PART III: EXHIBITS

State Timber Sale Contract No. 341-16-71 Filched

EXHIBIT B

Page 1 of 3 629-Form 341-203 Revised 06/97

OREGON DEPARTMENT OF FORESTRY

TIMBER SALE OPERATIONS PLAN

(See Page 2 for instructions)

Date	Received by STATE:	_ (5)	State Brand Inform	nation (complete):		\bigcap
(1)	Contract No.: <u>341-16-71</u>	_				
(2)	Sale Name: Filched					~
(3)	Contract Expiration Date: December 31, 201	- 7 Proie	ect Completion Dat	es:		
(4)	Purchaser:					
(6)	Purchaser Representatives:			Cell/Other		
	Projects:	Ph	none:	Phone:	Hom	ne:
				Cell/Other		
	Projects:	Ph	none:	Phone:	_ Hom	ne:
	Projects:	Ph	none:	Cell/Other Phone:	Hom	ne:
	1 10,000.			Cell/Other		
	Projects:	Ph	none:	Phone:	_ Hom	ne:
		DI		Cell/Other		
	Logging:	Pr	none:	Phone: Cell/Other	_ Hom	ne:
	Logging:	Ph	none:	Phone:	Hom	ne:
			·	Cell/Other	_	-
	Logging:	Ph	none:	Phone:	_ Hom	ne:
	Logging:	Ph	none:	Cell/Other Phone:	Hom	ne:
(7)						
(7)	State Representatives:			Cell/Other		
	Projects:	Ph	none:	Phone:	Hom	ne:
				Cell/Other		
	Logging:	Ph	none:	Phone:	_ Hom	ne:
(8)	Name of Subcontractors & Starting Dates:					
	Projects: No(s)	Date:		Phone:		
	No(s)	Date:		Phone:		
	No(s)	Date:		_ Phone:		
	No(s)	Date:		_ Phone:		
	Logging: Felling	Date:		Phone:		
	Yarding:	Date:		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.

EXHIBIT B

INSTRUCTION SHEET FOR OPERATIONS PLAN

SUBMIT ONE COPY OF PLAN TO 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.
 - 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:
 - 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 those required by the timber sale contract. Provide spur road specifications.
 - 3. Location of proposed tractor yarding roads. Show if and how marked on the ground.
 - Location of temporary stream crossings.
 - 5. List the sequence of performing project work.
 - 6. Location of rock sources attach pit development plans.

1	Cable Landing, with numbers for sequence.
A	Tractor Landing with alphabetical sequence.
	Approximate setting boundary.
	Spur truck roads.
~~	Tractor yarding roads.
Χ	Temporary stream crossings.

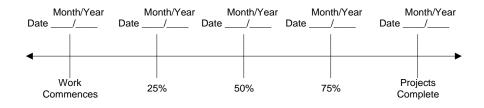
EXHIBIT B

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.

Projects



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, PURCHASERS 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:
STATE OF OREGON - DEPARTMENT OF FORESTRY	PURCHASER
Title	Title

Original: Salem cc: District File Purchaser

Operations Plan.doc/Jaz B (TS)

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EXHIBIT C – SAWMILL GRADE (WESTSIDE SCALE) SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	ORIGINAL F	REGISTRATION		ate			(9)	SALE NAME: Filched
	REVISION N	IUMBER	☐ Da	ate		_		COUNTY: Benton
	CANCELLA	ΓΙΟΝ	☐ Da	ate		_	(10)	STATE CONTRACT NUMBER: 341-16-71
(2)	TO:	(Third Party Scalin	g Organiza	ation)		_	(11)	
(3)		st Oregon (01) P						
(0)		te Forestry District)	10110 (0)	11) 020	020	<u> </u>	(12)	STATE BRAND INFORMATION (COMPLETE):
	Address 245	<u>33 Alsea Highway, Phil</u>	omath, OR	R 97370-	9112	_	(12)	CONTRACTOR (CONTRACTOR).
(4)	PURCHASE	R:				_		
		ess:						
	Phone Numb	oer:				_		
(5)	MINIM	JM SCALING SPE	CIFICA	TIONS]	
	0050150	A 41A 11A 41 1A	A NIET VOI				1	
	SPECIES Conifers	MINIMUN	<u>1 NET VOL</u> 10	LUME			(12)	PAINT REQUIRED: YES ☒
	Hardwoods		10				(13)	COLOR: Orange
								<u>g-</u>
	* Apply minimum vol	ume test to whole logs over 40	'Westside				(1	4) SPECIAL REQUESTS (Check applicable)
				YES	NO		PE	EELABLE CULL (all species)
(6)	WESTSIDE	SCALE: taper rule. Logs over 40'.		\boxtimes	Ш			D DEDUCTIONS ALLOWED FOR
	Ose Region o actual	taper rule. Logs over 40.					М	ECHANICAL DAMAGE
(7)	Weight Scale	e Sample			\boxtimes		Αſ	DD-BACK VOLUME - Deductions due to delay
								THER:
			T	1	1	ı	, [IIILIX.
(8)	APPROV	ED SCALING	es	-	×	þţ	(15)	REMARKS
	LOCATIO	NS	Species	Yard	Truck	Weight		
(as s	shown on the ODF App	proved Locations web-site)	જ		_	>		
							Opera	ator's Name (Optional inclusion by District):
								SIGNATURES:
							(10)	CIGIO (TORLE).
								Purchaser or Authorized Representative Date
							1	
							1	State Forester Representative Date
							1	
							1	State Ferenter Pennscentative PRINT NAME
							1	State Forester Representative PRINT NAME
							1	
-				-		1	-	

Notify the District within one hour when branding or painting is inadequate for quick identification, the receipts are missing, not correctly or completely filled out, and/or when logs presented for scaling are impossible to scale accurately.

EXHIBIT C – SAWMILL GRADEINSTRUCTIONS FOR FORM 343-307a (rev. 11/11)

(1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers, date and sign where indicated, write diagonally across page "CANCEL", and send to TPSO.

Pacific Rim Log Scaling Bureau, Inc.

Yamhill Log Scaling & Grading Bureau

P.O. Box 709, Forest Grove, OR 97116

Pacific Log Scaling & Grading Bureau, Inc.

P.O. Box 23939, Portland, OR 97281

Phone: (360) 528-8710

Email: office@prlsb.com

Phone: (503) 359-4474

Phone: (503) 684-5599

Email: yamhill@attglobal.net

Email: PacLogScale@aol.com

8288 28th Court North East, Lacey, WA 98516

Fax: (360) 528-8718

Fax: (503) 359-4476

Fax: (503) 639-4880

(2) Designate Third Party Scaling Organization (TPSO).

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

5526 NE 122nd Ave, Portland, OR 97230

Phone: (503) 254-0600 Fax: (503) 408-0919

Email: info@nwlogscalers.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 specifics 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: http://www.odf.state.or.us/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 conversion factors, per load volumes, 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 and print name on the form.

State Timber Sale Contract No. 341-16-71 Filched Page 3 of 4 629-Form 343-307b Revised 11/11

EXHIBIT C - PULP SORT

PROCESSING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	ORIGINAL REGISTRATION	(9)	SALE NAME: Filched
	REVISION NUMBER Date CANCELLATION Date		COUNTY: Benton
(2)	TO:	(10)	STATE CONTRACT NUMBER: 341-16-71
(3)	(Approved Pulp Processing Facility) FROM: West Oregon (01) Phone (541) 929-3266	(11)	STATE BRAND REGISTRATION NUMBER
	(State Forestry District)	(12)	STATE BRAND INFORMATION: (COMPLETE BELOW)
(4)	PURCHASER:		
(5)	Scaling Bureau (TPSO) Processing Weight receipts: Mailing Address: Phone Number:		
(6)	STATE Definition of Approved Pulp Sort:		
	 Top portion of the tree (tops). All logs with a diameter (Big End) greater than8_ inches marked with blue paint. 	(13)	REMARKS: "Mule Train" loads require a load ticket for each set of bunks.
(7)	 PULP FACILITY PROCESSING INSTRUCTIONS: Pulp loads shall be weighed in lieu of scaling. One Ton = 2000 lbs (Short Ton). 	Oper	ator's Name (Optional inclusion by District):
	 Pulp loads shall have a yellow Log Load Receipt attached. Gross weight and truck tare weight for each load shall be machine printed on the weight receipt. Weigher shall sign the weight receipt. 	(14)	SIGNATURES:
	 Weigher shall record the Log Load Receipt number on the weight receipt. Weigher shall attach the Weight receipt to the 		Purchaser or Authorized Representative Date
	Log Load Receipt and mail them weekly to the TPSO processing the Weight receipt.		State Forester Representative Date
(8)	TPSO PROCESSING INSTRUCTIONS • Mail to ODF weekly.		State Forester Representative PRINT NAME

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.

• Convert to mbf using 10 tons per mbf.

Distribution: ORIGINAL: Salem / COPIES: TPSO, Approved Pulp Processing Location, Purchaser, District, Mgmt. Unit

EXHIBIT C - PULP SORT

INSTRUCTIONS FOR FORM 343-307b (rev. 11/11)

- (1) Must Complete. Check appropriate box. REVISION NUMBER requires comments in the Remarks Section (13). CANCELLATION requires logging and hauling to be complete, recall branding hammers, date and sign where indicated, write diagonally across page "CANCEL", and send to TPSO.
- (2) **Must Complete**. Approved Pulp Processing Facility. Write in as written in the Approved Log Delivery Location http://www.odf.state.or.us/DIVISIONS/management/asset_management/ScalingLocation.asp
- (3) Must Complete. State Forestry District and District Phone Number.
- (4) **Must Complete**. Purchaser's business name as it appears on the Contract.
- (5) **Must Complete.** 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 . 5526 NE 122nd Ave, Portland, OR 97230 Phone: (503) 254-0600 Fax: (503) 408-0919

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: yamhill@attglobal.net

Pacific Log Scaling & Grading Bureau, Inc. P.O. Box 23939, Portland, OR 97281

Phone: (503) 684-5599 Fax: (503) 639-4880

Email: PacLogScale@aol.com

- (6) **Must Complete.** Big end log not to exceed _____ inches. 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) **Must Complete**. Enter sale name and county. If more than one county write in all the counties that the sale is located in.
- (10) Must Complete. Enter sale Contract number.
- (11) Must Complete. Enter Oregon's State Brand Registry Number (REQUIRED).
- (12) **Must Complete**. 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) **Must Complete.** Purchaser required to sign and date completed form in addition to State Forester Representative, sign <u>and</u> print name on the form.

Salem Distribution Instructions: Original will be mailed to Salem after it is electronically scanned and placed in the Salem transfer drive \\WPODFFILL01\Transfer\ScalingInstructions or e-mailed directly to scaling@oregon.gov. Scaling instructions for each brand should be scanned separately, for each approved TPSO.

FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DRAINAGE
16 feet	12 feet	A to A1	0+00 to 197+20	Ditch
14 feet	12 feet	A2 to A3	0+00 to 3+20	No Ditch
14 feet		A3 to A4	0+00 to 13+00	No Ditch
14 feet		A5 to A6	0+00 to 2+10	No Ditch
14 feet	12 feet	A7 to A8	0+00 to 5+20	No Ditch
14 feet		A9 to A10	0+00 to 1+80	No Ditch
14 feet	12 feet	A11 to A12	0+00 to 7+00	No Ditch
16 feet	12 feet	A1 to B	0+00 to 138+00	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.

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. Clearing debris shall not be placed or permitted to remain in or under any road embankment sections. Clearing debris shall not be left lodged against standing trees.

All danger trees, leaners, and Snags outside the clearing limits which could fall and hit the road shall be felled.

GRUBBING. 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 debris shall not be placed or permitted to remain in or under any road embankment sections. Grubbing debris shall not be left lodged against standing trees.

GRUBBING CLASSIFICATION.

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

Improvements and reconstructions - 4 feet back from the shoulder of the subgrade or ditch, whichever is widest, or as marked in the field.

<u>CLEARING AND GRUBBING DISPOSAL</u>. Scatter in stable locations through openings in the timber outside of the cleared right-of-way, except areas where end-haul is required. In areas where end-haul is required, clearing and grubbing debris shall be fully contained and hauled to a designated waste area. Clearing and grubbing debris shall be left in a stable location, and not left lodged against standing trees.

Page 2 of 20

EXHIBIT D

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. Plans are available between points A3 to A4 and A7 to A8.

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.

All fills shall be machine compacted according to the "Compaction and Processing 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 at 4 to 6 percent or outsloped at 3 to 4 percent as shown on the "Forest Road Specifications" table in this Exhibit.

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

Ditchouts. 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 50 feet, or as staked on the ground, plus 25-foot approaches at each end.

Location: As marked in the field.

<u>SLOPES</u>	Back Slopes	Fill Slopes
Solid Rock	Vertical to 1/4:1	
Fractured Rock	1⁄2:1	
Soil - side slopes 50% and over	³ ⁄ ₄ :1	1½:1
Soil - side slopes less than 50%	1 :1	1½:1

Top of cutslope shall be rounded.

<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 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.

TURNAROUNDS. 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 D, and blocked from vehicular traffic prior to October 1, annually and as directed by STATE.

FOREST ROAD SPECIFICATIONS

GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

Project No. 1

- (1) <u>Timber Removal</u>. Remove all trees within posted right-of-way boundary as specified in Section 2210, "Designated Timber."
- (2) <u>Excavated Materials</u>. Excavated materials shall be utilized for road construction and hauled in where necessary. 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. Fills shall be thoroughly compacted in accordance with this Exhibit.
- (3) Subgrade Preparation and Application of Surfacing Rock.
 - (a) Complete culvert installations, drainage ditches, ditchouts, fill construction, and other specified work prior to the application of surfacing rock.
 - (b) Subgrade shall be crowned at 4 to 6 percent or outsloped at 3 to 4 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.

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

Project No. 1

<u>Segment</u>	<u>Station</u>	Work Description:
A3 to A4	0+00 to 12+50	Construct new outsloped unsurfaced road with excavator and dozer. Right-of- way is posted. Plans are available at the Philomath office. End haul approximately 850 CY waste material to Landing at A to A1 Station 139+50 and compact with vibratory roller.
	12+50 to 13+00	Construct Landing at Point A4.
	0+00 to 13+00 0+00	Shape outsloped subgrade with road grader. Apply 1½-0" junction patch rock at Point A3.
A5 to A6	0+00 to 1+60	Construct new outsloped unsurfaced road with dozer. Right-of-way is posted.
	1+60 to 2+10	Construct Landing at Point A6.
	0+00 to 2+10	Shape outsloped subgrade with road grader.
A7 to A8	0+00 to 4+70	Construct new outsloped unsurfaced road with dozer. Right-of-way is posted. Plans are available at the Philomath office.
	0+00 to 5+20	Construct Landing at Point A8.
	0+00 to 5+20	Shape outsloped subgrade with road grader.
	0+00 to 5+20	Compact subgrade with vibratory roller.
	0+00 to 4+70	Apply and process an 8" lift of 3-0" crushed rock.
	4+70 to 5+20	Apply jaw run rock to Landing at Point A8.
	0+00	Apply 1½-0" junction patch rock at Point A7.

FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT INSTRUCTIONS:

Project No. 2

- (1) <u>Timber Removal</u>. Remove all trees within posted Right-of-Way Boundary as specified in Section 2210, Designated Timber.
- (2) <u>Excavated Materials</u>. Excavated materials shall be utilized for road and fill construction and hauled in where necessary. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Waste materials shall be sloped and compacted for drainage. Fills shall be thoroughly compacted in accordance with Exhibit D.
- (3) <u>Bank Slough Removal</u>. Dig out all bank slough. Bank slough material shall not be pulled across existing surfacing rock, but shall be placed in nearby waste areas and uniformly sloped and compacted for drainage, as directed by STATE.
- (4) <u>Culvert Replacement, Culvert Installation, Fill Reconstruction, and Fill Removal</u>. Existing culvert geometry shall be modified to provide for optimum drainage and culvert performance. Modifications may include, skewing the culvert and/or installing the culvert at gradients equal to or exceeding the drainage (or ditch) gradient. Where fill reconstruction or culvert replacement is specified, fills shall be excavated to natural stream course levels. All woody debris encountered during fill excavation shall be removed. All waste materials shall be hauled to nearby waste areas and shall be uniformly sloped and compacted for drainage. Fill reconstruction backfill shall consist of select materials and may be obtained from borrow pits, as directed by STATE. Backfill materials shall be hauled in where necessary and thoroughly compacted in accordance with this Exhibit. Crushed rock shall be used for backfilling excavation trenches less than 3 feet deep. STATE may require the use of crushed rock for culvert bedding. Removed culverts shall be hauled off of STATE land.
- (5) <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. 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 and uniformly sloped and compacted for drainage, as directed by STATE. Damaged culvert inlets and/or outlets shall be repaired by opening them with a hydraulic jack, or cutting off the culvert end to allow for free passage of water at peak flow levels. Install a culvert marker at each newly installed culvert and at each existing culvert that is missing a marker that could be reached by a grader blade.
- (6) <u>Subgrade Preparation and Application of Surfacing Rock.</u>
 - (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) Apply required patching and leveling rock, as directed by STATE.
 - (d) Process (grade and mix) the existing surface and added base rock. Provide for a crown of 4 to 6 percent or outslope of 3 to 4 percent, and compact in accordance to the "Compaction and Processing Requirements" in this Exhibit.

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

Project No. 2

Segment	Station	Work Description:
A to A1	14+20 21+70 139+50 139+50 124+10 to 183+50 0+00 to 197+20	Install cross drain culvert, compact fill, and apply patch rock. Install cross drain culvert, compact fill, and apply patch rock. Construct Landing. Apply jaw run rock to Landing. Remove uprooted stumps from cut banks, bank slough, and re-establish ditches with excavator. End haul material to A to A1 Station 139+50. Shape crowned surface with road grader and re-establish ditches where needed. Apply spot rock in conjunction with grading. Apply and process turnout rock to turnouts.
	0+00 to 197+20 0+00 to 3+20	Clean out culverts (8). Shape outsloped surface with road grader.
A2 to A3 A9 to A10	0+00 to 1+80 1+30 to 1+80	Re-open outsloped unsurfaced road with dozer. Construct Landing.
A11 to A12	0+00 to 6+50 6+50 to 7+00 0+00 to 7+00 0+00 to 7+00 0+00 to 6+50 6+50 to 7+00	Re-open outsloped unsurfaced road with dozer. Re-open Landing at Point A12. Shape outsloped subgrade with road grader. Compact subgrade with vibratory roller. Apply and process an 8" lift of 3-0" crushed rock. Apply jaw run rock to Landing at Point A12. Apply 1½-0" junction patch rock at Point A11.
A1 to B	0+00 to 138+00 35+80	Shape crowned surface with road grader and re-establish ditches where needed. Apply spot rock in conjunction with grading. Develop turnaround at junction and apply rock.

SPECIFIC POST HARVEST INSTRUCTIONS

Project No. 3 - Rock Stockpile

Stockpile 500 cubic yards of 3-0" crushed rock at Point S1. Stockpile 500 cubic yards of $1\frac{1}{2}$ -0" crushed rock at Point S2.

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS (cont.)

Project No. 4 – Post Harvest

Clear debris off Landings on surfaced roads, place in a stable location, and establish drainage. Burnable material shall be a minimum of 50 feet from reserve timber.

<u>Segment</u>	<u>Station</u>	Work Description:
A to A1	139+50 to 183+50	Apply Landing patch rock.
A3 to A4	0+25	Construct tank trap.
A7 to A8	Point A8	Apply turnaround rock.
A9 to A10	0+25	Construct tank trap.
A11 to A12	Point A12	Apply turnaround rock.

EXHIBIT D FULL BENCH AND END-HAUL REQUIREMENTS

POINT TO POINT	STA. TO STA.	CONTAINMENT - SIDECAST	WASTE AREA LOCATION	WASTE AREA TREATMENT
A to A1	124+10 to 183+50	1	3 (A to A1 Station 139+50)	1 & 2
A3 to A4	0+00 to 2+00	1	3 (A to A1 Station 139+50)	1 & 2
A7 to A8	1+10 to 3+00	2	3 (landing at A8)	1 & 2

Full Bench and End-Haul Areas General Requirements

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. Material shall not be sidecast unless specified above.

Containment/Sidecast

- (1) Full: No excavated material remains below the road.
- (2) Normal/Incidental: The amount of excavated material lost over the outside edge of the road shall not exceed 1 foot in depth.

Any amount of material exceeding the containment requirements shall be removed by whatever means necessary and end-hauled to a designated waste area.

Waste Area Location

- (1) As shown on Exhibit A and as marked in the field.
- (2) Setback from slope break shall be a minimum of 20 feet horizontal measurement.
- (3) Excavated material is to be used in the road prism and compacted according to the specifications in Exhibit D.

Waste Area Treatment

- (1) Deposit at waste area, spread evenly, compact, and provide adequate drainage.
- (2) Pile woody debris separate from other waste material.

EXHIBIT D ROAD SURFACING

ROAD SEGMENT				POINT T	POINT TO POINT S		Sta. to Sta.		
				A to	A1	0+00 to	197+20	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	Volume (CY) per		Number of		VOLUME (TONS)
Spot rock	1½-0"	0+00 to 197+20	NA	75	mile	3.7	miles	279	377
Spot rock	3-0"	0+00 to 197+20	NA	25	mile	3.7	miles	99	134
Turnout rock	3-0"	0+00 to 197+20	NA	9	load	6	loads	54	73
Landing rock	jaw-run	139+50	NA	36	Landing	1	Landing	36	49
Patch rock	1½-0"	21+70	NA	9	load	2	loads	18	24
Post Harvest									
Landing patch rock	1½-0"	139+50 to 183+50	NA	9	Landing	5	Landings	45	61

ROAD SEGMENT				POINT T	O POINT	Sta. to	Sta.		
				A3 t	o A4	0+00 to	13+00	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	(CY) per	Number of		VOLUME (CY)	VOLUME (TONS)
Junction patch rock	1½-0"	Pt. A3	NA	9	junction	1	junction	9	12

ROAD SEGMENT					O POINT	Sta. to	Sta.		
				A7 t	A7 to A8		0+00 to 5+20		TOTAL
Application	Application ROCK SIZE Location		Depth of Rock (inches)	Volume (CY) per		Number of		VOLUME (CY)	VOLUME (TONS)
Surface rock	3-0"	0+00 to 4+70	8"	44	station	4.7	stations	207	279
Curve widening rock	3-0"	2+90 to 3+70	NA	36	curve	1	curve	36	49
Landing rock	jaw-run	Pt. A8	NA	36	Landing	1	Landing	36	49
Junction patch rock	1½-0"	Pt. A7	NA	9	junction	1	junction	9	12
Post Harvest									
Turnaround rock	3-0"	Pt. A8	NA	27	Landing	1	Landing	27	36

EXHIBIT D ROAD SURFACING

ROAD SEGMENT					O POINT	Sta. to	Sta.		
				A11 t	A11 to A12		7+00	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	(CY) per	Numb	per of	VOLUME (CY)	VOLUME (TONS)
Surface rock	3-0"	0+00 to 6+50	8"	44	station	6.5	stations	288	389
Landing rock	jaw-run	Pt. A12	NA	36	Landing	1	Landing	36	49
Junction patch rock	1½-0"	Pt. A11	NA	9	junction	1	junction	9	12
Post Harvest									
Turnaround rock	3-0"	Pt. A12	NA	18	Landing	1	Landing	18	24

ROAD SEGMENT					O POINT	Sta. to Sta.			
				A1 1	to B	0+00 to	138+00	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	(CY) per	Number of		VOLUME (CY)	VOLUME (TONS)
Spot rock	1½-0"	0+00 to 138+00	NA	75	mile	2.6	miles	198	267
Turnaround rock	3-0"	35+80	NA	18	TAR	1	TAR	18	24

ROCK CONVERSION FACTORS

Size	3/4-0"	1½-0"	3-0"	4-0"	jaw-run	pit run
Tons/CY	1.35	1.35	1.35	1.35	1.35	1.35

(Conversion factors from Hardrock Quarry)

		Maintenance Rock Volumes in CY						
Rock Size	3/4 - 0"	3/4 - 0" 1½-0" 3-0" 4-0" jaw-run pit run other						
Rock Totals	0	225	36	0	0	0	0	

		TOTAL ROCK VOLUMES						
Rock Size	3/4 - 0"	1½-0"	3-0"	4-0"	jaw-run	pit run	other	
Rock Totals CY	0	594	828	0	108	0	0	
Rock Totals								
TONS	0	802	1117	0	146	0	0	

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

Rock volumes rounded to the nearest 9 CY load.

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.

<u>Load Records</u>. Notify STATE before spreading the rock and maintain a record of all rock delivered for spreading. Make the record available for STATE inspection. A report listing the amount of rock delivered the prior month must be submitted no later than the 15th of each month.

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 at 4 to 6 percent or outsloped at 3 to 4 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
A7 to A8 & A11 to A12	1

<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.

Placing individual rocks or boulders with more depth than the allowed layer thickness shall be permitted, provided the embankment will accommodate them. Such rocks and boulders shall be at least 6 inches below the subgrade. They shall be carefully distributed and the voids filled with finer material, forming a dense and compacted mass. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
A to A1 (Sta. 14+20 and 21+70)	1 or 2
A to A1 (Sta. 139+50)	1 or 2
A7 to A8 (Sta. 3+60 to 5+20)	1 or 4

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 and compacted 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 at 4 to 6 percent or outsloped at 3 to 4 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
A7 to A8 & A11 to A12	1 & 3
A to A1 (Sta. 14+20 and 21+70)	2
Spot, junction patch, Landing patch, turnaround, and maintenance rock	1 or 3

COMPACTION EQUIPMENT OPTIONS

- (1) <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.
- (2) <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 (and/or bridge approach embankment materials around abutments). The tamper shoe dimensions shall be a minimum of 10" X 13" and capable of a centrifugal force of 2,250 pounds.
- (3) <u>Loaded Dump Trucks</u>. Dump trucks shall be routed over the entire cross section of the road surface. Loaded trucks shall cover all of the subgrade with a minimum of three passes.
- (4) <u>Crawler Tractor</u>. Equivalent to a D-7 Caterpillar or larger.

CULVERT SPECIFICATIONS

All culvert materials shall be furnished and installed by PURCHASER, unless otherwise specified in the Contract.

Culverts shall be constructed of double wall polyethylene.

Polyethylene culverts shall not be used where required culvert diameter is over 24 inches.

Polyethylene joints shall be made with split couplings, corrugated to engage the culvert corrugations, and shall engage a minimum of 4 corrugations, 2 on each side of the culvert joint.

Culverts shall be located according to the alignment and grade as shown on the Plan and Profile, and/or as staked in the field, or as specified in special instructions.

Cross drain culverts on road grades in excess of 3 percent shall be skewed at least 30 degrees from perpendicular to the road centerline, except that cross drain culverts at the low point of dips in roads shall not be skewed.

Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3 percent or greater than 10 percent.

The foundation and trench walls for all culverts shall be free from logs, stumps, limbs, stones, and other objects which would dent or damage the culvert. The culvert trench shall be excavated 3 culvert diameters wide to permit compaction and working on each side of the culvert. Tamping shall be done in 6-inch lifts, 1 culvert diameter each side of the culvert. Bedrock shall be excavated as required to provide a uniform foundation for the full length of the culvert.

A bedding of crushed rock as specified shall be placed to provide a wide band of support and to transmit the load from above evenly over the entire length of the culvert for all culverts.

Backfill shall consist of, crushed rock or job-excavated soil free of stumps, limbs, rocks, or other objects which would damage the culvert.

Transporting of the culvert shall be done carefully. Dragging or allowing free fall from trucks or into trenches shall not be permitted.

CULVERT SPECIFICATIONS

Minimum height of cover over top of culvert to subgrade when road is to be rocked shall be as follows: 12" for culverts 18" to 36" and 18" for culverts 42" to 96." Minimum vertical cover for other designs shall be as specified by STATE.

Lengths of individual culvert sections shall be not less than 10 feet, unless otherwise provided for in special instructions.

The ends of each culvert shall be free of logs and debris which would restrict the free flow of water.

The intake end of relief culverts shall be provided with a sediment catching basin 3 feet in diameter at the bottom. The outlet end of any culvert which would allow water to erode embankment soil shall be provided with an energy dissipator, half round, or other approved slope protection device. Construct lead-off ditches away from culvert outlets where the slope gradients restrict the free flow of water.

Compaction by tamping utilizing a Vibratory Hand-Operated or Backhoe-Mounted Tamper is required for all culverts.

All culverts scheduled for replacement shall become property of the PURCHASER and be removed from STATE land in the same project period in which replacement occurred.

A manufacturer's certification that the product was manufactured, tested, and supplied in accordance with this specification shall be furnished to STATE upon request.

Following are the minimum standard gauges for steel culvert and coupling bands. Some culverts may require different gauges and may be found in the culvert listing.

	Steel Culvert	Thickn	ess		Band W	idths (")
<u>Dia.</u>	<u>Gauge</u>	<u>Uncoated</u>	Coated	Band Gauges	<u>Annular</u>	<u>Helical</u>
12-15	16	(0.0598")	(0.064")	16	7	12
18-24	16	(0.0598")	(0.064")	16	12	12
30-36	16	(0.0598")	(0.064")	16	12	12
42	14	(0.0747")	(0.079")	16	12	12
48	14	(0.0747")	(0.079")	16	24	24
54	14	(0.0747")	(0.079")	16	24	24
60	12	(0.1046")	(0.109")	16	24	24
66-72	12	(0.1046")	(0.109")	16	24	24
78	12	(0.1046")	(0.109")	16	24	24
84	12	(0.1046")	(0.109")	16	24	24
90-120	12	(0.1046")	(0.109")	16	26	26

Culverts larger than 60" in diameter shall have 3" x 1" corrugations.

CULVERT LIST

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	MATERIAL TYPE	GAUGE	ROAD SEGMENT POINT TO POINT	STATION
1	18	30	CPP	NA	A to A1	14+20
2	18	30	CPP	NA	A to A1	21+70

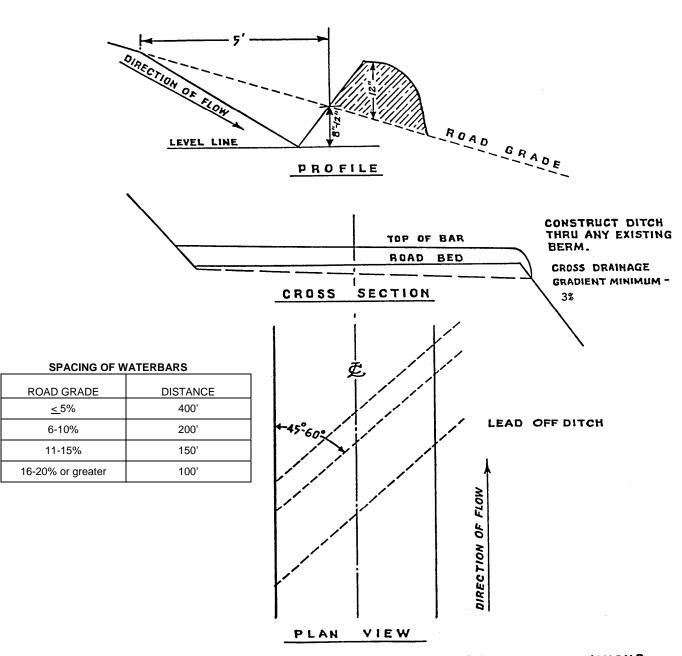
ACSP = Aluminized, CPP = Polyethylene, GCSP = Galvanized

DURABLE CRUSHED ROCK SPECIFICATIONS

Grading Requirements

For 1½"-0"	Passing	2" sieve	100%
	Passing	1½" sieve	90-100%
	Passing	3/4" sieve	60-90%
	Passing	1/4" sieve	30-50%
	Passing	No. 10 sieve	15-30%
	Passing	No. 40 sieve	7-15%
For 3"-0"	Passing	4" sieve	100%
	Passing	3" sieve	90-100%
	Passing	1½" sieve	60-90%
	Passing	3/4" sieve	40-60%
	Passing	1/4" sieve	20-40%
	Passing	No. 10 sieve	5-20%
For Jaw-Run	Passing	6" sieve	100%
	Passing	3" sieve	45-65%

EXHIBIT D
WATERBAR SPECIFICATIONS



WATERBAR SPECIFICATIONS FOR CROSS DITCHING #298

EXHIBIT D
TANK TRAP SPECIFICATIONS

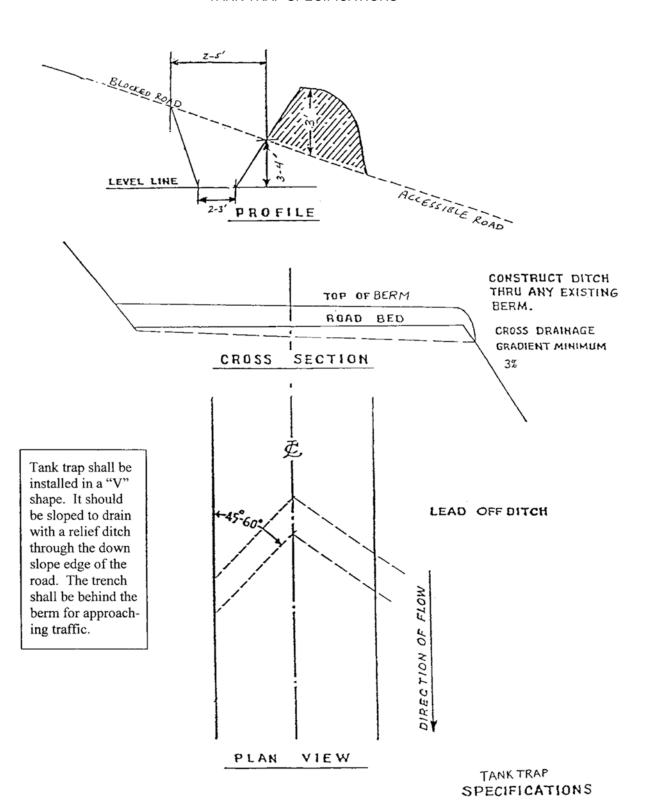


EXHIBIT E

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Description of Work to be Done

<u>Operational Areas</u>: There are approximately 31 acres located on the Timber Sale Area. 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, so that 80 percent or more of the soil organic layer is exposed. Pile Slash measuring greater than 2 inches in diameter but less than 10 inches in diameter at the largest end, and all brush as designated by STATE. Stack in compact, dirt-free piles. All woody vegetation other than trees is defined as brush in this exhibit.

<u>Piles</u> - Piles shall be located inside the project area designated for piling and shall be located at least 25 feet apart; at least 50 feet from any standing timber, snags or wildlife trees; and at least 50 feet from any property line. Piles shall be built to a height of 6 to 8 feet tall with steep sides and shall cover the smallest amount of ground possible at their base.

Logs and chunks which are suitable for firewood shall be piled separately from Slash, near roads and Landings and alongside the road in locations designated by STATE.

Conifer Trees - shall be saved, unless otherwise directed by STATE.

Skid Trails - shall be ripped to a depth of 12 inches.

<u>Residual Logs</u> – An average of 600 cubic feet of hard conifer logs per acre. Log shall contain a minimum of 10 cubic feet of volume and be no shorter than 6 feet in length. Two logs per acre shall be at least 24 inches in diameter, on the large end, where available. Hard conifer logs must be in decay class one or two as indicated by intact bark and original wood color. Trees or logs shall be left well distributed across the unit.

<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 E

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>10</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 <u>16</u> feet.

The bucket shall be a hydraulically controlled, 3- to 5-foot wide, "clamshell-style bucket with rake arms," 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.

<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.

Work Scheduling - 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.

Slash piling in the Timber Sale Area shall not be allowed from October 1 through May 31, unless otherwise approved in writing by STATE.

PURCHASER 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 and will inspect work to determine when contract specifications have been satisfied. **No piling work shall begin until STATE has met with PURCHASER and operator to discuss work to be done.** Piling equipment shall not be removed from operation areas until after STATE has approved completion.