

Oregon Department of Forestry

2600 State St Salem OR 97310

PART III: EXHIBITS **EXHIBIT B**

TIMBER SALE OPERATIONS PLAN

(See page 2 for instructions)

Date Received by State	:		(5) Stat	(5) State Brand Information (Complete)					
(1) Contract Number:	FG-341-202	22-W00882-01							
(2) Sale Name:	Neverstill								
(3) Contract Expiration	Date: 10/31/	2024							
(4) Purchaser Name:									
(6) State Representative	es:								
<u>Name</u>		Circle One	Phone No.	Cell No.	Alt Phone				
		Logging Projects All							
		Logging Projects All							
		Logging Projects All							
		Logging Projects All							
(7) Purchaser Represer	ntatives:	Circle One	Phone No.	Cell No.	Alt Phone				
<u>Name</u>		Logging Projects All		<u> </u>	<u> </u>				
		Logging Projects All							
					4				
		Logging Projects All							
		Logging Projects All			_				
		Logging Projects All							
		Logging Projects All							
		Logging Projects All							
8) Name of Subcontract Project No. Subcont	ors and Start E tractor Name.		Completion Dat	e Cell No.	Alt Phone				
Sub	contractor Na	ame. S	tart Date	Cell No.	Alt Phone				
9) Comments:									

⁽¹⁰⁾ Operations Map: Attach a copy of timber sale Exhibit A or other suitable map which plainly shows the items listed on the instruction sheet.



Oregon Department of Forestry

2600 State St Salem OR 97310

PART III: EXHIBITS

EXHIBIT B INSTRUCTION SHEET FOR OPERATIONS PLAN

SUBMIT ONE COPY OF PLAN STATE

Operations shall be limited to the work shown in the plan until a revised plan or supplemental plan is submitted covering additional work. Compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act. If STATE has prepared a required Forest Practices Act (FPA) "Written Plan" for operations, PURCHASER shall comply with all provisions of the Written Plan.

Explanation of Item No.(from Page 1)

- (5) All sales require you to use a brand furnished by STATE. If the State brand has not been assigned when the plan is submitted, it will be furnished and assigned later. Complete drawing. If more than one brand is assigned to the sale, complete both drawings.
- (6) The contract requires you to have a designated representative available on the sale area or work location who is authorized to receive in your behalf any notice or instruction given by STATE and to take action in regard to performance under the contract. If logging and project work is widely separated, a representative is required for each.
- (7) The STATE representative will be designated when your plan is approved and is the person who will inspect and issue instructions regarding performance.
- (8) Show names of subcontractors to be used for any or all phases of the operations. If subcontractors are not Known, or are changed later, give notification to the STATE representative prior to commencement of work by subcontractor.
- (9) Show projected dates for commencement of both projects and logging. If projected dates need to be changed at a later date, notification must be given to the STATE representative by supplemental plan or otherwise, prior to commencement of such operations.
- (10) The STATE representative will furnish extra copies of Exhibit A of the contract for your use in preparing the operations map. The map shall use the following legend and show:
 - 1. Landing locations, approximate setting boundaries, and probable sequence of logging the settings. Number the settings in sequence.
 - 2. Locations of spur roads planned for construction, other than required by the timber sale contract. Provide spur road specifications
 - 3. Locations of proposed tractor yarding roads. Show if and how marked on the ground.
 - 4. Locations of temporary stream crossings.
 - 5. List the sequence of performing project work.
 - 6. Location of rock sources attach pit development plans.

Cable Landing, with numbers for sequence.

Tractor Landing with alphabetical sequence.

Approximate setting boundary.

Spur truck roads.

Tractor yarding roads.

X Temporary stream crossings.



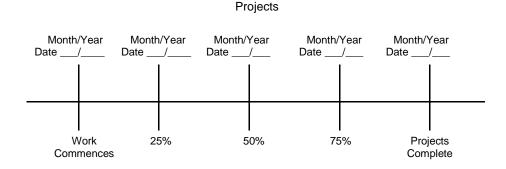
Oregon Department of Forestry 2600 State St Salem OR 97310

PART III: EXHIBITS

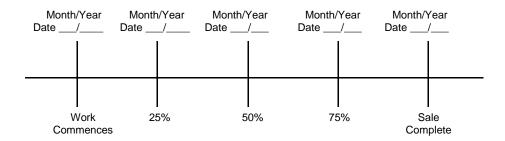
EXHIBIT B OPERATIONS PLAN

Completion Timeline

Indicate on the appropriate timeline below, the dates by which you plan to complete the work as required under this contract. The purpose of this section is to develop a plan that will ensure you complete the work as required, and meet the interim completion date(s) and contract expiration date. This plan is incorporated and made a part of the contract. When, in the opinion of STATE, operations are not commencing in a manner that meets the intent of this plan, you may be placed in violation of contract and your operations suspended until an amended plan is submitted and approved by STATE.



Harvest & Other Requirements



The Federal Endangered Species Act (ESA) prohibits a person from taking any federally listed threatened or endangered species. Taking under the federal ESA may include alteration of habitat. STATE's approval of this plan does not certify that PURCHASER's operation under the plan is lawful under the federal ESA. As provided in the timber sale contract, PURCHASER's must comply with all applicable state, federal, and local laws.

PURCHASER's compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act.

APPROVED; Date:	SUBMITTED BY:
	PURCHASER
STATE OF OREGON - DEPARTMENT OF FORESTRY	_
Title	Title



Oregon Department of Forestry EXHIBIT C - SAWMILL GRADE (WESTSIDE SCALE) SCALING INSTRUCTIONS - LOCATION APPROVAL - BRAND INFORMATION Forest Grove - NWOA

(1) ORIGINAL REGIS	TRATION 🗆 D	ate			(9) SALE NAME: Neverstill			
REVISION NUMBE	ER <u>000</u> □ D	ate			COUNTY: Washington			
CANCELLATION		ate			(10) STATE CONTRACT NUMBER:			
(2) TO:					FG-341-2022-W00882-01			
	nird Party Scaling Org	janization))		(11) STATE BRAND REGISTRATION NUMBER:			
(3) FROM: Forest Gr	ove Phone (50	3) 357-2	2191					
(State Forest	•				(12) STATE BRAND INFORMATION:			
	LES CRK RD	1100						
	T GROVE,OR 97116	-1199			·			
(4) PURCHASER:					·			
Mailing Address:					. ()			
_					\sim			
Phone Number:					. (13) PAINT REQUIRED: YES ☑			
(5) MINIMUM S	CALING SPECIFI	CATION	S		COLOR: Orange			
SPECIES	MINIMUM I	NET VOL	UME		(14) SPECIAL REQUESTS (Check applicable)			
Conifers		10			PEELABLE CULL (all species) ☑			
Hardwoods		10			NO DEDUCTIONS ALLOWED FOR			
					MECHANICAL DAMAGE			
*Apply minimum volu	ume test to whole log	s over 40'	Westsid	de	ADD-BACK VOLUME - Deductions due to delay ☑			
(6) WESTSIDE SCALE					OTHER:			
Use Region 6 actual t	aper rule. Logs over ه	40'.						
	YES	NO			(15) REMARKS:			
(7) Weight Scale Sam	ple 🗆							
(8) APPROVED SCAL	_ING မွ	-	~	Ħ				
LOCATIONS (as shown on the ODF Approv	red S	Yard	Truck	Weight				
Locations web-site)	Ŕ		1	>	Operator's Name (Optional inclusion by District):			
					(16)			
					Purchaser or Authorized Representative Date			
					State Forester Representative Date			
					State Forester Representative PRINT NAME			



Oregon Department of Forestry EXHIBIT C - SAWMILL GRADE INSTRUCTIONS FOR EXHIBIT C Forest Grove - NWOA

(1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.

(2)

Columbia River Log Scaling & Grading Bureau P.O.Box 7002, Eugene, OR 97401

Phone: (541) 342-6007 Fax: (541) 342-2631

Email: services@crls.com

Mountain Western Log Scaling & Grading Bureau

P.O.Box 580, Roseburg, OR 97470

Phone: (541) 673-5571 Fax: (541) 672-6381

Email: info@mwlsgb.com

Northwest Log Scalers Inc.

6137 NE 63rd St, Vancouver, WA, 98661

Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213

Email: info@nwlogscalers.com

Pacific Rim Log Scaling Bureau, Inc. 8288 28th Court North East, Lacey, WA 98516 Phone: (360) 528-8710 Fax: (360) 528-8718

Email: office@prlsb.com

Yamhill Log Scaling & Grading Bureau P.O.Box 709, Forest Grove, OR 97116 Phone: (503) 359-4474 Fax: (503) 359-4476

Email: yamhilllog@frontier.com

- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Minimum Scaling Specifications.
- (6) Westside Region 6 actual taper segment scale. Check Yes or No. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs All Species State Forestry Department Scaling Practices (Westside).
- (7) Weight Scale Sample Check box if sale is to be a Weight Scale Sample. All specifies for handling, scaling and processing will be attached or explained in the Remarks section item (15).
- (8) Show scaling locations only applicable to TPSO. Location name should appear as it does on the ODF Approved Scaling Location web site: https://apps.odf.oregon.gov/Divisions/management/asset_management/scalinglocation.asp Locations with scaling and processing directions specific to their location should be on a separate form. Species should be identified if not capable of receiving "all" species. Check appropriate box for either: yard, truck scale, or weight. Refer to the web site listed above for the locations approval status.
- (9) Enter sale name and county.
- (10) Enter sale Contract number.
- (11) Enter Oregon's State Brand Registry Number (REQUIRED).
- (12) Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section item (15).
- (13) Check yes for Paint Required and designate "Orange" for color. Non required removal volumes may sometimes require blue paint.
- (14) Special Requests. These are requests that will be applied to ODF timber sales. All boxes applicable to the timber sales designated in the Exhibit C form must be "marked". If "Other" is indicated, it must contain a description and any necessary comments.
- (15) Use this space to designate any weight scale sample instructions or any other explanations to clarify scaling, processing and/or mailing requirements. If additional scaling locations are approved, revise original or current form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (16) Require purchaser to sign and date completed form in addition to State Forester Representative, sign <u>and</u> print name on the form. Signatures not required on revisions.



Oregon Department of Forestry EXHIBIT C - SAWMILL GRADE (WESTSIDE SCALE) SCALING INSTRUCTIONS - LOCATION APPROVAL - BRAND INFORMATION Forest Grove - NWOA

(1) ORIGINAL REGIST	TRATION	Date			(9) SALE NAME: Neverstill
REVISION NUMBE	R 000 🗆	Date			COUNTY: Washington
CANCELLATION		Date			(10) STATE CONTRACT NUMBER:
(2) TO:					FG-341-2022-W00882-01
	nird Party Scaling O	rganization)		(11) STATE BRAND REGISTRATION NUMBER:
(3) FROM: Forest Gre	ove Phone (503) 357-2	2191		. ,
(State Foresti					(12) STATE BRAND INFORMATION:
71001000	LES CRK RD				·
FORES	T GROVE,OR 9711	6-1199			
(4) PURCHASER:					.) (
Mailing Address:					
•					
Phone Number:					-
-	SCALING SPECIF	EIC ATION	<u> </u>		. (13) PAINT REQUIRED: YES ☑
(5) MINIMUM S	CALING SPECIF	TCATION	<u> </u>		COLOR: Orange
SPECIES	MINIMUM		LUME		(14) SPECIAL REQUESTS (Check applicable)
Conifers		10			PEELABLE CULL (all species) ☑
Hardwoods		10			NO DEDUCTIONS ALLOWED FOR
**		401	147		MECHANICAL DAMAGE ✓
*Apply minimum volu		gs over 40°	Westsi	de	ADD-BACK VOLUME - Deductions due to delay ☑
(6) WESTSIDE SCALE Use Region 6 actual t		r 40'			OTHER:
ose rregion o actual t					
(-) 14 : 1 : 0 : 1 : 0	YES				(15) REMARKS:
(7) Weight Scale Sam		<u> </u>			
(8) APPROVED SCAL LOCATIONS	ING s	9	쏬) jt	
(as shown on the ODF Approv	NG Secies	Yard	Truck	Weight	
Locations web-site)	σ			_	Operator's Name (Optional inclusion by District):
					(16)
					Purchaser or Authorized Representative Date
					State Forester Representative Date
					State Forester Representative PRINT NAME



Oregon Department of Forestry EXHIBIT C - SAWMILL GRADE INSTRUCTIONS FOR EXHIBIT C Forest Grove - NWOA

(1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.

(2)

Columbia River Log Scaling & Grading Bureau P.O.Box 7002, Eugene, OR 97401

Phone: (541) 343,6007 Fey: (541) 343,3634

Phone: (541) 342-6007 Fax: (541) 342-2631

Email: services@crls.com

Mountain Western Log Scaling & Grading Bureau

P.O.Box 580, Roseburg, OR 97470

Phone: (541) 673-5571 Fax: (541) 672-6381

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Northwest Log Scalers Inc.

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Email: info@nwlogscalers.com

8288 28th Court North East, Lacey, WA 98516 Phone: (360) 528-8710 Fax: (360) 528-8718 Email: office@prlsb.com

Pacific Rim Log Scaling Bureau, Inc.

Yamhill Log Scaling & Grading Bureau P.O.Box 709, Forest Grove, OR 97116 Phone: (503) 359-4474 Fax: (503) 359-4476

Email: yamhilllog@frontier.com

- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Minimum Scaling Specifications.
- (6) Westside Region 6 actual taper segment scale. Check Yes or No. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs - All Species - State Forestry Department Scaling Practices (Westside).
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- (15) Use this space to designate any weight scale sample instructions or any other explanations to clarify scaling, processing and/or mailing requirements. If additional scaling locations are approved, revise original or current form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (16) Require purchaser to sign and date completed form in addition to State Forester Representative, sign <u>and</u> print name on the form. Signatures not required on revisions.



Oregon Department of Forestry EXHIBIT C - PULP SORT PROCESSING INSTRUCTIONS - LOCATION APPROVAL BRAND INFORMATION

Forest Grove, NWOA

(1)	ORIGINAL REG	GISTRATION	☐ Date	(9)	SALE NAME:	Neverstill	
	REVISION NUM	MBER 00	00 Date		COUNTY:	Washington	
	CANCELLATIO	ON			STATE CONTRA	ACT NUMBER:	
(2)					FG-341-2022-W0	00882-01	
		(Approved Pulp	Processing Facility)	(11)	STATE BRAND I	REGISTRATION NUMB	ER:
(3)	-		hone (503) 357-2191	(12)	STATE BRAND II	NFORMATION:	
		ate Forestry Distric					
		1 GALES CRK RD			S ,		
		REST GROVE,OR	8 97116-1199) , -	(
(4)	PURCHASER:	-					
(5)	Scaling Bureau	(TPSO) Processin	ng Weight receipts:				
	Mailing Address	e·					
	Mailing Address			(13)	REMARKS:		
	Phone Number	r:					
				_			
(6)	STATE Definiti Sort:	ion of Approved P	Pulp	Оре	erator's Name (Option	onal inclusion by District):
	• Top portion of	the tree (tops).					
		diameter (Big End)		(14)	SIGNATURES:		
	than <u>8</u> inches	marked with blue page	paint.				
(7)	PULP FACILITY	Y PROCESSING IN	NSTRUCTIONS:	Dur	ahaaar ar Authariza	d Depresentative	Date
	Pulp loads shape	all be weighed in lie	eu of scaling.	Full	chaser or Authorize	u Kepresentative	Date
	• One Ton = 20	000 lbs (Short Ton).					
	• Pulp loads sha	all have a yellow Lo	og Load Receipt attached.	Stat	te Forester Represe	entative	Date
	•	and truck tare weig d on the weight rec	ht for each load shall be eipt.				
	 Weigher shall 	sign the weight red	ceipt.	Sta	te Forester Represe	entative PRINT NAME	
	 Weigher shall weight receipt. 	record the Log Loa	ad Receipt number on the				
	 Weigher shall Receipt and ma Weight receipt. 	ail them weekly to th	receipt to the Log Load he TPSO processing the				
(8)	TPSO PROCE	SSING INSTRUCT	TIONS				
	Submit data fi	iles daily (or each d	day of activity).				

Notify the District within one hour when branding is inadequate for quick identification, the logs are marked with orange paint, the receipts are missing, not correctly or completely filled out, and/or logs do not meet the specifications of the STATE definition of Approved Pulp Sort.

• Mail or deliver scale tickets weekly to ODF Headquarters in

General Distribution: TPSO, Approved Scaling Locations and Purchaser.



Oregon Department of Forestry EXHIBIT C - PULP SORT INSTRUCTIONS FOR EXHIBIT C

Forest Grove, NWOA

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.
- (2) Approved Pulp Processing Facility. Write in as written in the Approved Log Delivery Location https://apps.odf.oregon.gov/Divisions/management/asset_management/scalinglocation.asp
- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Third Party Scaling Organization that will be processing the weight tickets, mailing address, and phone number.

Columbia River Log Scaling & Grading Bureau P.O.Box 7002, Eugene, OR 97401 Phone: (541) 342-6007 Fax: (541) 342-2631

Email: services@crls.com

Mountain Western Log Scaling & Grading Bureau P.O.Box 580, Roseburg, OR 97470 Phone: (541) 673-5571 Fax: (541) 672-6381

Email: info@mwlsgb.com

Northwest Log Scalers Inc. 6137 NE 63rd St, Vancouver, WA, 98661 Phone: (360) 553-7212 ext. 4 Fax:(360) 553-7213 Email: info@nwlogscalers.com Pacific Rim Log Scaling Bureau, Inc. 8288 28th Court North East, Lacey, WA 98516 Phone: (360) 528-8710 Fax: (360) 528-8718 Email: office@prlsb.com

Yamhill Log Scaling & Grading Bureau P.O.Box 709, Forest Grove, OR 97116 Phone: (503) 359-4474 Fax: (503) 359-4476 Email: yamhilllog@frontier.com

Big end of log is not to exceed 2 inches greater than the minimum removal specifications in the contract. Example: Minimum removal specifications 6 inches and 20 board feet, then the Big end of log not to exceed 8 inches. When conifer and hardwood removal specifications are different, use the smaller removal diameter to determine this specification.

- (9) Enter sale name and county.
- (10) Enter sale Contract number.
- (11) Enter Oregon's State Brand Registry Number (REQUIRED).
- (12) Show brand assigned to timber sale. One brand only, if more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (13).
- (13) Use this section to list any special instructions or the reason for any revisions in section item (1).
- (14) Require purchaser to sign and date completed form in addition to State Forester Representative, sign <u>and</u> print name on the form. Signatures not required on revisions.



Oregon Department of Forestry EXHIBIT C - PULP SORT PROCESSING INSTRUCTIONS - LOCATION APPROVAL BRAND INFORMATION

Forest Grove, NWOA

(1)	ORIGINAL REGISTRATION Date	(9) SALE NAME: Neverstill
	REVISION NUMBER 000 □ Date	COUNTY: Washington
	CANCELLATION	STATE CONTRACT NUMBER:
(2)		FG-341-2022-W00882-01
	(Approved Pulp Processing Facility)	(11) STATE BRAND REGISTRATION NUMBER:
(3)	FROM: Forest Grove Phone (503) 357-219 (State Forestry District)	(12) STATE BRAND INFORMATION:
	Address: 801 GALES CRK RD	
	FOREST GROVE,OR 97116-1199	
(4)	PURCHASER:	
(5)	Scaling Bureau (TPSO) Processing Weight receipts:	
	Mailing Address:	
	,	(13) REMARKS:
	Phone Number:	
(6)	STATE Definition of Approved Pulp Sort:	Operator's Name (Optional inclusion by District):
	• Top portion of the tree (tops).	
	All logs with a diameter (Big End) greater	(14) SIGNATURES:
	than <u>8</u> inches marked with blue paint.	
(7)	PULP FACILITY PROCESSING INSTRUCTIONS:	Purchaser or Authorized Representative Date
	Pulp loads shall be weighed in lieu of scaling.	Purchaser or Authorized Representative Date
	• One Ton = 2000 lbs (Short Ton).	
	• Pulp loads shall have a yellow Log Load Receipt attach	State Forester Representative Date
	Gross weight and truck tare weight for each load shall I machine printed on the weight receipt.	
	Weigher shall sign the weight receipt.	State Forester Representative PRINT NAME
	Weigher shall record the Log Load Receipt number on weight receipt.	
	 Weigher shall attach the Weight receipt to the Log Load Receipt and mail them weekly to the TPSO processing to Weight receipt. 	
(8)	TPSO PROCESSING INSTRUCTIONS	
	Submit data files daily (or each day of activity).	
	Mail or deliver scale tickets weekly to ODF Headquarte	

Notify the District within one hour when branding is inadequate for quick identification, the logs are marked with orange paint, the receipts are missing, not correctly or completely filled out, and/or logs do not meet the specifications of the STATE definition of Approved Pulp Sort.

General Distribution: TPSO, Approved Scaling Locations and Purchaser.



Oregon Department of Forestry EXHIBIT C - PULP SORT INSTRUCTIONS FOR EXHIBIT C

Forest Grove, NWOA

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers.
- (2) Approved Pulp Processing Facility. Write in as written in the Approved Log Delivery Location https://apps.odf.oregon.gov/Divisions/management/asset_management/scalinglocation.asp
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Yamhill Log Scaling & Grading Bureau P.O.Box 709, Forest Grove, OR 97116 Phone: (503) 359-4474 Fax: (503) 359-4476

Email: yamhilllog@frontier.com

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- (9) Enter sale name and county.
- (10) Enter sale Contract number.
- (11) Enter Oregon's State Brand Registry Number (REQUIRED).
- (12) Show brand assigned to timber sale. One brand only, if more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (13).
- (13) Use this section to list any special instructions or the reason for any revisions in section item (1).
- (14) Require purchaser to sign and date completed form in addition to State Forester Representative, sign <u>and</u> print name on the form. Signatures not required on revisions.



FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DRAINAGE		
16 feet	12 feet	A to B	0+00 to 5+20	Ditch		
Match Existing	Match Existing	C to D	0+00 to 18+50	Ditch		

<u>CLEARING</u>. This work shall consist of clearing, removing, and disposing of all trees, Snags, Down Timber, brush, surface objects, and protruding obstructions within the clearing limits. All danger trees, leaners, and Snags outside the clearing limits which could fall and hit the road shall be felled.

CLEARING CLASSIFICATION.

New Construction - Where clearing limits have not been marked, the clearing limits shall extend 5 feet back of the top of the cutslope and 5 feet out from the toe of the fill slope, or as directed by STATE.

<u>GRUBBING</u>. This work shall consist of the removal or digging out of stumps and protruding objects. All stumps shall be completely removed within the limits of required grubbing. Stumps overhanging cutslopes shall be removed.

GRUBBING CLASSIFICATION.

New construction - from the top of the cutslope to the toe of the fill.

<u>CLEARING AND GRUBBING DISPOSAL</u>. Clearing and grubbing debris shall not be placed or permitted to remain in or under any road embankment sections. Clearing and grubbing debris shall be left in a stable location, and not left lodged against standing trees. Clearing and grubbing debris may be scattered through openings in the timber outside of the cleared right-of-way, except for the following areas where debris shall be fully contained and hauled to a designated waste area:

- Where end-haul is required
- On side slopes exceeding 55 percent
- On unstable areas
- In any stream channel (Type F, N or D) or where material may enter the stream channel.

Clearing, grubbing, and associated disposal shall be completed prior to subgrade approval.

FOREST ROAD SPECIFICATIONS

<u>EXCAVATION</u>. Excavation and grading shall not be done when weather and/or ground conditions are such that damage will result to existing subgrade or cause excessive erosion.

Excavation shall conform to STATE-specified lines, grades, dimensions, and plans when provided.

Unless road plans show otherwise, all roads shall be on a balanced cross section, except when the slope is over 50 percent, the road shall be on full bench for the width specified.

Suitable excavated material shall be used for the formation of fills, shoulders, and drainage structure backfills. Embankment materials shall be free of woody debris, brush, muck, sod, frozen material, and other deleterious materials.

Sidecast includes any road generated excess excavation material which is not essential as part of the road prism, is not compacted, and is below the roadway. Sidecast shall not be placed where it will enter a stream course. Leaving sidecast below the road is only permissible if specifically allowed in "Full Bench and End Haul Requirements" in this Exhibit.

<u>ROAD WIDTH LIMITATIONS</u>. PURCHASER shall obtain advance written approval from STATE to construct the road to a greater width than specified. Extra subgrade width shall be required for:

Fill Widening. Add to each fill shoulder 1 foot for fills 3 feet to 6 feet high; 2 feet for fills over 6 feet high.

<u>Curve Widening</u>. Widen the inside shoulder of all curves as specified in the plans or as follows: 400 divided by the radius of the curve equals the amount of extra width.

DRAINAGE.

<u>Subgrade</u>. Subgrade shall be crowned, outsloped, or insloped at 4 to 6 percent as shown on the "Forest Road Specifications" table in this Exhibit.

<u>Ditch</u>. Construct "V" shaped ditch 3 feet wide and to a depth of 1 foot below subgrade.

<u>Ditchouts</u>. Construct ditchouts to drain away from subgrade at locations marked in the field or as directed by STATE.

<u>TURNOUTS</u>. Increase roadbed width an additional 8 feet for both subgrade and surfacing. Length shall be at least 25 feet, plus 25-foot approaches at each end. Location: Intervisible but not greater than 750 feet apart.

<u>SLOPES.</u> Top of cutslope shall be rounded.	<u>Cutslopes</u>	<u>Fill Slopes</u>
Solid Rock	Vertical to ¼:1	
Fractured Rock	1/4:1	
Soil - side slopes 50% and over	1⁄2:1	1½:1
Soil - side slopes less than 50%	³⁄₄:1	1½:1

<u>LANDINGS</u>. Landings shall be constructed as posted in the field, no less than 50 feet wide and no more than 70 feet wide unless otherwise stated or approved by STATE. Surface is to be outsloped or crowned for drainage with general grade no more than 3 percent. Surface as shown in the "Road Surfacing" table in this Exhibit, with 2 feet of subgrade extending out from base of the surfacing.

<u>TURNAROUNDS</u>. Increase subgrade width an additional 20 feet for a length of 20 feet at locations marked in the field.

<u>SEASONAL WINTERIZATION</u>. All unsurfaced roads or unfinished subgrades shall be waterbarred in accordance with the specifications in Exhibit F and blocked from vehicular traffic prior to October 31, annually and as directed by STATE.

<u>EROSION CONTROL</u>. Install bio bags, silt fence, or straw bales for erosion control in project areas and ditch lines where sedimentation or erosion is possible, as directed by STATE. Each Bio-bag shall be installed with a minimum of two wooden stakes.

FOREST ROAD SPECIFICATIONS

GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

- Ex. 1 Excavated Materials. Excavated materials shall be utilized for road construction and hauled in where required. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Surplus excavated materials and waste materials shall be sloped and compacted for drainage.
- Ex. 2 <u>Drainage Ditches</u>. Construct ditchlines, including ditchouts, as directed by STATE. Cutslopes of ditchlines and ditchouts shall not exceed a 1:1 slope. Construct culvert sediment basins. Waste materials from drainage ditches and sediment basins shall be placed in nearby waste areas and uniformly sloped and compacted for drainage, as directed by STATE.
- Ex. 3 Subgrade Preparation and Application of Surfacing Rock.
 - (a) Complete culvert installations, drainage ditches, ditchouts, and other specified work prior to the application of surfacing rock.
 - (b) Subgrade shall be crowned, outsloped, or insloped at 4 to 6 percent.
 - (c) Upon completion of above required work, apply, process, and compact surfacing rock in accordance with specifications in the "Compaction and Processing Requirements" in this Exhibit. Final road surface shall be crowned, outsloped, or insloped at 4 to 6 percent.

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

Segment	<u>Station</u>	Work Description
A to B	0+00	Point A. Begin road construction; crown road, begin ditch. Begin drift.
	1+50	End drift.
End	5+20	Point B. End road construction. Construct landing.

FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT INSTRUCTIONS:

- Ex. 1 <u>Excavated Materials</u>. Excavated materials shall be utilized for road and fill construction and hauled in where required. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Surplus excavated materials and waste materials shall be sloped and compacted for drainage.
- Ex. 2 <u>Drainage Ditches</u>. Restore or construct ditchlines, including ditchouts, as directed by STATE. Clean out all culvert inlets and outlets for a 10-foot radius. (Ditch debris including woody debris shall be loaded and hauled to designated waste areas, and shall be accomplished with the use of an excavator and dump truck.) Re-establish or construct culvert sediment basins. Waste materials from drainage ditches and sediment basins shall not be pulled across existing surfacing rock, but shall be placed in nearby waste areas.
- Ex. 3 Sod Removal. Remove/separate sod from crushed rock surfacing as directed by STATE. Sod material shall be scattered in stable locations through openings in the timber outside of the cleared right-of-way. In areas where sod cannot be scattered in a stable location, material shall be end hauled to designated waste areas as shown on Exhibit A, or other stable locations as directed by STATE.
- Ex. 4 Subgrade Preparation and Application of Surfacing Rock.
 - (a) Complete culvert installations, drainage ditches, fill reconstruction, ditchouts, and other specified work prior to the application of new surfacing rock.
 - (b) Cut out all potholes and/or washboard sections from the existing surfacing.
 - (c) Process (grade and mix) the existing surface. Provide for a crown, outslope, or inslope of 4 to 6 percent, and compact in accordance to the "Compaction and Processing Requirements" in this Exhibit.

Upon completion of above required work, apply, process, and compact surfacing rock in accordance to this Exhibit.

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS:

Segment	Station	Work Description
C to D	0+00	Point C. Begin road improvement; Crown road, clean or construct ditch lines.
	3+05	Junction on right.
	13+50	Improve roadside landing on left.
	15+50	Improve turnaround on left.
End	18+50	Point D. End road improvement. Improve landing.

ROCK TABLE

ROAD SEGMENT	Sta. to Sta.				TOTAL			
	Rock Size		Depth of	0+00 to 5+20				TOTAL
Application	and Type	Location	Rock (inches)	Volume (CY) Per		Number of		VOLUME (CY)
Surfacing Rock	4" – 0 Crushed	A to B	12	Station	65	Stations	5.2	338
Turnout	4" - 0 Crushed	A to B	12	Turnout	29	Turnouts	1	29
Landing	4" – 0 Crushed	Point B	12	Landing	180	Landings	1	180
Total Rock for Roa	ad Segment:						<u> </u>	547

ROAD SEGMENT:	ROAD SEGMENT: C to D					Sta. to Sta.				
	Rock Size		Depth of	0-	0+00 to 18+50					
Application	and Type	Location	Rock	Volume (CY)		Number		VOLUME (CY)		
			(inches)	Per		of		,		
Surfacing Rock	4" – 0 Crushed	C to D	8	Station	42	Stations	18.5	777		
Junction	4" – 0 Crushed	3+05 and 14+05	8	Junction	24	Junctions	1	24		
Turnout	4" – 0 Crushed	C to D	8	Turnout	12	Turnouts	1	12		
Turnaround	4" – 0 Crushed	15+50	8	Turnaround	14	Turnarounds	1	14		
Roadside Landing	4" – 0 Crushed	13+50	8	Landing	60	Landings	1	60		
Landing	4" - 0 Crushed	Point D	8	Landing	120	Landings	1	120		
Total Rock for Roa	d Segment:					·		1,007		

TOTAL ROCK	4"-0 Crushed	
	1,554 CY	

Roads shall be uniformly graded, shaped and approved by STATE prior to rocking.

ROCK ACCOUNTABILITY

PURCHASER shall obtain subgrade approval from STATE prior to rocking. Rocking shall be limited to periods when weather conditions are acceptable to STATE and when sediment will not enter streams. Additional surfacing needed because of construction season or construction practice is not included in the preceding ROAD SURFACING table, and shall be furnished at PURCHASER expense.

Rock accountability shall be determined by the following methods, as directed by STATE. STATE shall be given 24 hours' notice prior to rocking.

<u>Depth Measurement</u>. Rock shall be spread and compacted according to the depths specified in Exhibit D. Truck measure volumes are given, but shall not limit the amount of rock spread.

Depth shall be determined in the most compacted area of the surface cross section. The depth of compacted aggregates shall not vary more than 1 inch from the depth specified in the "Road Surfacing" table in Exhibit D. The average depth for each road segment shall be the specified depth or greater. If additional rock is required because of insufficient depth, the locations and volumes to be added shall be determined by STATE.

COMPACTION AND PROCESSING REQUIREMENTS

<u>Moisture Content</u>: Compaction must take place when moisture content of the materials being compacted is favorable for effective compaction as determined by STATE.

<u>Compaction Pass</u>: A pass is defined as traveling a road section forward and then backward over that same section.

<u>Subgrade</u>. Subgrade surfaces of the road segments listed below shall be graded and compacted prior to rocking. Compaction shall be accomplished by traveling all surfaces from shoulder to shoulder until the surface is smooth and hard and visible deformation ceases. At least 3 passes shall be made over the entire width and length of the road. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Subgrade shall be crowned, outsloped, or insloped at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

ROAD SEGMENT	SUBGRADE COMPACTION OPTIONS
All road segments that require rock surfacing	Vibratory Roller

<u>Fills</u>. Embankments and fills shall be placed in (approximately) horizontal layers not more than 8 inches in depth. Each layer shall be separately, and thoroughly, compacted. Compaction equipment shall be operated over the entire width of each layer until visible deformation of the layers ceases. At least 3 passes shall be made over the entire width and length of each layer.

ROAD SEGMENT	FILL COMPACTION OPTIONS
All road segments	Vibratory Roller, Vibratory Hand-Operated, Backhoe- Mounted Tamper, or Dozer

COMPACTION AND PROCESSING REQUIREMENTS

<u>Crushed Rock</u>. The rock shall be uniformly mixed and spread in layers on the approved roadbed. Each layer of crushed rock shall be moistened or dried to uniform moisture content suitable for maximum compaction and compacted in layers not to exceed 6 inches in depth. When more than 1 layer is required, each shall be shaped, compacted, and approved by STATE before the succeeding layer is placed. Any irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing material until the surface is smooth and uniform. Each layer shall be compacted with a minimum of 3 passes over the entire width and length of the road until the surface is smooth and hard and visible deformation ceases. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Rock shall be compacted and processed during the same project period it is spread, unless otherwise approved in writing by STATE.

Rock shall be crowned, outsloped, or insloped at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

ROAD SEGMENT	CRUSHED ROCK COMPACTION OPTIONS
All road segments requiring crushed rock	Vibratory Roller

COMPACTION EQUIPMENT OPTIONS

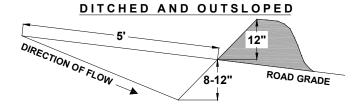
<u>Vibratory Rollers</u>. The drum shall have a smooth surface, a diameter not less than 48 inches, a width not less than 58 inches, and a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 VPM, corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 VPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled and operated at speeds ranging from 0.9 miles to 1.8 miles per hour, as directed by STATE.

<u>Vibratory Hand-Operated or Backhoe-Mounted Tamper</u>. Vibratory hand-held or hydraulic tampers shall be used for compaction of backfill materials around culverts. The tamper shoe dimensions shall be a minimum of 10" X 13" and capable of a centrifugal force of 2,250 pounds.

EXHIBIT E

WATERBAR SPECIFICATIONS

PROFILE



SPACING OF WATERBARS		
ROAD GRADE DISTANCE		
< 6 %	400'	
6 - 10 %	200'	
11 - 15 %	150'	
> 15 %	100'	

CROSS SECTION

DITCHED

OUTSLOPED

TOP OF WATERBAR

ROAD GRADE

BOTTOM OF WATERBAR

TOP OF WATERBAR

ROAD GRADE

BOTTOM OF WATERBAR

CONSTRUCT DITCHOUT THRU ANY EXISTING BERM. CROSS DRAINAGE GRADIENT MINIMUM 3%.

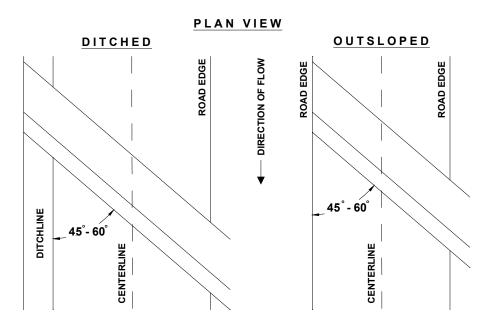
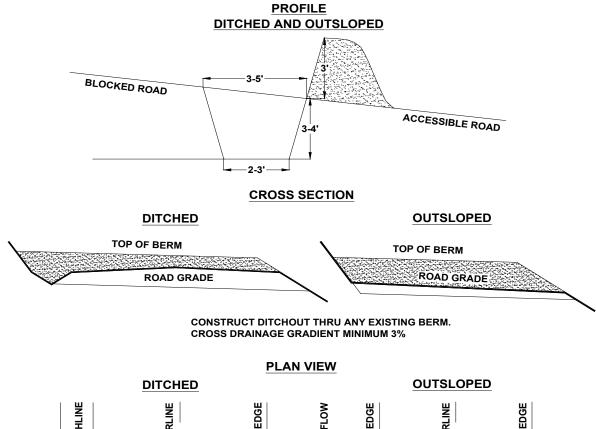
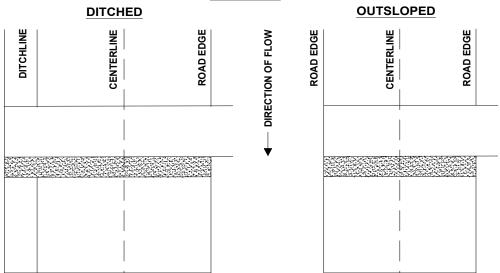


EXHIBIT E TANK TRAP SPECIFICATIONS





It should be sloped to drain with a relief ditch through the down slope edge of the road. The trench shall be behind the berm for approaching traffic.

EXHIBIT F

SEEDING AND MULCHING

This work shall consist of preparing seedbeds and furnishing and placing required seed, fertilizer, and straw mulch. Straw mulch shall consist of straw that is free of noxious weeds. Apply seed and fertilizer to all waste areas, and bare soils resulting from Project Nos. 1. Apply straw mulch to all bare soils within 100' of streams resulting from Project Nos. 1 and to all waste areas.

<u>Seeding Seasons</u>. Seeding shall be performed only from <u>March 1</u> through <u>June 15</u> and <u>August 15</u> through <u>October 31</u>. Seeding materials shall not be applied during windy weather or when the ground is excessively wet or frozen. Areas of disturbed soil shall be seeded by the end of the project period in which work was started. PURCHASER shall notify STATE within 24 hours of seeding and fertilizer application.

APPLICATION METHODS FOR SEED AND FERTILIZER

<u>Dry Method</u>. Mechanical seeders, seed drills, landscape seeders, cultipacker seeders, fertilizer spreaders, or other approved mechanical seeding equipment shall be used to apply the seed and fertilizer in the amounts and mixtures specified. Hand-operated seeding devices may be used when seed and fertilizer are applied in dry form.

APPLICATION RATES FOR SEED AND FERTILIZER

The seed mixture listed below shall be applied at 100 lbs. per acre. The seed mixture shall be comprised of the following:

SPECIES	MIXTURE	PURE LIVE SEED	GERMINATION
Annual Rye	33%	95%	>90%
Orchard Grass	33%	95%	>90%
Perennial Rye	34%	95%	>90%

<u>Fertilizer</u>: Chemical analysis shall be 16-20-0 and shall be applied at the rate of 200 pounds per acre. Fertilizer shall not be applied within 100 feet of streams.

Mulching Period. Straw mulch shall be applied within 24 hours of spreading grass seed and fertilizer.

APPLICATION RATES FOR MULCH

Place straw mulch to a reasonably uniform thickness of 1½ to 2½ inches. This rate requires between 2 and 3 tons of dry mulch per acre.

EXHIBIT G

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Description of Work to be Done

Areas designated for work under the contract shall be treated according to the specifications given below:

<u>Clearing</u> - brush, logging Slash, and other debris shall be cleared from planting sites and piled in windrows or piles, so that 80 percent or more of the soil organic layer is exposed. All woody vegetation other than trees is defined as brush in this exhibit. Stumps, however, shall be placed separately, in small clumps for wildlife.

<u>In-Unit Piles</u> - shall be located at least 75 feet apart and shall be no more than 75 feet long. Piles shall be located inside the sale area designated for piling and shall be more than 50 feet from any cutting edge, standing tree, or existing road. Logs that do not meet Section 2045 Log Removal requirements, chunks larger than 12 inches diameter, and stumps shall be left scattered in the Unit for wildlife habitat away from roads and landings.

<u>Pile Construction</u> - all landing piles, and in-unit piles greater than 9 feet by 9 feet by 9 feet, shall have no smaller than a 200 square feet of polyethylene plastic sheeting or enough to cover 50% of the pile. Start the pile with good burnable material such as conifer limbs and chunks, 6 to 8 feet high, add plastic, and complete the pile with Slash on the plastic.

<u>Protective Measures</u> - shall comply with Oregon Forest Practice Rules issued per ORS 527.610 to 527.992. Examples of protective measures are: (1) waterbarring tractor trails where necessary to prevent runoff toward streams; (2) not windrowing in streams or streamways; and (3) leaving Stream Buffers along designated streams.

Work specifications may be modified or waived only upon written notice from STATE.

EXHIBIT G

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Equipment Type, Equipment Operation, and Conduct of Work

The specifications given below are requirements for equipment type, equipment operation, and conduct of work under the contract.

<u>Shovel</u> - shall be a track-mounted machine with a ground-pressure rating of not more than <u>6.8</u> PSI and a net horsepower of <u>85</u> or more. The machine shall be capable of a minimum horizontal reach of <u>26</u> feet and a minimum vertical reach of 16 feet.

Log Loader – shovel: Grapple with rake attachment shall be a hydraulically controlled, with a 360-degree
continuous rotation, and tooth length on rake arm shall be greater than 14 inches long, unless otherwise
approved in writing by STATE.

Equipment	Rate	Acres	Appraised Value
Log Loader	\$250 / acre	5	\$1,250

<u>Operator</u> - must be experienced in operating similar equipment on land clearing operations, be able to operate the equipment proficiently, and pile the debris on the area as directed by STATE.

<u>Support</u> - including transport, other equipment, replacements, supplies, maintenance, and repairs shall be furnished as required to complete work; and shall be furnished without cost to STATE, other than as agreed under the contract terms.

<u>Work Scheduling</u> - work shall be accomplished only during dry weather conditions, and started within 14 calendar days after completion of yarding activities on the Timber Sale Area. Operations shall provide for continual operation until contract work is completed, unless interrupted by poor weather, fire closures, or other uncontrollable circumstances. Equipment breakdowns shall be repaired without undue delay, and provision shall be made for replacement of equipment to prevent prolonged delays. Piling operation shall not be allowed when operations might damage sites or affect stream flows. Any exception to these instructions must be authorized in writing by STATE.

STATE Representative - shall provide directions for the conduct of work according to specifications.

PART IV: OTHER INFORMATION

WRITTEN PLAN Neverstill #FG-341-2022-W00882-01

LEGAL DESCRIPTION: Portions of Section 35, T1S, R6W, W.M., Washington County, Oregon.

<u>PROTECTED RESOURCE</u>: An unnamed medium Type-F stream that is a tributary to Barney Reservoir that flows north and interior of the Timber Sale Area. Two small Type-F streams flow interior of the Timber Sale Area and are tributaries to the medium Type-F stream.

<u>DESCRIPTION OF THE AREA:</u> Slopes adjacent to these Type-F streams range from 5% in the flood plane to 80% immediately upslope. Streamside vegetation along these Type-F streams includes Douglas-fir, western red cedar, and red alder.

<u>PROTECTION MEASURES</u>: The Timber Sale Boundary was posted an average horizontal distance of 115 feet from the protected resources. However, skyline cables may hang over these Stream Buffers on the opposite slope or ridge to facilitate logging. When cables pass through or over the Stream Buffers, all necessary precautions shall be taken to protect all Stream Buffer components, including locating corridors at least 100 feet apart and pulling cables out of the Stream Buffer prior to rigging the next yarding road. Trees felled within the Stream Buffer for cable corridors shall not be yarded.

Prepared by: _	Mark Savage	03/08/2022
	Mark Savage	Date
Reviewed by:	Jup P. Ped	03/09/2022
	Jeff Peck; Unit Forester	Date