# PART III: EXHIBITS

State Timber Sale Contract No. 341-16-56 Packy 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 Informat	ion (complete):	$\gamma $
(1)	Contract No.: <u>341-16-56</u>			$\mathcal{I} \cup \mathcal{I}$
(2)	Sale Name: Packy		-	-
(3)	Contract Expiration Date: October 31, 2017	Project Completion Dates:	October 31, 2016	
(4)	Purchaser:			
(6)	Purchaser Representatives:			
(-)	-		Cell/Other	
	Projects:	Phone:	Phone:	Home:
			Cell/Other	
	Projects:	Phone:	Phone: Cell/Other	Home:
	Projects:	Phone:	Phone:	Home:
	110jects.	I none	Cell/Other	
	Projects:	Phone:	Phone:	Home:
			Cell/Other	
	Logging:	Phone:	Phone:	Home:
			Cell/Other	
	Logging:	Phone:	Phone:	Home:
	- ·		Cell/Other	
	Logging:	Phone:	Phone:	Home:
	Logging:	Phone:	Cell/Other Phone:	Home:
(7)	State Representatives:			
(I)	State Representatives.		Cell/Other	
	Projects:	Phone:	Phone:	Home:
	· . · · · ·		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 Yarding:	Date: Date:	Phone: Phone:	<u> </u>
		Date		
(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.

Cable Landing, with numbers for sequence.

Tractor Landing with alphabetical sequence.

- \_ \_ \_ \_ \_ Approximate setting boundary.
- ----- Spur truck roads.

Tractor yarding roads.

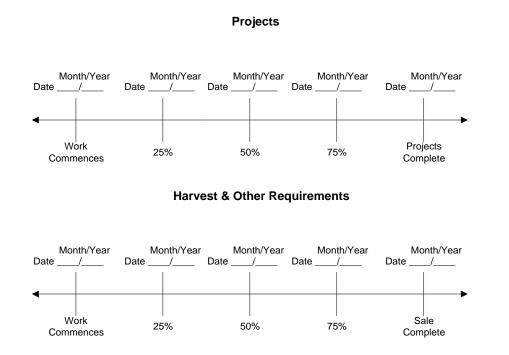
X Temporary stream crossings.

### 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.



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: PURCHASER

STATE OF OREGON - DEPARTMENT OF FORESTRY

Title

Title

Original: Salem cc: District File Purchaser

Operations Plan.doc/Jaz B (TS)

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Date

Date

### Revised 11/11 EXHIBIT C – SAWMILL GRADE (WESTSIDE SCALE)

**SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION** 

(2) REVISION I CANCELLA (2) TO: (3) FROM: <u>As</u>	(Third Party Scalin toria (04) Pho	Date Date	e e on)		- - -	· · ·	SALE NAME: <u>Packy</u> COUNTY: <u>Clatsop</u> STATE CONTRACT NUMBER: <u>341-16-56</u> STATE BRAND REGISTRATION NUMBER:
Address <u>92</u> (4) PURCHASE Mailing Add Phone Num	ate Forestry District) 219 Hwy 202, Asto ER: ress: ber: UM SCALING SPE				-	(12)	STATE BRAND INFORMATION (COMPLETE):
SPECIES Conifers Hardwoods	MINIMUM	10 10 Vestside	ME				PAINT REQUIRED: YES COLOR: <u>Orange</u> 4) <b>SPECIAL REQUESTS</b> (Check applicable)
<ul> <li>(6) WESTSIDE Use Region 6 actua</li> <li>(7) Weight Scal</li> </ul>	taper rule. Logs over 40'.	-	ES			PE NG M	EELABLE CULL (all species) D DEDUCTIONS ALLOWED FOR ECHANICAL DAMAGE DD-BACK VOLUME - Deductions due to delay THER:
LOCATIO	ED SCALING DNS proved Locations web-site)	Species	Yard	Truck	Weight	(15)	REMARKS
							Ator's Name (Optional inclusion by District): SIGNATURES: Purchaser or Authorized Representative
							State Forester Representative
							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.

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

### 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.
- (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: <u>info@mwlsgb.com</u>

Northwest Log Scalers, Inc . 5526 NE 122<sup>nd</sup> Ave, Portland, OR 97230 Phone: (503) 254-0600 Fax: (503) 408-0919 Email: <u>info@nwlogscalers.com</u> Pacific Rim Log Scaling Bureau, Inc. 8288 28<sup>th</sup> 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

- (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.

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

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

## **EXHIBIT C – PULP SORT**

# PROCESSING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	ORIGINAL REGISTRATION	(9)	SALE NAME: Packy
	REVISION NUMBER   Date     CANCELLATION   Date		COUNTY: <u>Clatsop</u>
(2)		(10)	STATE CONTRACT NUMBER: <u>341-16-56</u>
(3)	TO:	(11)	STATE BRAND REGISTRATION NUMBER
(4)	(State Forestry District) PURCHASER:	(12)	STATE BRAND INFORMATION: (COMPLETE BELOW)
(4) (5)	Scaling Bureau (TPSO) Processing Weight receipts: Mailing Address: Phone Number:		
(6)	<ul> <li>STATE Definition of Approved Pulp</li> <li>Sort:</li> <li>Top portion of the tree (tops).</li> <li>All logs with a diameter (Big End) greater</li> </ul>	(13)	REMARKS:
	than <u>8</u> inches marked with blue paint.		
(7)	<ul> <li><u>PULP FACILITY PROCESSING INSTRUCTIONS</u>:</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></ul>	(14)	SIGNATURES:
	<ul> <li>Weigher shall record the Log Load Receipt number on the weight receipt.</li> <li>Weigher shall attach the Weight receipt to the Log Load Receipt and mail them weekly to the</li> </ul>		Purchaser or Authorized Representative Date
	TPSO processing the Weight receipt.		State Forester Representative Date
(8)	<ul> <li>TPSO PROCESSING INSTRUCTIONS</li> <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 <u>http://www.odf.state.or.us/DIVISIONS/management/asset\_management/ScalingLocation.asp</u>
- (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: <u>services@crls.com</u>

Mountain Western Log Scaling & Grading Bureau P.O. Box 580, Roseburg, OR 97470 Phone: (541) 673-5571 Fax: (541) 672-6381 Email: <u>info@mwlsgb.com</u>

Northwest Log Scalers, Inc . 5526 NE 122<sup>nd</sup> Ave, Portland, OR 97230 Phone: (503) 254-0600 Fax: (503) 408-0919 Email: <u>info@nwlogscalers.com</u> Pacific Rim Log Scaling Bureau, Inc. 8288 28<sup>th</sup> Court North East, Lacey, WA 98516 Phone: (360) 528-8710 Fax: (360) 528-8718 Email: <u>office@prlsb.com</u>

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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 <u>8</u> 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 print name on the form</u>.

**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 <u>scaling@odf.state.or.us</u>. 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	1A to 1B	0+00 to 14+00	Crowned/Ditch
14 feet	n/a	2A to 2B	0+00 to 4+50	Outsloped
14 feet	n/a	2C to 2D	0+00 to 4+30	Outsloped
14 feet	n/a	2E to 2F	0+00 to 8+60	Outsloped
14 feet	n/a	3A to 3B	0+00 to 2+50	Outsloped
16 feet	12 feet	l1 to l2	0+00 to 152+70	Crowned/Ditch
16 feet	12 feet	13 to 14	0+00 to 208+00	Crowned/Ditch
16 feet	12 feet	15 to 16	0+00 to 54+50	Crowned/Ditch
16 feet	12 feet	17 to 18	0+00 to 20+60	Crowned/Ditch
16 feet	12 feet	19 to 110	0+00 to 25+30	Crowned/Ditch
16 feet	12 feet	I11 to I12	0+00 to 20+80	Crowned/Ditch
16 feet	12 feet	114 to 115	0+00 to 15+70	Crowned/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.

### EXHIBIT D

#### FOREST ROAD SPECIFICATIONS

<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.

EXCAVATION. 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.

<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

Subgrade. Subgrade shall be crowned or outsloped at 4 to 6 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: intervisible but not greater than 750 feet apart and as marked in the field.

<u>SLOPES</u>	Back Slopes	Fill Slopes
Solid Rock	Vertical to 1/4 :1	
Fractured Rock	1½:1	
Soil - side slopes 50% and over	1¾ :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 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.

### FOREST ROAD SPECIFICATIONS

<u>SEASONAL WINTERIZATION</u>. All unsurfaced roads or unfinished subgrades shall be waterbarred in accordance with the specifications in Exhibit G, and blocked from vehicular traffic prior to October 1, annually and as directed by STATE.

### GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

- (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 or outsloped at 4 to 6 percent.
  - (c) Upon completion of above required work, apply, process, and compact surfacing rock in accordance with specifications in the "Compaction and Processing Requirements" in this Exhibit. Final road surface shall be crowned or outsloped at 4 to 6 percent.

### SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

- Segment Station Work Description
- 2C to 2D 4+30 Pull back thru-cut material to fill in legacy thru-cut below landing to reestablish slope to natural contours.

### FOREST ROAD SPECIFICATIONS

### GENERAL ROAD IMPROVEMENT INSTRUCTIONS:

- (1) <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 this Exhibit.
- (2) <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. Waste materials shall be seeded and mulched in accordance with specifications in Exhibit H.
- (3) <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.
- (4) <u>Sod Removal</u>. Remove sod from the crushed road surface. Separate sod from crushed rock surfacing as directed by STATE. Sod may be scattered in stable locations, however, if necessary the sod shall be loaded and hauled to a designated waste area as directed by STATE.
- (5) <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, and compact in accordance to the "Compaction and Processing Requirements" in this Exhibit.
  - (e) Upon completion of above required work, apply, process, and compact surfacing rock in accordance to this Exhibit.

### FOREST ROAD SPECIFICATIONS

ROAD SEGME	NT: 1A to 1B			POINT TO P	OINT	Sta. to	Sta.		
			Depth	1A to 1E	3	0+00 to 1	4+00	TOTAL	
Application	Rock Size and Type	Location	of Rock (inche s)	Volume (C Per	Y)	Numb of	er	VOLUME (CY)	
Base Rock	4"-0" crushed	0+00 to 14+00	10	Station	63	Stations	14	882	
Taction Rock	<sup>3</sup> ⁄ <sub>4</sub> "-0" crushed	3+00 to 7+00	4	Station	25	Stations	4	100	
Turnouts	4"-0" crushed	11+00	n/a	Turnout	22	Turnouts	1	22	
Junctions	<sup>3</sup> ⁄ <sub>4</sub> "-0" crushed	1A	n/a	Junction	22	Junctions	1	22	
Landings	6"-0" pit-run	1B	n/a	Landing	77	Landings	1	77	
Total Rock for F	Road Segment:			1A	to 1B			1,103	
ROAD SEGME	NT: 2A to 2B			POINT TO P	OINT	Sta. to Sta.	Sta.		
			Depth	2A to 2E	}	0+00 to 4	1+50	TOTAL	
Application	Rock Size and Type	Location	of Rock (inche s)	Volume (C Per	Y)	Numb Of	er	VOLUME (CY)	
Junctions	3⁄4"-0" crushed	2A	n/a	Junction	22	Junctions	1	22	
Total Rock for F	Road Segment:		2A to 2B					22	
ROAD SEGME	NT: 2C to 2D			POINT TO P	OINT	Sta. to	Sta.		
Application	Rock Size and Type	Location	Depth of Rock (inche s)	2C to 2D Volume (C Per		0+00 to 4 Numb Of		TOTAL VOLUME (CY)	
Junctions	¾"-0" crushed	2C	n/a	Junction	22	Junctions	1	22	
Total Rock for F	Road Segment:		2C to 2D					22	
ROAD SEGME	NT: 2E to 2F		POINT TO P		Sta. to	Sta.			
			Depth	2E to 2F		0+00 to 8		<b>TOTO</b>	
Application	Rock Size and Type	Location	of Rock (inche s)	Volume (C Per		Numb Of		TOTAL VOLUME (CY)	
Junctions	<sup>3</sup> ⁄4"-0" crushed	2E	n/a	Junction	22	Junctions	1	22	
Total Rock for F		2E	to 2F			22			

# ROAD SURFACING

ROAD SEGME	NT: 11 to 12			POINT TO P	OINT	Sta. to	Sta.	
			Depth	I1 to I2		0+00 to 1		TOTAL
Application	Rock Size and Type	Location	of Rock (inches)		CY)	Numb of		VOLUME (CY)
Surface Rock	¾"0" crushed	0+00 to 152+70	3	Station	19	Stations	152.7	2,902
Turnouts	¾"-0" crushed		n/a	Turnout	22	Turnouts	27	594
Landings	6"-0" pit-run	80+00	n/a	Landing	44	Landings	1	44
Junctions	¾"-0" crushed	I1, 11+60, 25+80, 87+50, 95+70, 2A, 2C, and 2D	n/a	Junction	22	Junctions	8	176
Total Rock for R					to I2			3,716
ROAD SEGME	NT: I3 to I4	<b></b>	1	POINT TO P	OINT	Sta. to		
			Depth	I3 to I4		0+00 to 20	00+80	TOTAL
Application	Rock Size And Type	Location	of Rock (inches)	Volume (C Per	CY)	Numb Of	er	VOLUME (CY)
Leveling Rock	<sup>3</sup> ⁄4"-0" crushed	0+00 to 208+00	n/a	Load	11	Loads	60	660
Landings	6"-0" pit-run	2+30, 14+80	n/a	Landing	44	Landings	2	88
Total Rock for R					to I4			748
ROAD SEGME	NT: 15 to 16			POINT TO P	OINT	Sta. to		
			Depth	15 to 16		0+00 to 5	4+50	TOTAL
Application	Rock Size And Type	Location	of Rock (inches)	Volume (C Per	CY)	Numb Of	er	VOLUME (CY)
Leveling Rock	<sup>3</sup> ⁄4"-0" crushed	0+00 to 54+50	n/a	Load	11	Loads	15	165
Landings	6"-0" pit-run	16	n/a	Landing	44	Landings	1	44
Total Rock for R	Road Segment:			15 1	to 16	· – –		209
ROAD SEGME	NT: 17 to 18			POINT TO P	OINT	Sta. to	Sta.	
			Depth	17 to 18		0+00 to 2	0+60	TOTAL
Application	Rock Size And Type	Location	of Rock (inches)	Volume (C Per	CY)	Numb Of	er	VOLUME (CY)
Leveling Rock	<sup>3</sup> ⁄4"-0" crushed	0+00 to 20+60	n/a	Load	11	Loads	10	110
Total Rock for R	Road Segment:	•		I7 1	to I8			110
ROAD SEGME	NT: 19 to 110		•	POINT TO P	OINT	Sta. to	Sta.	-
			Depth	19 to 110	)	0+00 to 2	5+30	TOTAL
Application	Rock Size And Type	Location	of Rock (inches)	Volume (C Per	CY)	Numb Of	er	VOLUME (CY)
Leveling Rock	<sup>3</sup> ⁄4"-0" crushed	0+00 to 25+30	n/a	Load	11	Loads	10	110
Landings	6"-0" pit-run	l10	n/a	Landing	44	Landings		44
Total Rock for R	Road Segment:			19 te	o 110			154

# ROAD SURFACING

ROAD SEGME	NT: I11 to I12			POINT TO P	OINT	Sta. to S	Sta.	
			Depth	I11 to I12	2	0+00 to 2	0+80	TOTAL
Application	Rock Size And Type	Location	of Rock (inches)		Number Of		VOLUME (CY)	
Leveling Rock	¾"-0" crushed	0+00 to 20+80	n/a	Load	11	Loads	10	110
Landings	6"-0" pit-run	l12	n/a	Landing	44	Landings	1	44
Total Rock for F	Road Segment:			l11 t	o 112			154
ROAD SEGME	NT: 113		•	POINT TO P	OINT	Sta. to S	Sta.	
			Depth	l13		n/a		TOTAL
Application	Rock Size And Type	Location	of Rock (inches)	Volume (CY) Per		Number Of		VOLUME (CY)
Landings	6"-0" pit-run	l13	n/a	Landing	44	Landings	1	44
Total Rock for F	Road Segment:		l13					44
ROAD SEGME	NT: I14 to I15			POINT TO P	OINT	Sta. to S	Sta.	
			Depth	I14 to I15	5	0+00 to 1	5+70	TOTAL
Application	Rock Size And Type	Location	of Rock (inches)	Volume (C Per	;Y)	Numb Of	er	VOLUME (CY)
Leveling Rock	6"-0" pit-run	0+00 to 15+70	n/a	Load	11	Loads	5	55
Total Rock for F	Road Segment:			l14 t	o 115			55

ROCK TOTALS (CY)	6"-0"	4"-0"	3/4"-0"
6,358	440	904	5,014

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

### EXHIBIT D

### 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>Rock Checking</u>. All rock spreading shall be done only when a STATE representative is present. STATE shall issue a receipt for each load delivered, and rock shall be measured without allowance for shrinkage or shakedown during hauling. Total truck measure volume for each road segment shall be as shown on Exhibit D. Deliver at least 600 cubic yards per 8-hour shift, unless otherwise approved by STATE. A penalty of \$10 for each 10 cubic yards which are not delivered during a single shift shall be billed, and payment shall be required prior to final acceptance of the project by STATE.

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

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
All road segments that require rock surfacing	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, 2, 3, and 4

<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 as specified in the "Forest Roads Specifications" table in Exhibit D.

### EXHIBIT D

#### COMPACTION EQUIPMENT OPTIONS

<u>Pit-Run Rock</u>. The rock shall be uniformly mixed and spread in layers on the approved roadbed. Each layer of pit-run rock shall be moistened or dried to uniform moisture content suitable for maximum compaction and compacted in layers not to exceed 8 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. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

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

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
I14 to I15	5

### 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>Rubber-Tired Skidders</u>. A rubber-tired skidder weighing a minimum of 20,000 pounds shall be operated over the fill layers so that the entire layered surface comes in contact with the tires. Skidders with oversized tires (high flotation) are not acceptable for compaction.
- (3) <u>Tampingfoot Compactors</u>. Tampingfoot compactors shall exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet. The compactor shall cover a minimum width of 60 inches per pass and weigh a minimum of 16,000 pounds.
- (4) <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.
- (5) <u>Dozer</u>. A dozer/track-type tractor weighing a minimum of 82,00 pounds shall be operated over the Pit-run rock so that the entire surface comes in contact with the tracks.

### EXHIBIT E

### ROCK QUARRY DEVELOPMENT AND USE

- 1. PURCHASER shall prepare a written development plan for the quarry area. The plan shall be submitted to STATE for approval prior to conducting any operation in quarry area. The plan shall include, but not be limited to:
  - (a) Location of benches and roads to benches.
  - (b) Disposal site for woody debris, overburden and reject material.
  - (c) Time lines for rock quarry use.
  - (d) Erosion Control measures.
- PURCHASER shall schedule and coordinate quarry and stockpile usage with other existing or planned activity requiring quarry or stockpile usage. PURCHASER shall notify STATE 5 days prior to the start of quarry development activities.
- 3. The quarry site shall be left in a condition free from overburden and debris. Access roads to the quarry, and the quarry floor, shall be cleared at the termination of use. Overburden shall be removed for a distance of 20 feet beyond the developed rock source.
- 4. All overburden and reject material shall be hauled to the designated waste area as directed by STATE.
- 5. PURCHASER shall conduct the operations relative to the disposal of waste material in such manner that sediment, rock, or debris shall not be washed, conveyed, or otherwise deposited in any stream.
- 6. Controlled blasting techniques shall be utilized for any blasting operations, and shall be accomplished using timing devices, delayed charges, low intensity shots, or other suitable means to contain as much material as possible within the quarry development area. PURCHASER shall maintain a comprehensive blasting log that contains all pertinent data for all blasting operations. The blasting log shall be submitted to the STATE after the completion of all blasting activity. The blasting log is intended for STATE record keeping purposes only.
- 7. Benches shall be maintained/constructed at intervals of 40 feet or less in height and shall be a minimum of 20 feet in width. Any gravel or talus slopes shall be left with a working face at an angle of 60 percent or less. There shall be a minimum of one bench with an access road to it. Said bench shall be easily accessible with tractors.
- 8. Quarry face shall be developed in a uniform manner. All quarry backslopes shall be left in a stable condition.
- 9. The quarry floor shall be developed to provide for drainage away from the quarry. All quarry and stockpile site drainage ditches shall be maintained. Quarry access roads shall be cleared and blocked upon completion of quarry use as directed by STATE.
- 10. Proper winterization and storm-water control measures such as waterbarring, drainage, utilization of filter bales, mulching and/or blocking access shall be constructed and maintained to protect the watershed and Project Work, as directed by STATE.

### EXHIBIT F

### PIT-RUN ROCK SPECIFICATIONS

For 6"-0" Pit-Run

Passing Passing Passing Passing 10" sieve 6" sieve 3" sieve 1/4" sieve 100% 60-85% 30-50% 0-20%

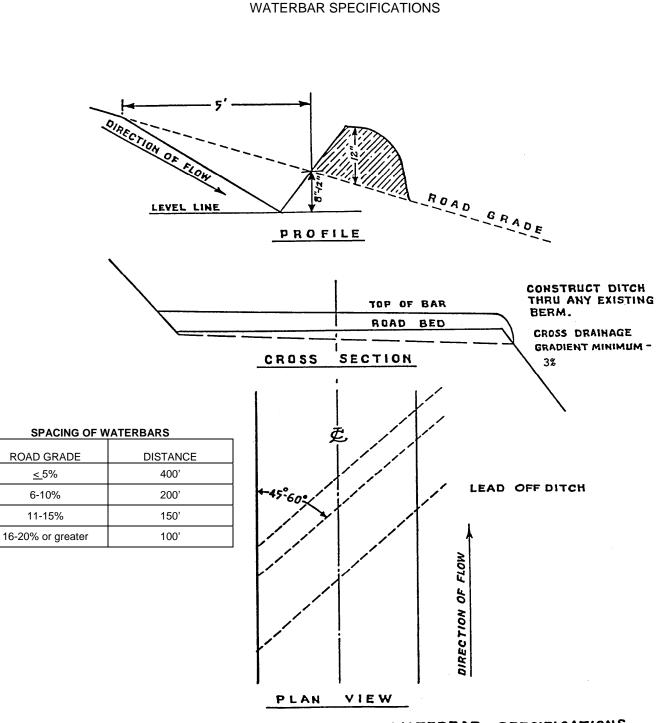
Control of gradation shall be by visual inspection by STATE.

<u><</u>5%

6-10%

11-15%

### EXHIBIT G



WATERBAR SPECIFICATIONS FOR CROSS DITCHING #298

### EXHIBIT H

### SEEDING AND MULCHING

This work shall consist of preparing seedbeds and furnishing and placing required seed, fertilizer, and straw mulch. Straw mulch shall consist of straw that is free of noxious weeds. Apply seed, fertilizer, and straw mulch to all waste areas, and bare soils resulting from Project No. 1 and 2.

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

### APPLICATION METHODS FOR SEED AND FERTILIZER

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

### APPLICATION RATES FOR SEED AND FERTILIZER

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

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

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

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

### APPLICATION RATES FOR MULCH

Place straw mulch to a reasonably uniform thickness of  $1\frac{1}{2}$  to  $2\frac{1}{2}$  inches. This rate requires between 2 and 3 tons of dry mulch per acre.

Application Locations:

All exposed Waste Areas as directed by STATE.

# PART IV: OTHER INFORMATION

State Timber Sale Contract No. 341-16-56 Packy

## WRITTEN PLAN

Operator:	Landowner:	Oregon Department of Forestry (BOF)
Notification and Unit #:	Operation Name	e or Vicinity: Packy

### STATUTORY WRITTEN PLAN

A Statutory Written Plan is required for any activities that will be within 100 feet of the following resource(s):

Stream Name: Beneke Creek, Walker Creek

Stream Classification: Medium Type F streams

### **Riparian Management Area Width:**

All Type F stream buffers are posted at 100 to 130 feet from the stream.

### Statutory Written Plan required by:

ORS 527.670(3)(a) and OAR 629-605-0170(2) for an operation within 100 feet of a Type F or Type D stream.

### Practices:

Along the above mentioned Type F streams adjacent to Area 3, as well as all other perennial Type N streams not listed, the following practices are required under the timber sale contract:

- No trees will be felled within stream buffers (RMA's), except in cable corridors, and felled trees within the Type F RMA will be left in the RMA.
- Trees that fall or slide into Type F RMA's shall not be removed without prior approval from STATE.
- Trees adjacent to the stream buffers (RMA's) will be felled away from or parallel to the streams to prevent trees from entering the aquatic areas.
- When cable logging is conducted nearby the RMA's, logging lines may cross, but will not be lowered into the RMA's during yarding, except during rigging. During rigging the lines must be pulled out of the RMA's when changing corridors.
- Logs shall be fully suspended when yarding across all stream buffers (RMA's).
- Cable corridors must be at least 100 feet apart where they cross the RMA's.
- No ground based logging equipment will be permitted within the RMA's.

I, the undersigned, submit this written plan in compliance with the requirements in the Forest Practices Act regarding the operations conducted within 100 feet of Type F streams. I agree to the protection measures listed on this plan:

Submitted:

Date: \_\_\_\_\_

Purchaser/Operator Contract Representative

Original: Salem CC: Operator, Purchaser, District file, Jewell Unit

**OREGON DEPARTMENT of FISH and WILDLIFE** 



# SMALL PUMP SCREEN SELF CERTIFICATION

The Oregon Water Resources Department in coordination and cooperation with the Oregon Department of Fish and Wildlife includes screen requirements on pumps to protect fish as a condition of many surface water and/or reservoir water right permits. This is done in accordance with ORS 537.153.

The Oregon Department of Fish and Wildlife does not usually inspect small pump screens at **pumped diversions less than 225 gpm** (gallons per minute), but furnishes the following fish screening criteria information to the water right permit holder:

Screen material open area must be at least 27% of the total wetted screen area.

Perforated plate: Openings shall not exceed 3/32 or 0.0938 inches (2.38 mm).

**Mesh/Woven wire screen:** Square openings shall not exceed 3/32 or 0.0938 inches (2.38 mm) in the narrow direction, e.g., 3/32 inch x 3/32 inch open mesh.

**Profile bar screen/Wedge wire:** Openings shall not exceed 0.0689 inches (1.75 mm) in the narrow direction.

**Screen area** must be large enough not to cause fish impact. Wetted screen area depends on the water flow rate and the water approach velocity. **Approach velocity** is the water velocity perpendicular to and approximately three inches in front of any part of the screen face.

**An Active pump screen** is a self-cleaning screen that has a proven cleaning system. The **screen approach velocity for active pump screens** shall not exceed 0.4 fps (feet per second) or 0.12 mps (meters per second). The wetted screen area in square feet is calculated by dividing the maximum water flow rate in cubic feet per second (1 cfs = 449 gpm) by 0.4 fps.

A Passive pump screen is a screen that has no cleaning system other than periodic manual cleaning. Screen approach velocity for passive pump screens shall not exceed 0.2 fps or 0.06 mps. The wetted screen area in square feet is calculated by dividing the maximum water flow rate by 0.2 fps.

For further information on fish screening please contact:

Oregon Department of Fish and Wildlife, Statewide Fish Screening Coordinator: 503.947.6229 Oregon Department of Fish and Wildlife, Screening Program Administrative Specialist: 503.947.6224

As evidence of having met fish screen installation requirements, please sign the certification and send to: Oregon Water Resources Department, Water Rights Section, 725 Summer Street NE, Suite A, Salem, OR 97301-1271.

**Certification:** I certify that my small pumped diversion of less than 225 gpm meets fish screening criteria, and that I will maintain it to comply with regulatory criteria. I also understand that should fish screening standards change, I may be required to modify my installation to meet applicable standards.

Applicant Signature:

Date: / / WRD File #:

Printed Name and Address:

 Phone:
 Fax:
 Fax:

 bmk
 10.20.2004
 smallpumpscreenselfcertification.doc