PART III: EXHIBITS

State Timber Sale Contract No. 341-12-13 Number Nine

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 Bran	nd Information (complete):	
(1)	Contract No.: 341-12-13	<u></u>		
(2)	Sale Name: Number Nine			-
(3)	Contract Expiration Date: October 31, 2013	Project Comple	etion Dates:	
` ′	•		mon Butes.	
(4)	Purchaser:	<u> </u>		<u></u>
(6)	Purchaser Representatives:			
	Projects:	Dhona	Cell/Other Phone:	Цото
	Fiojects.	Phone:	Cell/Other	Home:
	Projects:	Phone:		Home:
	<u> </u>		Cell/Other	
	Projects:	Phone:	Phone:	Home:
			Cell/Other	
	Projects:	Phone:		Home:
	Logging:	Phone:	Cell/Other Phone:	Home:
	Logging.	rnone.	Cell/Other	nome.
	Logging:	Phone:		Home:
	866		Cell/Other	
	Logging:	Phone:		Home:
			Cell/Other	
	Logging:	Phone:	Phone:	Home:
(7)	State Representatives:			
(1)	State Representatives.		Cell/Other	
	Projects:	Phone:		Home:
	<u> </u>		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:	·		
(7)	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

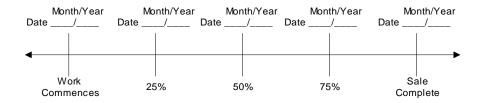
Completion Timeline

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.

APPROVED: Date:	SUBMITTED BY: PURCHASER
Title	Title

Original: Salem cc: District File Purchaser

Operations Plan.doc/Jaz B (TS)

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EXHIBIT C - SAWMILL GRADE

SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	ORIGINAL	REGISTRA	ATION	☐ Dat	e		(13) SALE NAME: Number Nine
		NUMBER _		☐ Dat	e		COUNTY: Tillamook
	CANCELL				e		(14) STATE CONTRACT NUMBER: 341-12-13
(2)	TO:	(Third P	arty Scaling ()raanizat	ion)		(15) STATE BRAND REGISTRATION NUMBER
(3)	FROM: <u>F</u>	Forest Grove State Forestry D 301 Gales Cr	<u>(05)</u> Pho District)	ne <u>(503</u>	3) 357-2	<u>2191</u>	(16) STATE BRAND INFORMATION (COMPLETE):
(4)	PURCHAS Mailing Ad	Forest Grove SER: Idress: mber:					
(5)	MINIMUM SPECIFIC				CLASS	3	(17) PAINT REQUIRED: YES ⊠
S	PECIES	SCALING DIAMETER INCHES	*NET SCALE VOLUME	PER MBF	** SUM	SUB	COLOR: Orange
	Conifers		10	X			(18) SPECIAL REQUESTS (Check applicable)
Ha	ardwoods		10	Х			DEFLADIT CHILL (all areasise)
*		volume test to whole			astside.		PEELABLE CULL (all species)
**	,): see instructions a	nd explain in Item	` '			FOR MECHANICAL DAMAGE
(6)	WESTSID	E SCALE:		,		NO	PENCIL BUCK
(7)	Use Region 6 EASTSIDE	actual taper rule. Lo S SCALE:	ogs over 40'.				ADD-BACK VOLUME - Deductions due to delay
` '	Use Region 6	actual taper rule. Lo	ogs over 40'.			\boxtimes	L-5
(8)	-	cale Sample				\boxtimes	(19) REMARKS
(9)	Weight Sa					\boxtimes	
(10)	Per Load						
(10)		yellow log load receil	ots				
(11	LOCA	VED SCALII TIONS pproved Locations w	<u>es</u>		ard	eight	Operator's Name (Optional inclusion by District):
site)		.,	Spe		×	We	(20) SIGNATURES:
							Purchaser or Authorized Representative Date
							State Forester Representative Date
(10)	NOTICE						State Forester Representative PRINT NAME
(12)		OF CANCEL Date:			ND:		

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.

Number Nine

EXHIBIT C- **SAWMILL GRADE**INSTRUCTIONS FOR FORM 343-307 (rev. 01/09)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires Item (12). Complete date.
- (2) Designate Third Party Scaling Organization (TPSO).
- (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. Review Section 2040 or 2045, "Log Removal," of the Contract. Species, or combined species can be separate entries. Information serves as a basis for scaling (see also Items (16) thru (18)), and is required to show existence on the sale. **SUM** (lump sum material). **SUB** (sub-merchantable material). SUB, as used by the State, references that material containing at least 10 bf (net) but less than the lower merchantable net volume limit or grade requirements for other merchantable (Per MBF) entries. Per MBF, SUM, and SUB must be indicated by checking the appropriate column. Species with the same specifications and value are combined into one entry. Per MBF and SUB require scaling therefore complete specifications. SUM need not be scaled, hence no specifications. Loads containing only SUM are to be ticketed if so instructed in Item (19). Mixed loads of SUM, Per MBF and/or subspecies will always be scaled.
- (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) Eastside Region 6 actual taper/taper table segment scale. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Northwest Log Rules Eastside). Items with * follow U.S. Forest Service Eastside rules.
- (8) 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 (19).
- (9) Weight Sale Check box if sale is to be sold as a weight sale. Processing procedures from approved locations to TPSO's will be explained in the Remarks section of Item (19).
- (10) Per Load Check box if volumes on sale are per load. Specific instructions for handling and processing will be fully explained in the Remarks section of Item (19).
- (11) 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.
- (12) When logging and hauling is complete, recall branding hammers, date and sign where indicated, check CANCELLATION box in Item (1), and send to TPSO.
- (13) Enter sale name and county.
- (14) Enter sale Contract number.
- (15) Enter Oregon's State Brand Registry Number (REQUIRED).
- (16) Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (19).
- (17) Check yes for Paint Required and designate "Orange" for color. Non required removal volumes may sometimes require blue paint.
- (18) 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.
- (19) 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.
- (20) Require purchaser 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 e-mailed directly to the State Forests Program/Asset Management Unit to both Timber Revenue Specialists. 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
16 feet	12 feet	A to B	0+00 to 8+60	Ditch
16 feet	12 feet	C to D	0+00 to 3+80	Ditch
-	Match Existing Surfacing	E to F	0+00 to 105+60	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 10 feet back of the top of the cutslope and 5 feet out from the toe of the fill slope, or as directed by STATE. Clearing debris shall not be placed or permitted to remain in or under any road embankment sections. Clearing debris shall not be left lodged against standing trees.

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

GRUBBING. This work shall consist of the removal or digging out of stumps and protruding objects.

All stumps shall be completely removed within the limits of required grubbing. Stumps overhanging cutslopes shall be removed. Grubbing debris shall not be placed or permitted to remain in or under any road embankment sections. Grubbing debris shall not be left lodged against standing trees.

GRUBBING CLASSIFICATION.

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

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

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

EXHIBIT D

FOREST ROAD SPECIFICATIONS

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

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

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.

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

Location: Intervisible but not greater than 750 feet apart.

SLOPES	Back Slopes	Fill Slopes
Solid Rock	Vertical to 1/4:1	
Fractured Rock	1/4:1	
Soil - side slopes 50% and over	³ ⁄ ₄ :1	1½:1
Soil - side slopes less than 50%	34:1	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.

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

FOREST ROAD SPECIFICATIONS

GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

- 1. <u>Subgrade Preparation and Application of Surfacing Rock</u>.
 - (a) Complete 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.
 - (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.

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

<u>Segment</u>	<u>Station</u>	Work Description:
A to B	0+00 2+00	Point A. Begin road construction; crown road, begin ditch construction. Construct ditch out to right.
	7+00	Construct ditch out to left.
	8+60	Point B. Construct landing.
C to D	0+00	Point C. Begin road construction; crown road, begin ditch construction.
0 10 2	3+80	Point D. Construct landing.

FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT INSTRUCTIONS:

- Drainage Ditches. 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 scattered in stable locations through openings in the timber outside of the road prism, 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.
- 2. <u>Subgrade Preparation and Application of Surfacing Rock.</u>

Complete drainage ditches, ditchouts, and other specified work prior to the application of new surfacing rock.

Cut out all potholes and/or washboard sections from the existing surfacing.

Apply required patching and leveling rock, as directed by STATE.

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.

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

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

<u>Segment</u>	<u>Station</u>	Work Description
E to F	0+00	Point E. Begin road improvement; crown road, begin ditch reconstruction.
	105+60	Point F. End improvement.

ROAD SURFACING

ROAD SEGMEN				POINT TO P	OINT			
Application	Rock Size	Location	Depth	A to B		0+00 to	3+60	TOTAL
	and Type of Volume (CY)		CY)	Numb	VOLUME			
			Rock (inches)	Per		of		(CY)
Base Rock	Pit-run 6"-0	0+00 – 8+60	10	Station	53	Stations	8.6	456
Turnarounds	Pit-run 6"-0		10	Turnaroun d	16	TAs	1	16
Turnouts	Pit-run 6"-0		10	Turnout	18	TOs	1	18
Junctions	Pit-run 6"-0	Point A	10	Junction	20	Junction s	1	20
Landings	Pit-run 6"-0	Point B	10	Landing	15 0	Landing s	1	150
Total Rock for F	Road Segment:			A to				660
ROAD SEGMEN	IT: C to D			POINT TO P	OINT	Sta. to	Sta.	
Application	Rock Size	Location	Depth	C to D		0+00 to 3	3+80	TOTAL
	and Type		of	Volume (C	CY)	Numb	er	VOLUME
			Rock (inches)	Per		of		(CY)
Base Rock	Pit-run 6"-0	0+00 – 3+80	10	Station	53	Stations	3.8	201
Turnarounds	Pit-run 6"-0		10	TA	16	TAs	1	16
Junctions	Pit-run 6"-0	Point C	10	Junction	20	Junction s	1	20
Landings	Pit-run 6"-0	Point D	10	Landing	15 0	Landing s	1	150
Total Rock for F	Road Segment:			C to	o D			387
ROAD SEGMEN	NT: E to F			POINT TO POINT Sta. to Sta.				
Application	Rock Size	Location	Depth	E to F		0+00 to 10	05+60	TOTAL
	and Type		of Rock (inches)	Volume (0 Per	CY)	Numb of	er	VOLUME (CY)
Surface	Crushed 1½"-0	0+00- 105+60	3	Station	20	Stations	105. 6	2,112
Curve Widening	Crushed 1½"-0		3	CW	20	CWs	1	20
Turnouts	Crushed 1½"-0		3	Turnout	6	Turnout s	14	84
Junctions	Crushed 1½"-0	Point E	3	Junction	40	Junction s	1	40
Total Rock for R	oad Segment:			E to	o F			2,256

ROCK TOTALS (CY)	6"-0"	1½"-0"
	1047	2,256

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

ROCK ACCOUNTABILITY

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

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

<u>Depth Measurement</u>. Rock shall be spread and compacted according to the depths specified in this exhibit. 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 this exhibit. 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.

EXHIBIT D

COMPACTION AND PROCESSING REQUIREMENTS

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

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

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

Subgrade shall be crowned at 4 to 6 percent as specified in the "Forest Roads Specifications" table in this exhibit.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
All road segments.	1

<u>Fills</u>. Embankments and fills shall be placed in 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		

<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.

COMPACTION AND PROCESSING REQUIREMENTS

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
Road segment requiring crushed rock.	1

<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 this exhibit.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
All road Segments	2 and 3

COMPACTION EQUIPMENT OPTIONS

- 1. <u>Vibratory Rollers</u>. The drum shall have a smooth surface, a diameter not less than 48 inches, a width not less than 58 inches, and a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 VPM, corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 VPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled and operated at speeds ranging from 0.9 miles to 1.8 miles per hour, as directed by STATE.
- 2. <u>Vibratory Grid Compactors</u>. The roller shall have a grid surface and have an operating weight of 32,000 pounds or more. The rock shall be worked with a grader weighing at least 20,000 pounds during the grid rolling process. All rock shall come in contact with the vibratory grid compactor.
- 3. <u>Crawler Tractors</u>. D-7 Caterpillar (or equivalent) or larger.

EXHIBIT E

ROCK PIT DEVELOPMENT AND USE

- 1. PURCHASER shall prepare a written development plan for the pit area. The plan shall be submitted to STATE for approval prior to conducting any operation in pit 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 pit use.
 - (d) Erosion control measures.
- 2. PURCHASER shall schedule and coordinate pit usage with other existing or planned activity requiring pit usage. PURCHASER shall notify STATE 5 days prior to the start of pit development activities.
- 3. The pit site shall be left in a condition free from overburden and debris. Access roads to the pit, and the pit 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, reject material, woody debris, including stumps and Slash shall be hauled to the designated waste area as directed by STATE.
- 5. 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.
- 6. Pit face shall be developed in a uniform manner. All pit back slopes shall be left in a stable condition.
- Oversized material that is produced shall be piled in a designated area adjacent to the pit. It shall not be wasted.
- 8. The pit floor shall be developed to provide for drainage away from the pit. All pit drainage ditches shall be maintained. Pit access roads shall be cleared and blocked upon completion of pit use as directed by STATE.
- 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.
- 10. Apply seed to the waste area, as specified in Exhibit G.

EXHIBIT E

DURABLE CRUSHED ROCK SPECIFICATIONS

Grading Requirements

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

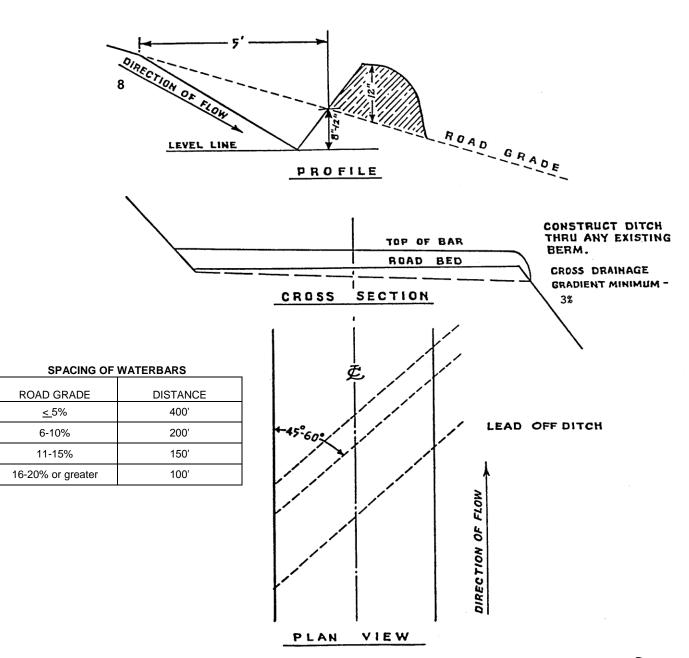
PIT-RUN ROCK SPECIFICATIONS

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%

Material shall be well graded, free of organic material and shall not have excessive fine materials.

Control of gradation shall be by visual inspection by STATE.

EXHIBIT F
WATERBAR SPECIFICATIONS



WATERBAR SPECIFICATIONS FOR CROSS DITCHING #298

EXHIBIT G

SEEDING AND FERTILIZING

This work shall consist of preparing seedbeds and furnishing and placing required seed and fertilizer. Apply seed and fertilizer to all waste areas, and bare soils resulting from Project No. 1.

<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.

PART IV: OTHER INFORMATION

State Timber Sale Contract No. 341-12-13 Number Nine

NOTICE OF TRANSFER OF STATE TIMBER

Instructions 629:-Form-301-010 Complete Section 1. Mark the box which applies to you/your company in Section 2. Complete Section 3 and obtain signatures. **SECTION 1** On , state timber sale purchaser (Transferor) _____, sold, exchanged or otherwise transferred to _____, (Transferee) state timber originating from State Timber Sale Contract No. _____ Transferee hereby certifies that they: Will not export the unprocessed state timber which is the subject of this transaction; (a) (b) Will not sell, transfer, exchange or otherwise convey the unprocessed timber which is the subject of this transaction to any other person without first obtaining a like certification from that person; and Are not prohibited by OAR's 629-31-005 through 045 from purchasing state timber or logs directly from (c) the State Forester, or this is a sale of Western Red Cedar for domestic processing. **SECTION 2** Have not exported unprocessed timber originating from private lands in Oregon in the last 24 months. This is a sale of hardwood logs for domestic processing. This is a sale of Western Red Cedar for domestic processing. This is a sale of pulp logs or cull logs processed at domestic pulp mills, domestic chip plants or other domestic operations for the purpose of conversion of the logs into chips. **SECTION 3** The parties understand that falsely entering into this certification, or failure to comply with the terms of this certification is a violation of the Forest Conservation and Shortage Relief Act of 1990 and OAR Chapter 629, Division 31, and is subject to any and all penalties contained therein. Transferor: Transferee: Signed Signed Title Title Dated Dated [Note: For the purpose of this form, the definition of unprocessed timber is the same as in OAR 629-31-005] Mail To: State Forester 2600 State Street

Notice of Transfer of State Timber Form 301-010.doc/Jaz B (SF)

Salem, OR 97310