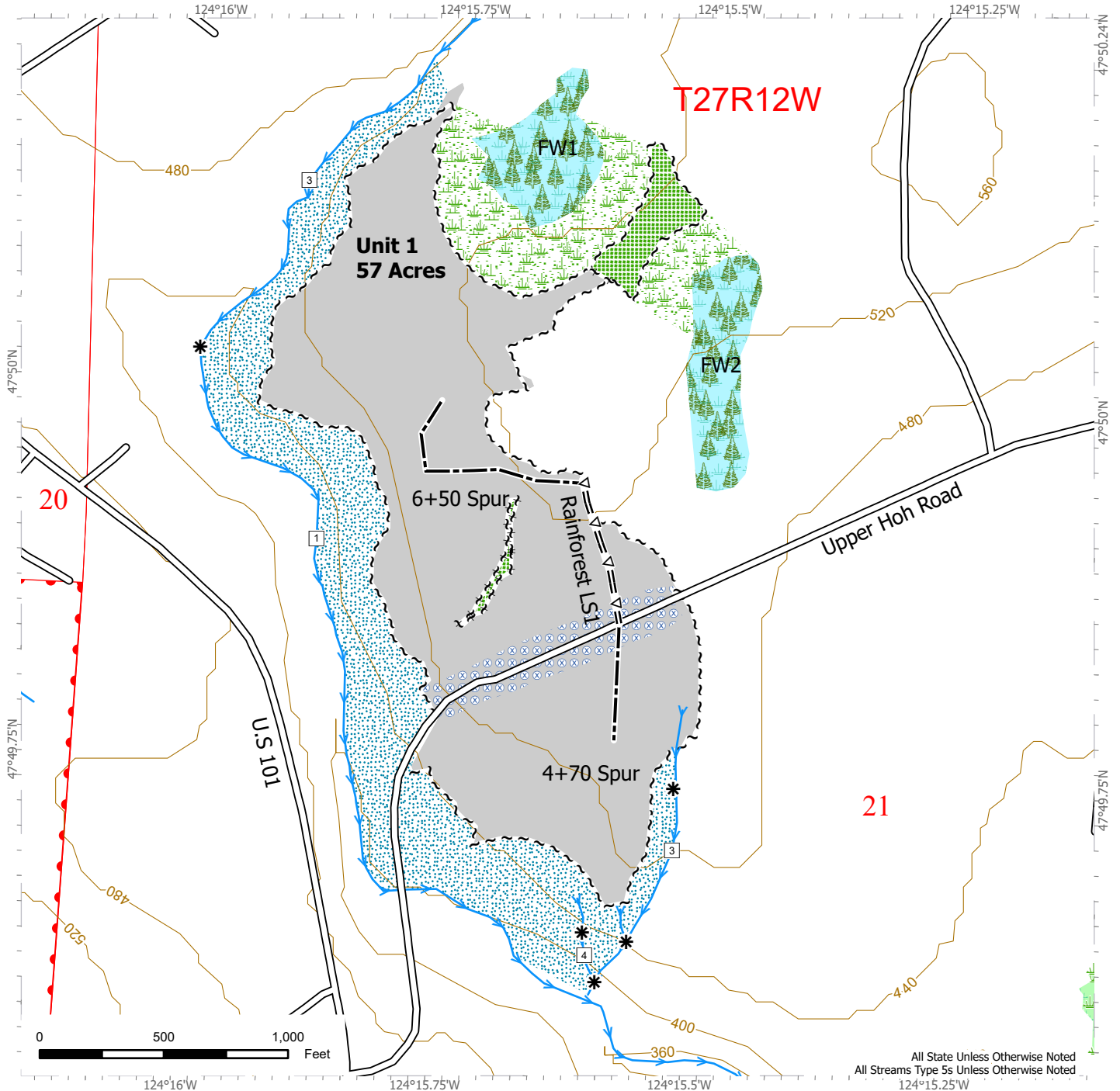
Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



LOGGING PLAN MAP

SALE NAME: NEW FOX
AGREEMENT #: 107171
TOWNSHIP(S): T27R11W, T27R12W
TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 440'1320'



All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted
 124°15.25'W

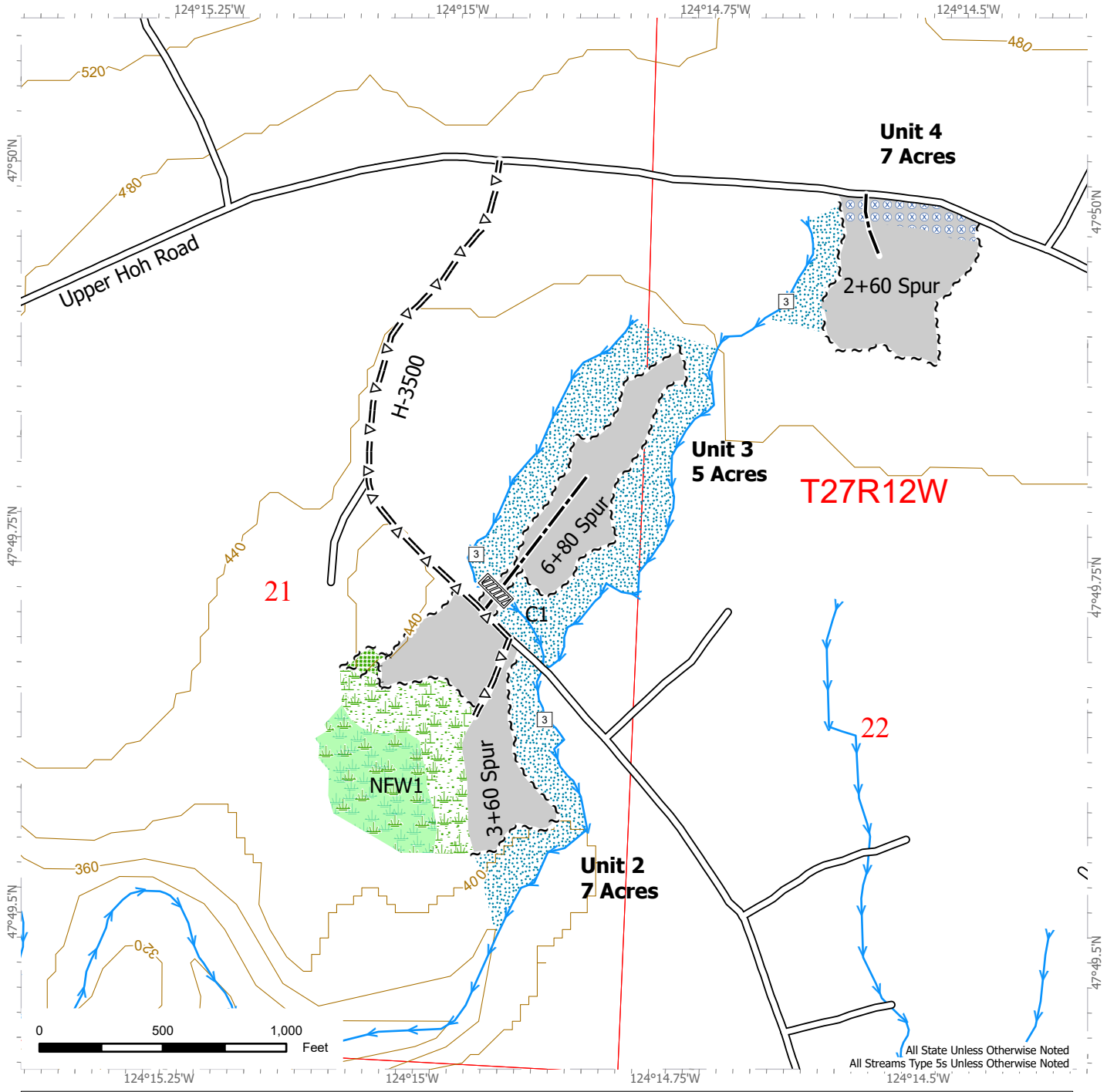
~ ~	Sale Boundary Tags		Wetland Mgt Zone		Stream Type
~ ~	Leave Tree Tags		Riparian Mgt Zone		Stream Break
	Streams		Hazard Abatement Area		DNR Managed Lands
	Ground		Existing Roads		Optional Pre-Haul Maintenance
	Leave Tree Area		Optional Construction		Contours 40 ft
	Forested Wetland				
	Wetlands - Non-forested				



LOGGING PLAN MAP

SALE NAME: NEW FOX
AGREEMENT #: 107171
TOWNSHIP(S): T27R11W, T27R12W
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 All Streams Type 5s Unless Otherwise Noted

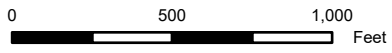
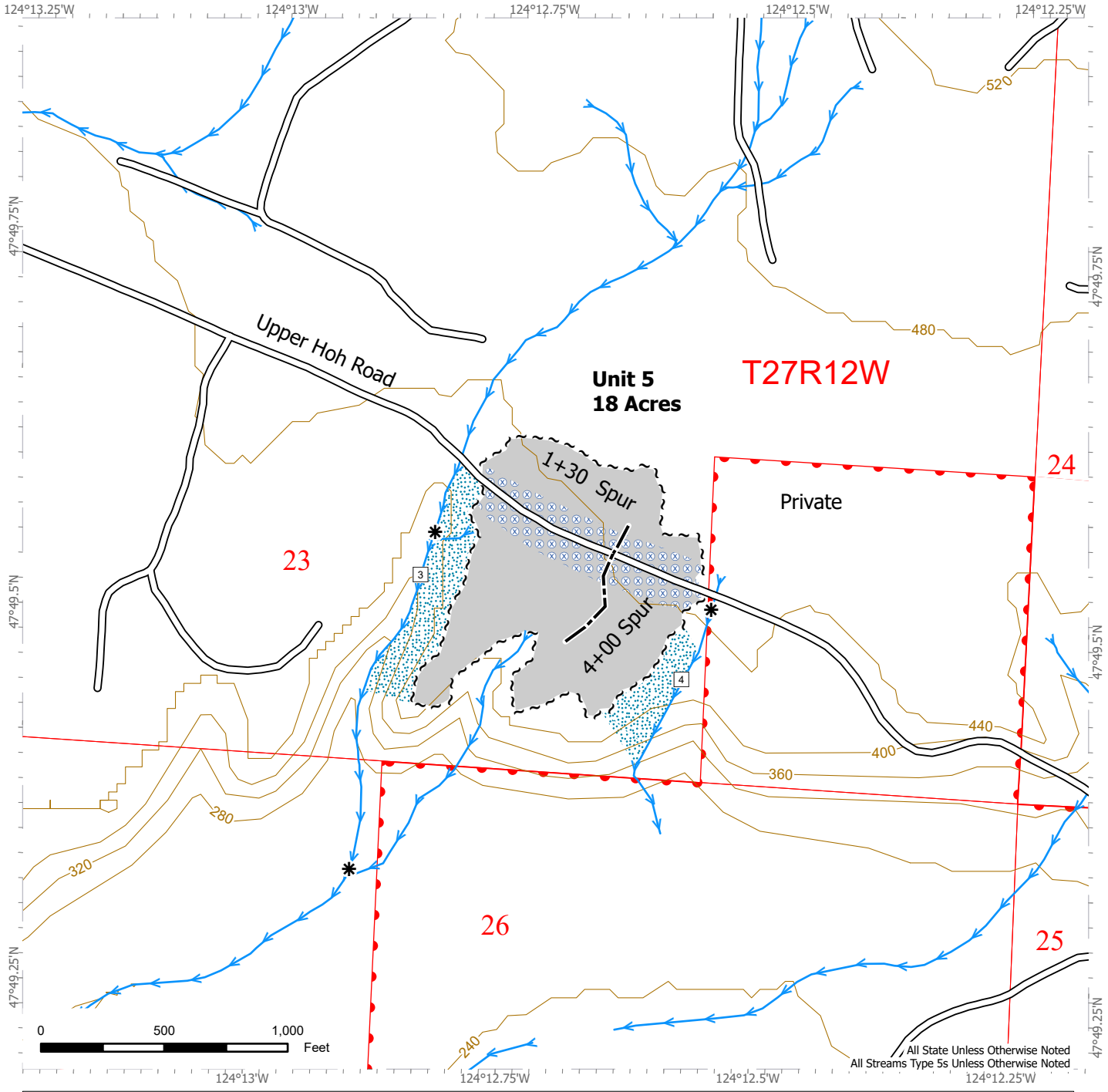
~ ~	Sale Boundary Tags		Riparian Mgt Zone		Stream Type
~ ~	Leave Tree Tags		Hazard Abatement Area		DNR Managed Lands
	Streams		Stream Crossing		Existing Roads
	Ground		Optional Pre-Haul Maintenance		Optional Construction
	Leave Tree Area		Contours 40 ft		
	Forested Wetland				
	Wetlands - Non-forested				
	Wetland Mgt Zone				



LOGGING PLAN MAP

SALE NAME: NEW FOX
AGREEMENT #: 107171
TOWNSHIP(S): T27R11W, T27R12W
TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 440'1320'



All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

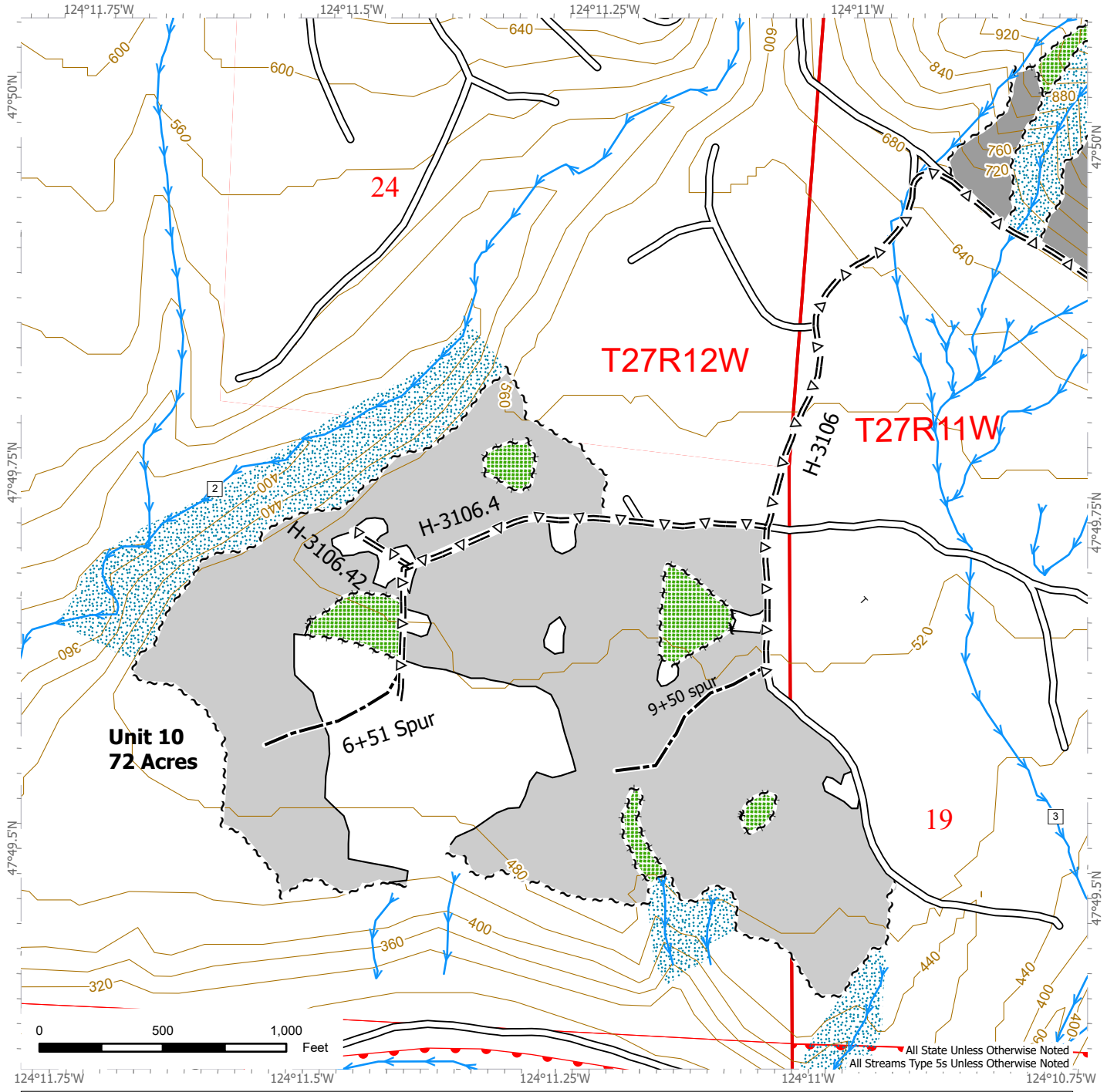
~ ~	Sale Boundary Tags	Existing Roads	□	Stream Type
→	Streams	— —	*	Stream Break
■	Ground	— —	□	DNR Managed Lands
▨	Riparian Mgt Zone	— —		
⊗	Hazard Abatement Area	— —		



LOGGING PLAN MAP

SALE NAME: NEW FOX
AGREEMENT #: 107171
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TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 440'1320'

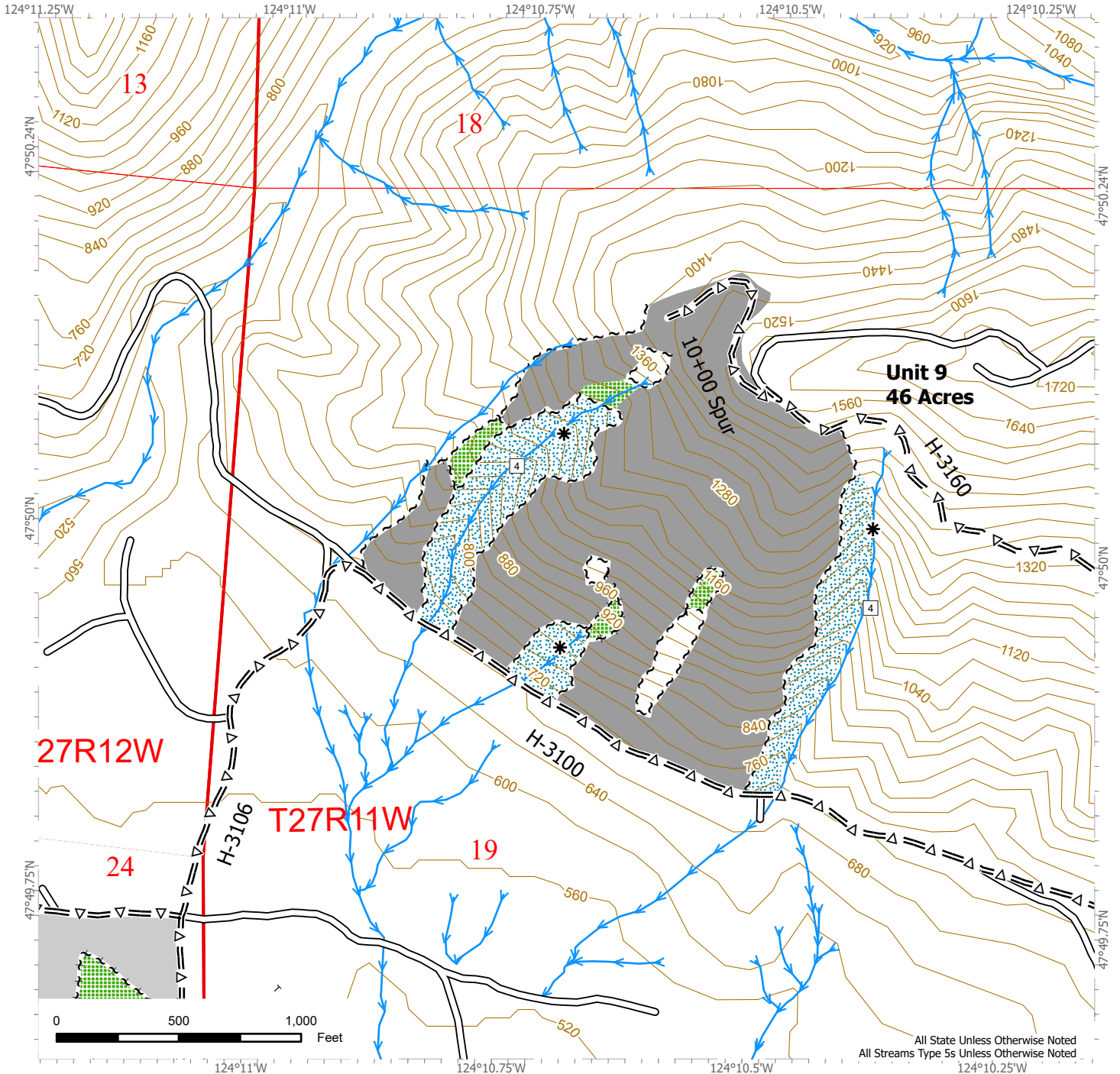


~ ~	Sale Boundary Tags		Riparian Mgt Zone		Stream Type
~ ~	Leave Tree Tags		Existing Roads		DNR Managed Lands
—	Timber Type Change		Optional Pre-Haul Maintenance		Optional Construction
	Streams		Contours 40 ft		
	Cable				
	Ground				
	Leave Tree Area				

LOGGING PLAN MAP

SALE NAME: NEW FOX
AGREEMENT #: 107171
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TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 440'1320'



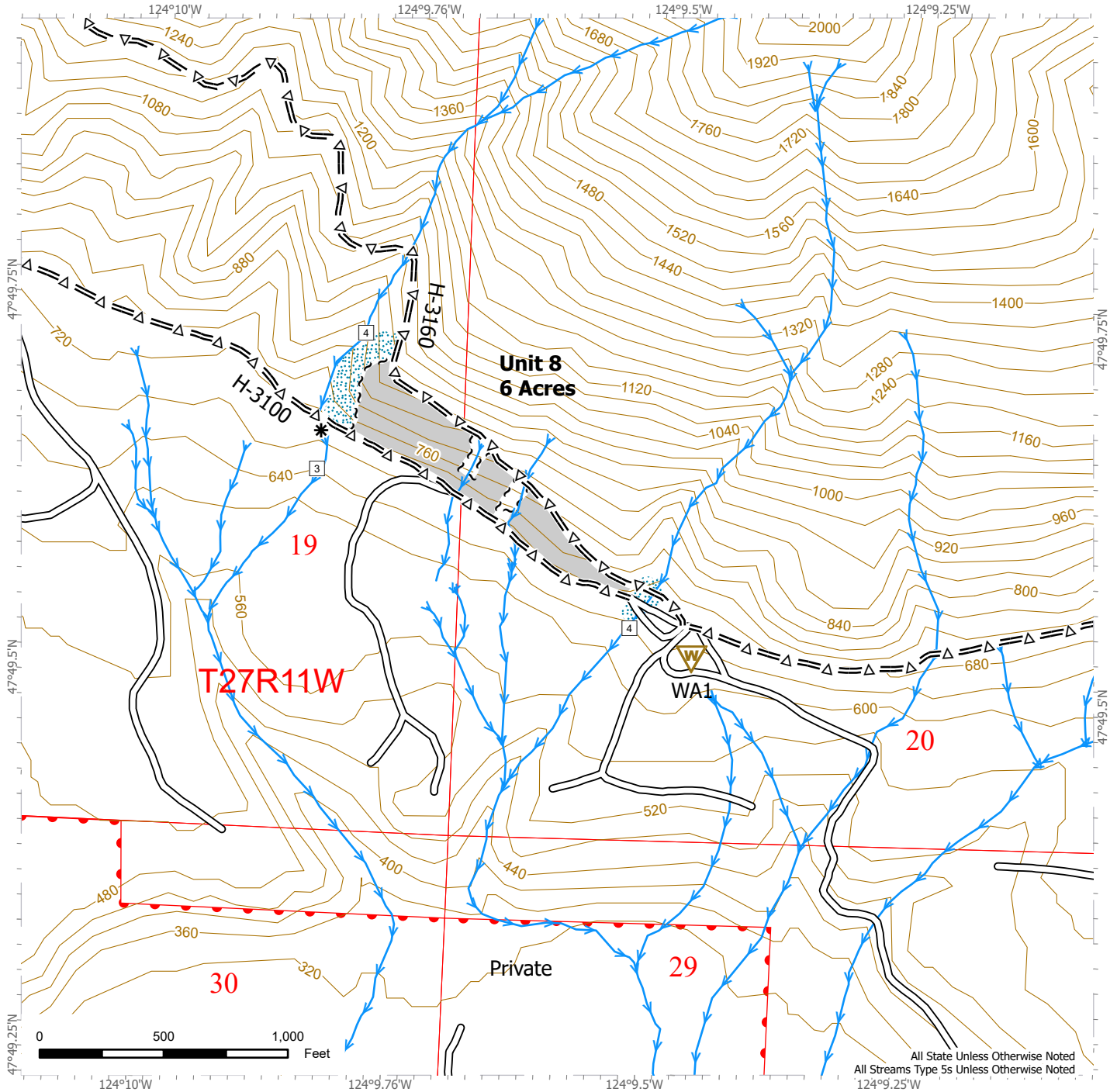
All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

~ ~ Sale Boundary Tags	Riparian Mgt Zone	Stream Type
⋈ ⋈ Leave Tree Tags	Existing Roads	Stream Break
— Timber Type Change	Optional Pre-Haul Maintenance	DNR Managed Lands
Streams	Optional Construction	
Cable	Contours 40 ft	
Ground		
Leave Tree Area		

LOGGING PLAN MAP

SALE NAME: NEW FOX
AGREEMENT #: 107171
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COUNTY(S): Jefferson
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All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

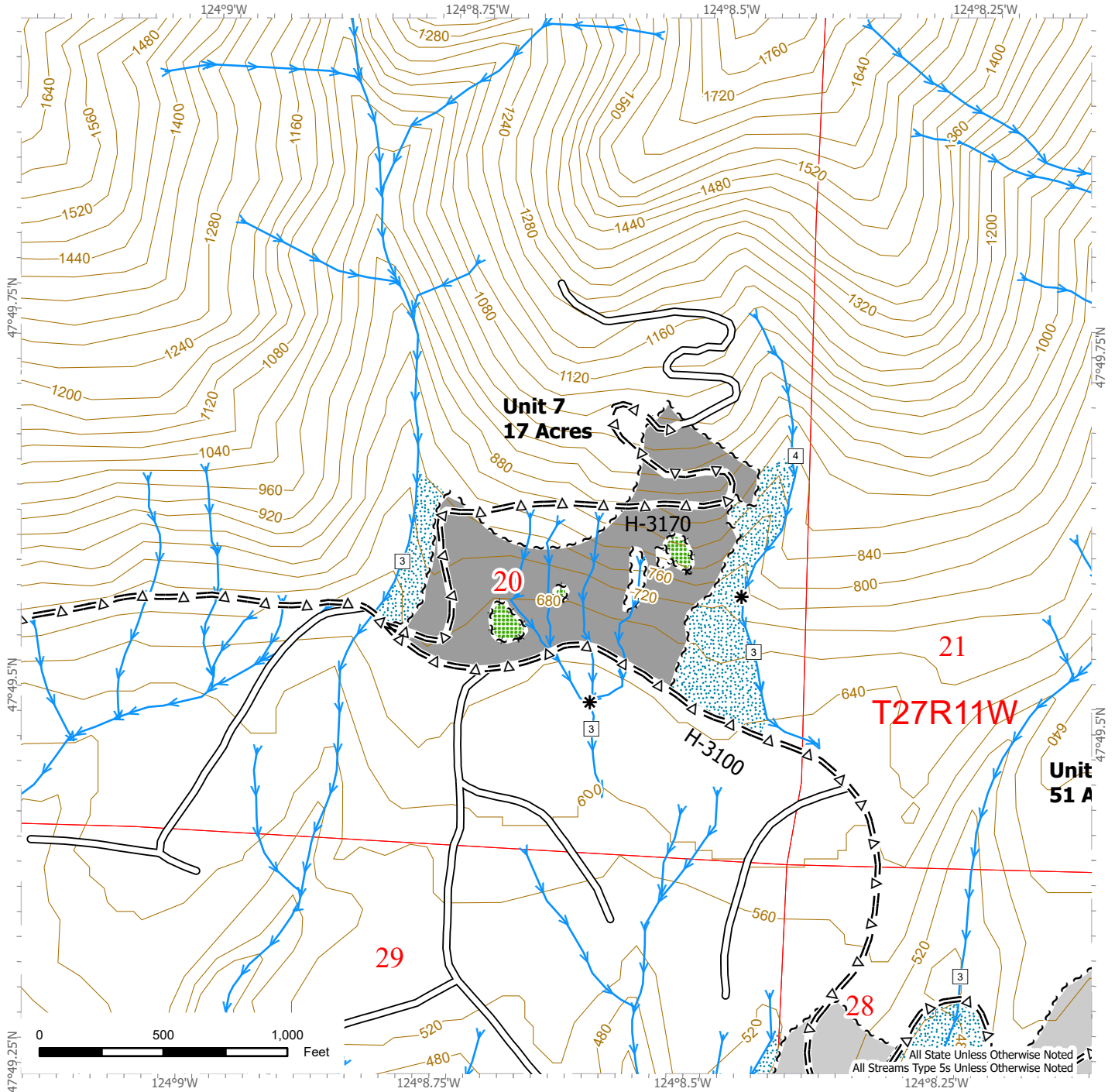
~ ~ Sale Boundary Tags	Waste Area	Stream Type
Streams	Existing Roads	Stream Break
Ground	Optional Pre-Haul Maintenance	DNR Managed Lands
Riparian Mgt Zone	Contours 40 ft	



LOGGING PLAN MAP

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COUNTY(S): Jefferson
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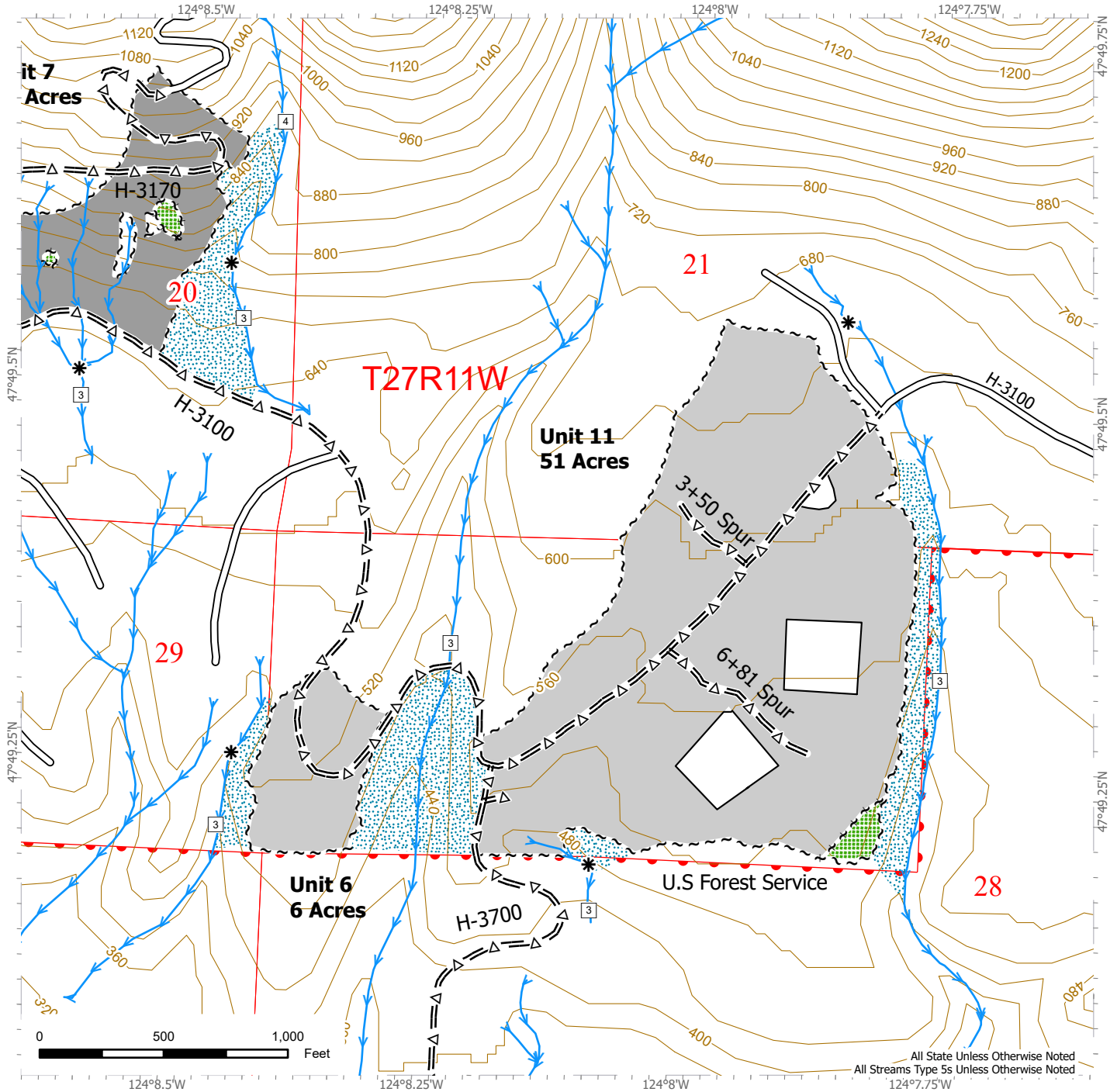
All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

~ ~	Sale Boundary Tags	—○—	Existing Roads	□	Stream Type
~ ~	Leave Tree Tags	=Δ	Optional Pre-Haul Maintenance	*	Stream Break
—	Streams	—	Contours 40 ft	◻	DNR Managed Lands
■	Cable				
■	Ground				
■	Leave Tree Area				
■	Riparian Mgt Zone				

LOGGING PLAN MAP

SALE NAME: NEW FOX
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TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 440'1320'



All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

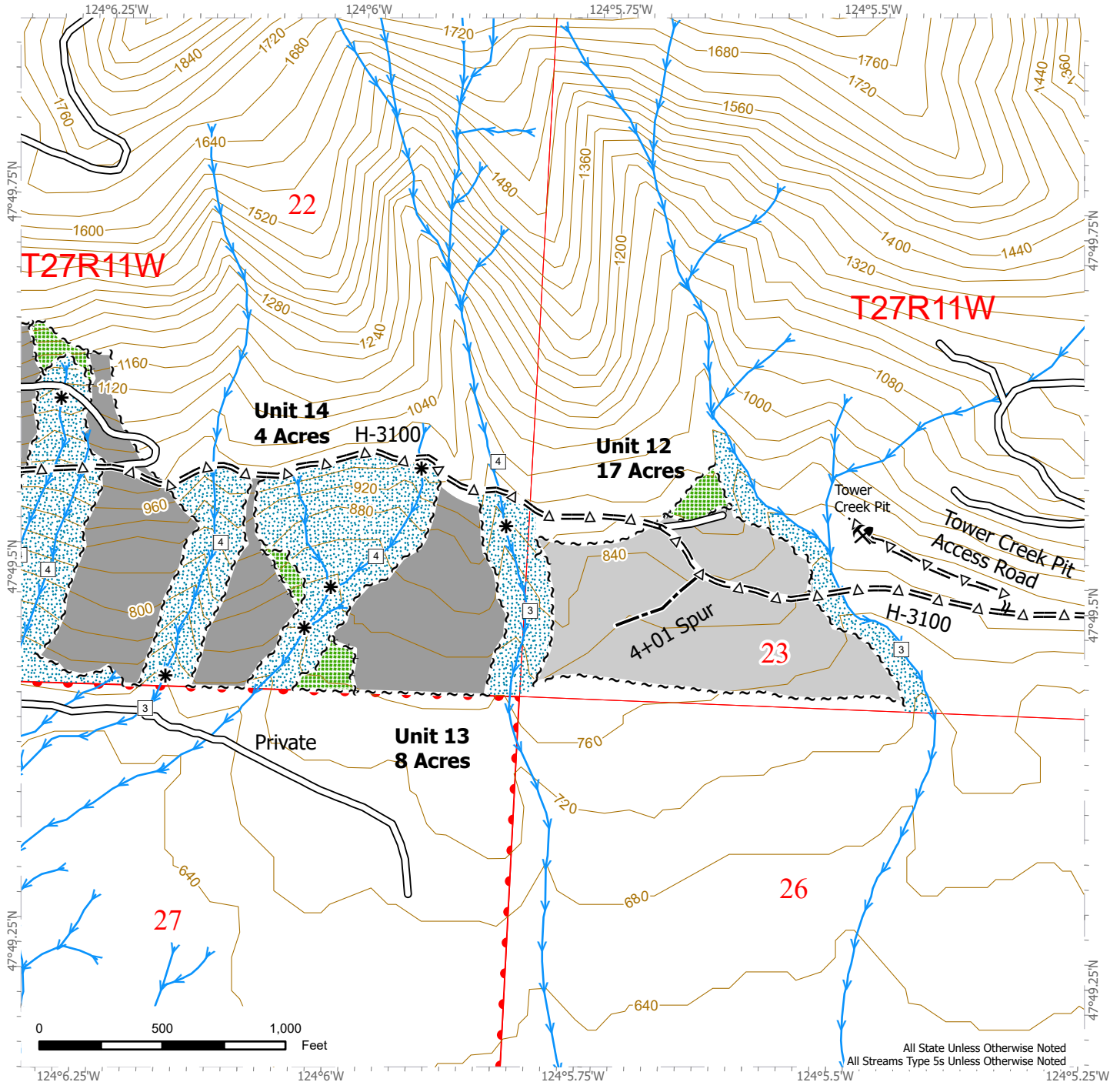
~ ~ Sale Boundary Tags	Riparian Mgt Zone	Stream Type
~ ~ Leave Tree Tags	Existing Roads	Stream Break
— Timber Type Change	Optional Pre-Haul Maintenance	DNR Managed Lands
Streams	Contours 40 ft	
Cable		
Ground		
Leave Tree Area		



LOGGING PLAN MAP

SALE NAME: NEW FOX
AGREEMENT #: 107171
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TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 440'1320'



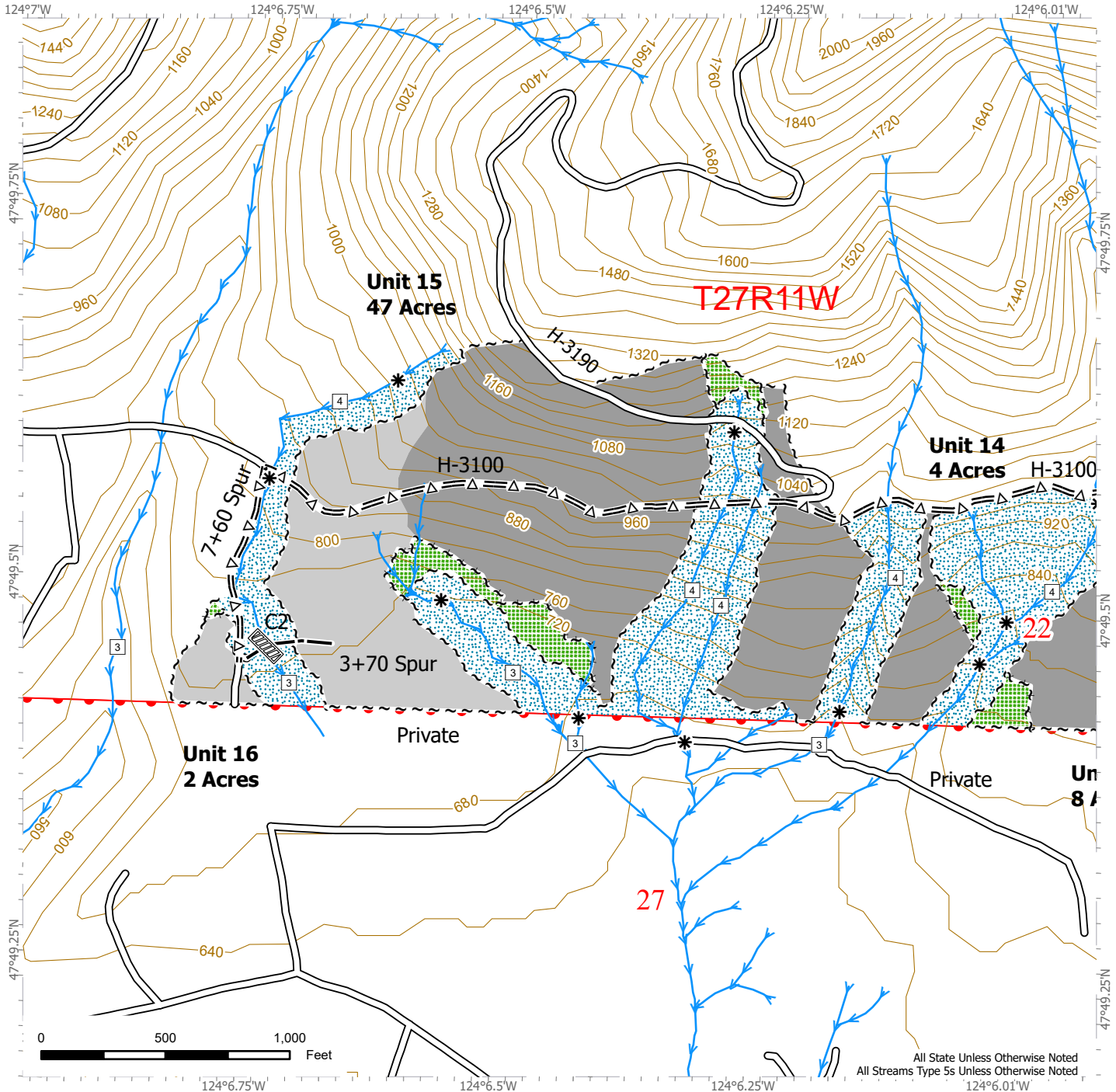
All State Unless Otherwise Noted
 All Streams Type 5s Unless Otherwise Noted

~ ~ Sale Boundary Tags	⚡ Rock Pit	□ Stream Type
~ ~ Leave Tree Tags	⊔ Existing Roads	* Stream Break
→ Streams	=Δ Optional Pre-Haul Maintenance	🔴 DNR Managed Lands
■ Cable	— Optional Construction	
■ Ground	— Contours 40 ft	
■ Leave Tree Area		
■ Riparian Mgt Zone		

LOGGING PLAN MAP

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 All Streams Type 5s Unless Otherwise Noted

~ ~	Sale Boundary Tags		Stream Crossing		Stream Type
~ ~	Leave Tree Tags		Existing Roads	*	Stream Break
	Streams		Optional Pre-Haul Maintenance		DNR Managed Lands
	Cable		Optional Construction		
	Ground		Contours 40 ft		
	Leave Tree Area				
	Riparian Mgt Zone				