## PART III: EXHIBITS

State Timber Sale Contract No. 341-17-72 Aire Apparent

## **EXHIBIT B**

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## OREGON DEPARTMENT OF FORESTRY

## **TIMBER SALE OPERATIONS PLAN**

(See Page 2 for instructions)

Date	Received by STATE:	(5) State Brand In	nformation (complete):	
(1)	Contract No.: 341-17-72	<u> </u>	(	
(2)	Sale Name: Aire Apparent	<u></u>		
(3)	Contract Expiration Date: September 30, 2019	Project Completion	Dates:	
(4)	Purchaser:			
(6)	Purchaser Representatives:			
	Projects:	Phone:	Cell/Other Phone:	Home:
	<u> </u>		Cell/Other	
	Projects:	Phone:	_ Phone: Cell/Other	Home:
	Projects:	Phone:		Home:
	<i></i>		Cell/Other	
	Projects:	Phone:		Home:
	Logging:	Phone:	Cell/Other Phone:	Home:
	Logging.	Thone.	Cell/Other	
	Logging:	Phone:		Home:
			Cell/Other	
	Logging:	Phone:		Home:
	Logging:	Phone:	Cell/Other Phone:	Home:
(7)	State Democratations			
(7)	State Representatives:		Cell/Other	
	Projects:	Phone:		_ Home:
	110,000.	Thone.	Cell/Other	
	Logging:	Phone:	Phone:	Home:
(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:		
	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:
  - 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 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.
  - 4. 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.
X	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.

	ED: Date: F OREGON - DEPARTMENT OF FORESTRY	SUBMITTED BY: PURCHASER	
Title _		Title	
Original: cc:	Salem District File Unit		

Operator
(Purchaser Representative)\_\_\_\_\_

Purchaser

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

(1) (2) (3)	ORIGINAL REC REVISION NUM CANCELLATION TO:	MBER ON (Third Party Scalin Oregon (01) Ph	☐ Date ☐ Date g Organizati	on)		- -	<ul> <li>(9) SALE NAME: <u>Aire Apparent</u> COUNTY: <u>Lincoln</u></li> <li>(10) STATE CONTRACT NUMBER: <u>341-17-72</u></li> <li>(11) STATE BRAND REGISTRATION NUMBER:</li> </ul>
(4)	Address 24533 A PURCHASER: Mailing Address Phone Number	 S:				_	(12) STATE BRAND INFORMATION (COMPLETE):
(6)	SPECIES Conifers Hardwoods  * Apply minimum volume  WESTSIDE SC Use Region 6 actual tape  Weight Scale S	MINIMUN test to whole logs over 40  ALE: r rule. Logs over 40'.	1 NET VOLU 10 10		NO		(13) PAINT REQUIRED: YES COLOR: Orange  (14) SPECIAL REQUESTS (Check applicable)  PEELABLE CULL (all species)
(8 (as	) APPROVED LOCATIONS shown on the ODF Approve	5	Species	Yard	Truck	Weight	(15) REMARKS: "Mule Train" loads require a load ticket for each set of bunks.
							Operator's Name (Optional inclusion by District):  (16) SIGNATURES:  Purchaser or Authorized Representative Date  State Forester Representative Date
							State Forester Representative Date  State Forester Representative PRINT NAME

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 GRADE**INSTRUCTIONS 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 122<sup>nd</sup> 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.

**Distribution (See specific instructions on pg. 2): ORIGINAL: Salem / COPIES: TPSO, Approved Scaling Location, Purchaser,**District, Mgmt. Unit

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## **EXHIBIT C - PULP SORT**

## PROCESSING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	ORIGINAL REGISTRATION   Date	(9)	SALE NAME: Aire Apparent	
	REVISION NUMBER Date		COUNTY: Lincoln	
	CANCELLATION Date			
(2)	TO:	(10)	STATE CONTRACT NUMBER: 341-17-72	
	TO:(Approved Pulp Processing Facility)	(11)	STATE BRAND REGISTRATION NUMBER	
(3)	FROM: West Oregon (01) Phone (541)929-3266 (State Forestry District)	` ,		
Addı	,	(12)	STATE BRAND INFORMATION: (COMPLETE BELO	W)
(4)	PURCHASER:		$\sim$	
(5)	Scaling Bureau (TPSO) Processing Weight receipts:			
	Mailing Address:			
	Phone Number:			
(6)	STATE Definition of Approved Pulp			
	<ul><li>Sort:</li><li>Top portion of the tree (tops).</li></ul>	(13)	REMARKS: "Mule Train" loads require a load ticket fo	r each
	All logs with a diameter (Big End) greater	(10)	set of bunks.	
	than8 inches marked with blue paint.	-		
(7)	<ul> <li>PULP FACILITY PROCESSING INSTRUCTIONS:</li> <li>Pulp loads shall be weighed in lieu of scaling.</li> <li>One Ton = 2000 lbs (Short Ton).</li> <li>Pulp loads shall have a yellow Log Load Receipt attached.</li> </ul>	Oper	ator's Name (Optional inclusion by District):	
	<ul> <li>Gross weight and truck tare weight for each load shall be machine printed on the weight receipt.</li> <li>Weigher shall sign the weight receipt.</li> <li>Weigher shall record the Log Load Receipt</li> </ul>	(14)	SIGNATURES:	
	number on the weight receipt.		Purchaser or Authorized Representative Da	te
	Weigher shall attach the Weight receipt to the			
	Log Load Receipt and mail them weekly to the TPSO processing the Weight receipt.		Otata Farantan Damas antatica	4-
	11 00 processing the Weight receipt.		State Forester Representative Da	ie
(8)	TPSO PROCESSING INSTRUCTIONS			
	<ul><li>Mail to ODF weekly.</li><li>Convert to MBF using 10 tons per MBF.</li></ul>		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.

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: <a href="mailto:services@crls.com">services@crls.com</a>

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 122<sup>nd</sup> 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 <a href="maileo-scaling@odf.state.or.us">scaling@odf.state.or.us</a>. Scaling instructions for each brand should be scanned separately, for each approved TPSO.

## EXHIBIT D FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DRAINAGE
14 feet	14 feet	3A to 3B	0+00 to 3+40	Outslope
16 feet	14 feet	I1 to I2	0+00 to 91+60	Ditch
16 feet	N/A	I1 to I2	91+60 to 105+40	Outslope
14 feet	N/A	13 to 14	0+00 to 9+40	Outslope
14 feet	12 feet	I5 to I6	0+00 to 3+20	Ditch
14 feet	N/A	I5 to I6	3+20 to 19+00	Ditch
14 feet	N/A	I5 to I15	0+00 to 44+90	Ditch
14 feet	N/A	17 to 18	0+00 to 5+90	Outslope
14 feet	12 feet	I9 to I10	0+00 to 8+10	Outslope
14 feet	N/A	I11 to I12	0+00 to 6+90	Outslope
14 feet	12 feet	I13 to I14	0+00 to 5+50	Ditch
14 feet	N/A	I13 to I14	5+50 to 14+40	Outslope
14 feet	N/A	I16 to I17	0+00 to 5+60	Ditch
14 feet	12 feet	I18 to I19	0+00 to 4+40	Ditch
14 feet	12 feet	I20 to I21	0+00 to 2+00	Ditch
14 feet	N/A	l22 to l23	0+00 to 15+00	Outslope

<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.

#### FOREST ROAD SPECIFICATIONS

## 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.

<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.

All fills shall be machine compacted according to the "Compaction and Processing Requirements" in this Exhibit.

ROAD WIDTH LIMITATIONS. 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 or outsloped at 3 to 4 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, or as staked on the ground, plus 25-foot approaches at each end.

Location: as marked in the field.

## FOREST ROAD SPECIFICATIONS

SLOPES	Back Slopes	Fill Slopes
Solid Rock	Vertical to 1/4:1	
Fractured Rock	1⁄2:1	
Soil - side slopes 50% and over	<sup>3</sup> ⁄ <sub>4</sub> :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 roads not located behind a locked gate 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) <u>Equipment</u>. All excavation and riprap placement shall be performed using a minimum 1½ cubic-yard, track-mounted excavator.
- (4) <u>Subgrade Preparation and Application of Surfacing Rock.</u>
  - (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. Final road surface shall be crowned at 4 to 6 percent or outsloped at 3 to 4 percent.

## SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

## Project No. 1

<u>Segment</u>	<u>Station</u>	Work Description
3A to 3B	0+00- 2+90	Construct new surfaced road. Outslope at 3% to 4%. Construct landing at Point 3B. Compact subgrade with dozer. Apply and process an 8 inch lift of jaw run rock (170 cy). Apply jaw-run rock (40 cy) to Landing at Point 3B.

## 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>Fill Armor and Energy Dissipator Construction</u>. Where rock is specified for fill armor, rock shall be machine placed and tamped at a 1½:1 slope, beginning at the toe of the fill.
- (4) <u>Culvert Installation</u>. 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. 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 shall require the use of crushed rock for culvert bedding. Removed culverts shall be hauled to the West Oregon District office in Philomath if in usable condition, damaged culverts shall be hauled to an approved refuse site 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. 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.
- (6) <u>Equipment</u>. All excavation and riprap placement shall be performed using a minimum 1½ cubic yard, track-mounted excavator.
- (7) <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.

## FOREST ROAD SPECIFICATIONS

## SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

## Project No. 2

<u>Segment</u>	Station	Work Description
I1 to I2	0+00 - 91+60	Realign road from Station 3+00 to 3+80. Move center line 8 feet into bank and establish an 18 foot subgrade. Endhaul approximately 300 CY of material to waste Area (W). Process waste area with dozer. Place 60 CY pit-run fill armoring from Station 3+00 to 3+80. Apply 30 CY 3-0" patch rock from Station 3+00 to 3+80. Install culvert (18"x 35") at Station 23+60. Backfill with 20 CY of 1½-0" crushed rock, construct ditch-out. Construct turnouts (2) and apply 30 CY of 3-0"rock (60 CY total) at Stations 14+20 and 34+40. Re-establish ditches with grader and a backhoe where needed. Clean out culvert inlets and outlets (12). Scatter ditch waste material in stable locations away from streams. Apply 4 inch lift of 3-0" crushed rock (60 CY) from Point I1 to Station 1+90. Apply 200 CY of 3"-0" spot rock from Point I1 to Station 91+60.
	91+60 – 105+40	Shape unsurfaced road with road grader from Station 91+60 to Point I2. Outslope @ 3% to 4%.
13 to 14	0+00 – 9+40	Re-open outsloped unsurfaced road with dozer. Outslope @ 3% to 4%. Reopen Landing at Point I4 with dozer. Apply 30 CY 3-0" junction rock at Point I3.
15 to 16	0+00 – 19+00	Remove culvert (in usable condition) near Point I7 and backfill with material from the subgrade on I7 to I8. Haul removed culvert to the West Oregon ODF office. Clean out culvert inlets and outlets (3). Scatter waste material in stable locations away from streams. Apply 40 CY of 3"-0" spot rock from Point I5 to Station 3+20. Shape surfaced road with road grader from Point I5 to Station 3+20. Crown road @ 4% to 6%. Shape unsurfaced road with road grader from Station 3+20 to Point I6. Crown road @ 4% to 6%. Re-open Landing at Point I6 with road grader.
l5 to l15	35+30 – 36+20	Realign road from Station 35+30 to 36+20. Move center line 6 feet into bank and establish a 14 foot subgrade. Drift approximately 100 CY of material and incorporate into subgrade.
	0+00 – 44+90	Clean out culvert inlets and outlets (4). Scatter waste material in stable locations away from streams. Shape unsurfaced road with road grader from Point I5 to Point I16. Crown road @ 4% to 6%. Shape unsurfaced road with road grader from Point I16 to Point I15. Outslope @ 3% to 4%.
17 to 18	0+00 – 5+90	Re-open outsloped unsurfaced road with dozer. Outslope @ 3% to 4%. Drift approximately 30 CY of material from subgrade and use to backfill removed culvert on I5 to I6. Re-open Landing at Point I8 with dozer.

## FOREST ROAD SPECIFICATIONS

## SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS Cont.

## Project No. 2

Segment	<u>Station</u>	Work Description
l9 to l10	0+00 – 8+10	Re-open outsloped surfaced road with road grader. Outslope @ 3% to 4%. Reopen Landing at Point I10 with road grader. Apply 100 CY of 3"-0" spot rock from Point I9 to Point I10. Apply landing rock at Point I10 (40 CY jaw run). Shape surfaced road with road grader from Point I9 to Point I10. Outslope @ 3% to 4%.
I11 to I12	0+00 – 6+90	Re-open outsloped unsurfaced road with road grader. Outslope @ 3% to 4%. Re-open Landing at Point I12 with road grader. Apply 20 CY 3-0" junction rock at Point I11.
I13 to I14	0+00 – 5+50	Clean out culvert inlets and outlets (1). Scatter waste material in stable locations away from streams. Apply 20 CY 3"-0" junction rock at Point I13. Apply 50 CY of 3"-0" spot rock from Point I13 to Station 5+50. Shape surfaced road with road grader from Point I13 to Station 5+50. Crown road @ 4% to 6%.
	5+50 – 14+40	Re-open outsloped unsurfaced road with dozer from Station 5+50 to Point I14. Outslope @ 3% to 4%. Re-open Landing at Point I14 with dozer.
I16 to I17	0+00 – 4+40	Clean out culvert inlets and outlets (2). Scatter waste material in stable locations away from streams. Shape unsurfaced road with road grader from Point I16 to Point I17. Crown road @ 4% to 6%. Re-open Landing at Point I17 with road grader.
I18 to I19	0+00 – 4+40	Apply 20 CY 3-0" junction rock at Point I18. Apply 80 CY of 3-0" spot rock from Point I18 to Point I19. Apply landing rock at Point I19 (40 CY jaw run). Shape surfaced road with road grader from Point I18 to Point I19. Crown road @ 4% to 6%.
I20 to I21	0+00 – 2+00	Apply 20 CY 3-0" junction rock at Point I20. Apply 40 CY of 3"-0" spot rock from Point I20 to Point I21. Apply landing rock at Point I21 (40 CY jaw run). Shape surfaced road with road grader from Point I20 to Point I21. Crown road @ 4% to 6%.
I22 to I23	0+00 – 15+00	Shape unsurfaced road with road grader from Point I22 to Point I23. Outslope @ 3% to 4%.

Construction of this road segment is planned to be done with the King Wolf timber sale. Project completion date is October 31, 2017.

## EXHIBIT D FULL BENCH AND END-HAUL REQUIREMENTS

POINT TO POINT	STA. TO STA.	CONTAINMENT - SIDECAST	WASTE AREA LOCATION	WASTE AREA TREATMENT
I1 to I2	3+00 to 3+80	1	1	1 & 2
I5 to I15	35+30 to 36+20	1	2	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

Full: No excavated material remains below the road.

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) Incorporate excavated material into road subgrade.

## 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					INT TO OINT	Sta. t	o Sta.		
				3A to 3B		0+00 to 3+40		TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per		Number of		(CY)	(TONS)
Surface rock	jaw-run	0+00 to 3+40	8	48	Station	3.4	Stations	170	230
Landing rock	jaw-run	Pt. 3B	N/A	40	Landing	1	Landing	40	54

ROAD SEGMENT					INT TO OINT	Sta. t	o Sta.		
				l1	to I2	0+00 to	91+60	TOTAL VOLUME	TOTAL VOLUME
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volum	ne (CY) per	Num	ber of	(CY)	(TONS)
Turnout rock	3-0"	14+20, 36+40	6	30	Turnout	2	Turnouts	60	81
Junction rock	3-0"	0+00 to 1+90	4	27	Station	1.9	Stations	60	81
Fill armoring rock	pit run	3+00 to 3+80	N/A					60	81
Curve widening	3-0"	3+00 to 3+80	N/A	30	Curve	1	Curve	30	41
Spot rock	3-0"	0+00 to 91+60	N/A					200	270
Culvert bedding rock	1 1/2-0"	23+60	N/A	20	Culvert	1	Culvert	20	27

ROAD SEGMENT					INT TO OINT	Sta. t	o Sta.		
				13	3 to 14	0+00 t	o 9+40	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volum	ne (CY) per	Numl	per of	VOLUME (CY)	VOLUME (TONS)
Junction rock	3-0"	0+00 to 0+50	N/A	30	Junction	1	Junction	30	41

## EXHIBIT D ROAD SURFACING

ROAD SEGMENT				POINT TO POINT	Sta. to Sta.		
				15 to 16	0+00 to 3+20	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of	VOLUME (CY)	VOLUME (TONS)
Spot rock	3-0"	0+00 to 3+20	N/A			40	54

ROAD SEGMENT					OT TV TNIC	Sta. t	o Sta.		
				19 t	o I10	0+00 t	o 8+10	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	e (CY) per	Num	per of	(CY)	(TONS)
Landing rock	jaw-run	8+10	N/A	40	Landing	1	Landing	40	54
Spot rock	3-0"	0+00 to 8+10	N/A					100	135

ROAD SEG	MENT					OT TO TAIC	Sta. t	o Sta.		
					l11	to I12	0+00 t	o 6+90	TOTAL	TOTAL
Applicati	าก	Rock Size and Type	Location	Depth of Rock (inches)	Volume	e (CY) per	Numl	per of	VOLUME (CY)	VOLUME (TONS)
Junction roo	k	jaw-run	0+00 to 0+50	N/A	20	Junction	1	Junction	20	27

ROAD SEGMENT					NT TO DINT	Sta. t	o Sta.		
				l13	to I14	0+00 to	14+40	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	e (CY) per	Numl	oer of	VOLUME (CY)	(TONS)
Junction rock	3-0"	0+00 to 0+50	N/A	20	Junction	1	Junction	20	27
Spot rock	3-0"	0+00 to 5+50	N/A					50	68

## EXHIBIT D ROAD SURFACING

ROAD SEGMENT					OT TV TNIC	Sta. t	o Sta.		
				l18	to I19	0+00 t	o 4+40	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	e (CY) per	Num	per of	(CY)	(TONS)
Landing rock	jaw-run	4+40	N/A	40	Landing	1	Landing	40	54
Junction rock	3-0"	0+00 to 4+40	N/A	20	Junction	1	Junction	20	27
Spot rock	3-0"	0+00 to 4+40	N/A					80	108

ROAD SEGMENT					NT TO DINT	Sta. t	o Sta.		
				120	to I21	0+00 t	o 2+00	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	e (CY) per	Num	ber of	(CY)	(TONS)
Landing rock	jaw-run	2+00	N/A	40	Landing	1	Landing	40	54
Junction rock	3-0"	0+00 to 2+00	N/A	20	Junction	1	Junction	20	27
Spot rock	3-0"	0+00 to 2+00	N/A					40	54

## **ROCK CONVERSION FACTORS**

Size	1 1/2-0"	3-0"	jaw-run	pit run
Tons/CY	1.35	1.35	1.35	1.35

(Conversion factors from Hardrock Quarry)

	Mainten	ance Ro	ck Volumes	in CY
Rock Size	1 1/2-0"	3-0"	jaw-run	pit run
Rock Totals	200	70		

	ТОТ	AL ROC	K VOLUME	S
Rock Size	1 1/2-0"	3-0"	jaw-run	pit run
Rock Totals CY	220	820	350	60
Rock Totals TONS	297	1107	473	81

## **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 must be submitted weekly.

## 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 shall be outsloped at 3 to 4 percent as specified in the "Forest Roads Specifications" table in Exhibit D. 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:

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
All road segments	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	
All road segments.	1 or 2	

## 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	
All road segments	1 or 3	

#### **COMPACTION EQUIPMENT OPTIONS**

- (1) <u>Crawler Tractor</u>. A crawler tractor weighing 30 tons or more shall be routed over the entire cross section of the road surface a minimum of three passes.
- (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. 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.

## **CULVERT SPECIFICATIONS**

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

Culverts shall be constructed of corrugated double-walled polyethylene.

Polyethylene culverts shall be double-walled and meet the requirements of AASHTO M-294-06, Type S, **or** ASTM F2648 Culvert.

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.

The STATE Representative shall determine final culvert locations and stake the locations in the field prior to installation.

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 drains shall be skewed to fit the required culvert length to the road prism.

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, rock crusher reject, 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" [add 6" for roads which will not be rocked]. 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 dissipater, 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 be removed from STATE land and hauled to the West Oregon ODF office in Philomath in the same project period in which replacement occurred.

The intake ends of culverts in fills less than 3 feet to the top of the culvert shall be marked by driving white fiberglass posts within 6 inches of the downgrade side. Posts shall be a minimum of 6 feet long with the end driven 2 feet into the ground.

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

## **CULVERT LIST**

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	MATERIAL TYPE	GAUGE	ROAD SEGMENT POINT TO POINT	STATION
1	18	35	CPP		l1 to l2	23+60

CPP = Polyethylene

## **CRUSHED ROCK SPECIFICATIONS**

<u>Materials</u>. The material shall be fragments of rock crushed to the required size. The material shall be free from vegetation and lumps of clay.

Rock strength: for rock not produced from STATE quarries, the material from which base material is produced or manufactured shall meet the following test requirement for Aggregate Hardness - Test Method AASHTO T 96 percent Maximum.

## **DURABLE CRUSHED ROCK SPECIFICATIONS**

## **Grading Requirements**

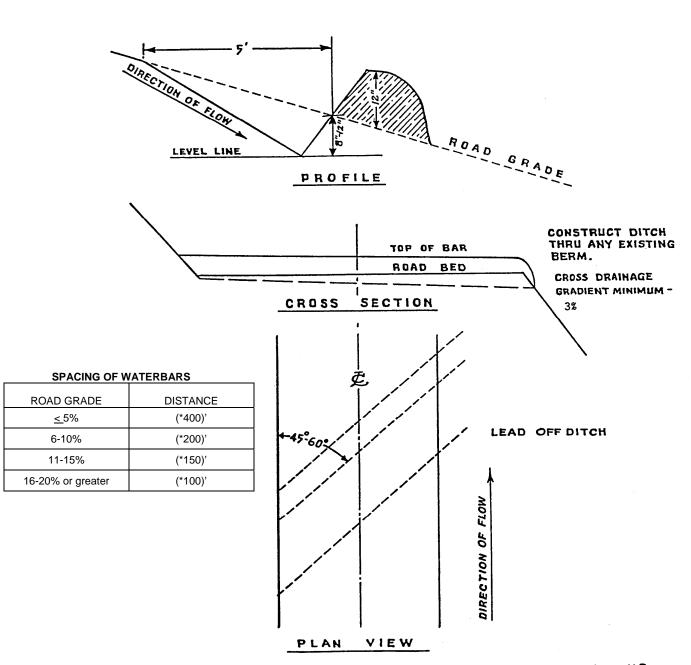
For 1½"-0"	Passing Passing Passing Passing Passing Passing Passing	2" sieve 1½" sieve 3/4" sieve 1/4" sieve No. 10 sieve No. 40 sieve	100% 90-100% 60-90% 30-50% 15-30% 7-15%
For 3"-0"	Passing Passing Passing Passing Passing Passing Passing	4" sieve 3" sieve 1½" sieve 3/4" sieve 1/4" sieve No. 10 sieve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

## JAW-RUN and PIT-RUN ROCK SPECIFICATIONS

For Jaw-Run	Passing	6" sieve	100%
	Passing	3" sieve	45-65%
For 6"-0" Pit-Run	Passing	10" sieve	100%
	Passing	6" sieve	60-85%
	Passing	3" sieve	30-50%
	Passing	1/4" sieve	0-20%

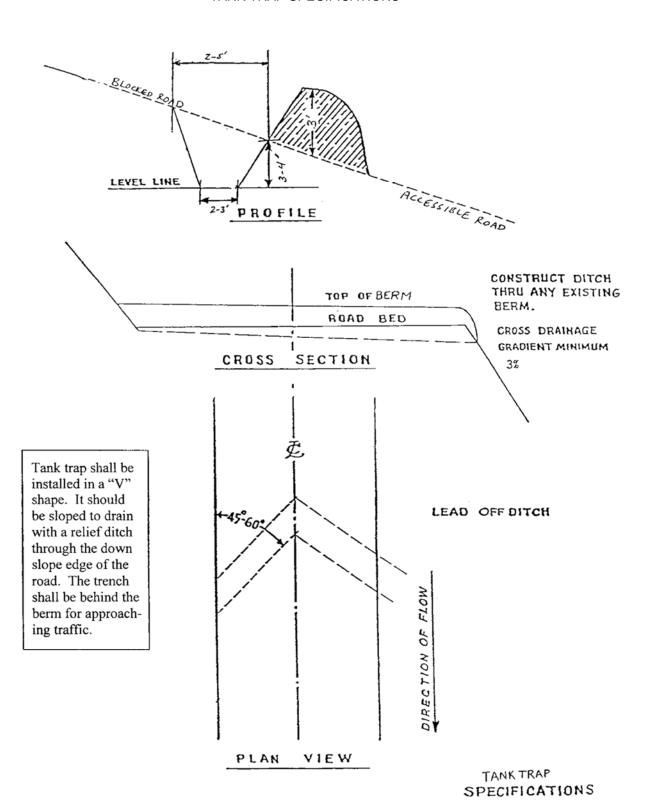
Control of gradation shall be by visual inspection by STATE.

EXHIBIT D
WATERBAR SPECIFICATIONS



WATERBAR SPECIFICATIONS FOR CROSS DITCHING #298

EXHIBIT D
TANK TRAP SPECIFICATIONS



## PART IV: OTHER INFORMATION

State Timber Sale Contract No. 341-17-72 Aire Apparent

## **FPA** Written Plan for Timber Harvest

## **Aire Apparent Timber Sale**

Portions of Section 36, T11S, R9W, W.M., Lincoln County, Oregon.

**Protected Resources**: Wolf Creek, a large Type F stream and a small Type F tributary to Wolf Creek.

**Situation**: Approximately 200 feet of a small, Type F stream is within the timber sale boundary in Area 3 and approximately 3,000 feet of a large Type F stream is adjacent to the East Boundary of Area 3 and the West Boundary of Area 4.

Thinning operations will occur within 100 feet of the Type F streams. In addition, yarding operations may need to tailhold and/or yard across some portions of the streams.

## **Resource Protection Measures:**

- 1. A minimum 25 foot horizontal distance no-harvest stream buffer has been established along all portions of the Type F streams.
- 2. Trees adjacent to the stream buffers shall be felled so that they do not enter into the buffer.
- 3. Skyline cables will not be lowered into streamside vegetation during the yarding cycle.
- 4. Skyline corridors passing over the stream will be spaced a minimum of 100 feet apart.
- 5. Full suspension is required when yarding over the stream buffers.
- 6. Where the logging system requires the skyline to pass over the stream, cables will be pulled out of the streamside vegetation prior to rigging the next yarding road.
- 7. Ground yarding equipment will not be allowed within 50 feet of the streams.

I, the undersigned, submit this written plan in compliance with the requirements of the Fore	st
Practices Act, regarding operations conducted within 100 feet of Type F streams.	

PURCHASER REPRESENTATIVE DATE	
STATE REPRESENTATIVE DATE	