# PART III: EXHIBITS

State Timber Sale Contract No. 341-08-28 Beavers Rock

# **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.: 341-08-28	<u> </u>		
(2)	Sale Name: Beavers Rock	_		
(3)	Contract Expiration Date: December 31, 2010	Project Complet	tion Dates:	
	•		mon Butes.	
(4)	Purchaser:			
(6)	Purchaser Representatives:		Cell/Other	
	Projects:	Phone:		Home:
			Cell/Other	
	Projects:	Phone:		Home:
	Projects:	Phone:	Cell/Other Phone:	Home:
	110/2003.	Thone.	Cell/Other	
	Projects:	Phone:		Home:
		DI.	Cell/Other	**
	Logging:	Phone:	Phone: Cell/Other	Home:
	Logging:	Phone:		Home:
	888-		Cell/Other	<u> </u>
	Logging:	Phone:		Home:
	Logging:	Phone:	Cell/Other Phone:	Home:
	Logging.	Thone.	I none.	
(7)	State Representatives:			
	D. 1	DI	Cell/Other	
	Projects:	Phone:	Phone: Cell/Other	Home:
	Logging:	Phone:		Home:
(8)	Name of Subcontractors & Starting Dates:			
(0)	_			
	Projects: No(s)	Date:	Phone:	
	No(s)	Date:	Phone:	
	No(s) No(s)	Date:	Phone:	
	Logging: Felling	Date:	Phone:	_
	Yarding:	Date:	Phone:	
(9)	Comments:			
	<del>-</del>			

(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.

# 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: STATE OF OREGON - DEPARTMENT OF FORESTRY	SUBMITTED BY: PURCHASER
Title	Title

Original: Salem
cc: District File
Purchaser

# EXHIBIT C – SAWMILL GRADE

# SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	REVISION NUMBER			☐ Date			(12)	SALE NAME Beavers Rock COUNTY Polk
	CANCELL	.ATION		Date			(13)	STATE CONTRACT NUMBER 341-08-28
(2)	TO:	(Third Pa	arty Scaling O	ganizatio	n)		(14)	SCALE: westside <sup>*</sup> ⊠ eastside □ cubic foot □
(3)	FROM: V	Vest Oregon State Forestry D	(01) Phon				(15) (16)	STATE BRAND REGISTRATION NUMBER BUREAU BRAND CODE NUMBER
	Address 2	4533 Alsea I	Hwy, Philon	nath, Ol	R 973	70	(17)	STATE BRAND INFORMATION:
(4)	PURCHAS	SER:					(17)	
` '								(COMPLETE)
(5)	MINIMUM SPECIFIC	SCALING ATIONS		c	LAS	S		
s	PECIES	SCALING DIAMETER INCHES	*NET SCALE VOLUME	PER MBF	** SUM	SUB		
(	Conifers		10	Χ				
На	ardwoods		10	Χ			=	
*		rolume test to whole lo ): see instructions an			tside.		]	
(6)	WESTSID	E SCALE:		Υ	ES	NO		~
(7)	Actual taper all logs over 40' scaling length						(18)	PAINT REQUIRED: YES ⊠ COLOR Orange
(8)	*Actual taper	butt logs over 40' sca	lling length				(19)	SPECIAL SCALES
(9)		num Scaling Diameter					PEE	ELABLE CULL (all species) LITY/PULP (all species)
` ,	Deductions d	ue to delay			$\boxtimes$		NO	DEDUCTIONS ALLOWED R MECHANICAL DAMAGE
(10)		ED SCALING					OTH	HER:
	LOCATIO	NS	Species	Yard	Tı	ruck	ОТІ	HER:
							(20)	REMARKS:
							Opera	tor's Name (Optional inclusion by District):
(11)	NOTICE C	OF CANCELL	ATION OF	BRANI	D:	·	(21)	SIGNATURES:
	Effective [	Date:						Purchaser or Authorized Representative Date
	State Foresto	er's Representat	tive					State Forester Representative Date

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**

# INSTRUCTIONS FOR FORM 343-307 (rev. 5/01)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires Item (21). Complete date.
- (2) Designate Third Party Scaling Organization (TPSO). Send 4 copies to TPSO, 1 to purchaser, 1 to Salem, and keep such copies as to district needs.
- (3) State District office, address and phone.
- (4) Enter Purchaser's business name and address 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 (13) thru (17)), and is required to show existence on the sale. **PerM** (per MBF). **SUM** (lump sum material). **SUB** (submerchantable 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 (PerM) entries. PerM, SUM, and Sub must be indicated by checking the appropriate column. Species with the same specifications and value are combined into one entry. PerM 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, PERM and/or subspecies will always be scaled.
- (6) Westside -- 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 -- 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) Pencil Buck. Check NO if a westside sale, optional for eastside sales.
- (9) Add-Back Volume. Add-Back is normally checked YES. Scaler records deductions (sap rot, weather checks, etc.) caused by an abnormal delay in removal. Enter separately on scale ticket. TPSO provides State with summaries that include this as a net volume by species. Salvage sales and certain other circumstances may require that "NO" be checked.
- (10) Show scaling locations only applicable to TPSO. Not necessary to list markets. If all species are scaled at same location, enter "ALL."
- (11) When logging is complete, recall branding hammers, date and sign where indicated, check CANCELLATION box at top of form, and send to TPSO.
- (12) Enter sale name and county.
- (13) Enter sale Contract number.
- (14) Check Westside or Eastside log scale. Cubic foot refers to Northwest Log Rules Cubic Foot Scale.
- (15) Oregon Forest Products Brand Registry Number (optional).
- (16) DO NOT USE -- TPSO will fill in when applicable.
- (17) Show one brand only. Complete drawing. 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) under REMARKS, Item 19.
- (18) Check YES and designate orange.
- (19) Special Scales. These are the Special Scales that will be applied. If "Other" is indicated, please describe. Give comments in Item (19).
- (20) Use this space to designate weight conversion factors, or any other explanations to clarify scaling requirements. If additional scaling locations are approved, prepare another form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (21) Require purchaser to sign and date completed form.

# EXHIBIT C - PULP SORT

# SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

REVISION NUMBER	(1)	ORIGINAL	REGISTRA	TION	Date	e		(13)	SALE NAME Beavers Rock
CANCELLATION □ Date □ (13) STATE CONTRACT NUMBER 341-08-28 □ (14) SCALE 'By Weight □ eastside □ cubic foot □ (15) STATE BRAND REGISTRATION NUMBER □ (15) STATE BRAND REGISTRATION NUMBER □ (15) STATE BRAND REGISTRATION NUMBER □ (16) SPECIFICATIONS SPECIFICATIONS □ CLASS □ DIAMETER □ SCALE □ PER □ (16) SPECIFICATIONS □ SPECIFICATIONS □ CLASS □ DIAMETER □ SCALE □ PER □ (16) SPECIFICATIONS □ STATE BRAND INFORMATION: (COMPLETE) □ STATE LOG STATE BRAND INFORMATION: (COMPLETE) □ STATE		REVISION	NUMBER _		Date	e			COUNTY Polk
(3) FROM: West Oregon (01) Phone (541)929-3266 (State Forestry District) Address 24533 Alsea Hwy, Philomath, OR 97370  (4) PURCHASER: Address  (5) MINIMUM SCALING SPECIFICATIONS  SPECIES INCHES VOLUME NBF SUM SUB Pulp 19 Weight		CANCELL	ATION		Date	e		(13)	
(3) FROM: West Oregon (01) Phone (541)929-3266 (State Forestry District) Address 24533 Alsea Hwy, Philomath, OR 97370  (4) PURCHASER: Address  (5) MINIMUM SCALING SPECIFICATIONS  SCALING INCHER SCALE INCHES VOLUME MBF SUM SUB Pulp 'By Weight   SUM SUB Pulp 'By Weight   SUM SUB Pulp 'By Weight   SUM SUB PENCIL BUCK Adapt speer but logs over 40' scaling length   SUM SUB PENCIL BUCK  Aparty minimum volume laste whole logs over 40' vecladade: 20' Esabadoe.  WESTSIDE SCALE:  'Adapt speer but logs over 40' scaling length   SUM SUB PENCIL BUCK  Bata to Minimum Scaling Dammeter   SUM SUB	(2)	TO:						(14)	
(11) Address 24533 Alsea Hwy, Phillomath, OR 97370  (4) PURCHASER: Address  (5) MINIMUM SCALING SPECIFICATIONS  CLASS    SCALING   NET   NOLLING   SPECIFICATIONS   SUBJECT   SCALE   SCALE   SPECIFICATIONS   SPE	(-)			-	-			` ,	, , , , , , , , , , , , , , , , , , , ,
Address 24533 Alsea Hwy, Philomath, OR 97370  (4) PURCHASER:	(3)				e <u>(541)</u>	929-3	<u> 3266</u>	` ,	
(4) PURCHASER: Address  (5) MINIMUM SCALING SPECIFICATIONS  SCALINO NET DIAMETER SCALE PER " SPECIES INCHES VOLUME MBF SUM SUB Pulp "By Weight		,	•	•	nath, C	R 973	370_	` ,	
(5) MINIMUM SCALING SPECIFICATIONS  SPECIES OLAING INCHES VOLUME MSF SUM SUB Pulp 'By Weight Sum with larger allage over 40' Scaling length Sum sub indicated; see instructions and explain in Item (20).  (6) WESTSIDE SCALE: YES NO Actual taper allage over 40' Scaling length Sum sub indicated; see instructions and explain in Item (20).  (7) EASTSIDE SCALE: YES NO Actual taper but logs over 40' scaling length Sum sub indicated in Item (20).  (8) PENCIL BUCK Dack to Minimum Scaling Diameter Deductions due to delay (10) APPROVED SCALING LOCATIONS  Species Yard Truck  (10) APPROVED SCALING LOCATIONS Species Yard Truck  (11) NOTICE OF CANCELLATION OF BRAND: Effective Date:  State Forester's Representative Date  State Forester's Representative Date  PLASS  CLASS  (18) PAINT REQUIRED: YES IN COLOR Orange  (19) SPECIAL SCALES  PEELIABLE CULL (all species)  UTILITY/PULP (all species)	(4)	PURCHAS	SER:					(17)	
SPECIES   SCALING   YNET   DIAMETER   SCALE   PER   YOLUME   MBF   SUM   SUB   Pulp   'By Weight   SUM   SUB   Pulp   'By Weight   Sum (if indicated): see instructions and explain in item (20).  ** Apply minimum volume test to whole logs over 40 Westadde; 20' Eastadde. Sum (if indicated): see instructions and explain in item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if indicated): see instructions and explain in item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if indicated): see instructions and explain in item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if indicated): see instructions of explain in item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if indicated): see instructions of explain in item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (if item (20).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (10).  ** Apply minimum volume test to whole logs over 40' Westadde; 20' Eastadde. Sum (10).  ** COLOR Orange  ** (19) SPECIAL SCALES  ** PEELABLE CULL (all species)  ** UTILITYPUP I (all									(COMPLETE) L
DIAMETER SCALE NCHES VOLUME MBF SUM SUB Pulp 'By Weight   SUM SUB Pulp 'By Weight   SUM SUB  ** Apply minimum volume test to whole logs over 40' Westside; 20' Eastside. Sum (if indicated): see instructions and explain in term (20).  (6) WESTSIDE SCALE:  'Actual taper all logs over 40' scaling length   SUM SUB   SUB SCALE:  'Actual taper but logs over 40' scaling length   SUB SCALE:  'Actual taper but logs over 40' scaling length   SUB SCALE:  'Actual taper but logs over 40' scaling length   SUB SCALE:  'Actual taper but logs over 40' scaling length   SUB SCALE:  'Actual taper but logs over 40' scaling length   SUB SCALE:  'Actual taper but logs over 40' scaling length   SUB SCALE:  'Actual taper but logs over 40' scaling length   SUB SCALES    PECLABLE CULL (all species)  NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE OTHER: Convert weight to MBF, using a factor of 10 tons per MBF.  (10) APPROVED SCALING   SUB SCALI	(5)					CLAS	S		
** Apply minimum volume test to whole logs over 40" Westside: 20" Eastside.  **Sum (if indicated): see instructions and explain in Item (20).  (7) EASTSIDE SCALE:  **CAtual taper all logs over 40" scaling length  (8) PENCIL BUCK  **Back to Minimum Scaling Diameter  **Deductions due to delay  (10) APPROVED SCALING  LOCATIONS  Species Yard Truck  (10) APPROVED SCALING  LOCATIONS  Species Yard Truck  (20) REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1)  Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO Shall notify the West Orgon District Office. (541)929-3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  State Forester's Representative  Date	S	PECIES	DIAMETER	SCALE			SUB		
** Sum (if indicated): see instructions and explain in Item (20).  (6) WESTSIDE SCALE: YES NO Actual taper all logs over 40' scaling length		Pulp	*By Weight					-	
** Sum (if indicated): see instructions and explain in Item (20).  (6) WESTSIDE SCALE: YES NO Actual taper all logs over 40' scaling length								-	
Actual taper all logs over 40' scaling length  (7) EASTSIDE SCALE:  *Actual taper butt logs over 40' scaling length  (8) PENCIL BUCK  back to Minimum Scaling Diameter  Deductions due to delay  (9) ADD-BACK VOLUME  Deductions due to delay  (10) APPROVED SCALING LOCATIONS  Species Yard Truck  (20) REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1)  Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929-3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  State Forester's Representative  Date	*	Apply minimum v Sum (if indicated	olume test to whole ): see instructions ar	logs over 40' Wests nd explain in Item (:	side; 20' Ea 20).	stside.		1	
(7) EASTSIDE SCALE:  *Actual taper butt logs over 40' scaling length  (8) PENCIL BUCK  *back to Minimum Scaling Diameter  Deductions due to delay  (9) ADD-BACK VOLUME  Deductions due to delay  (10) APPROVED SCALING  LOCATIONS  Species  Yard  Truck  (20) REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1)  Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office. (541)929-3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  State Forester's Representative  OLOGN Orange  (19) SPECIAL SCALES  PEELABLE CULL (all species)  UTILITY/PULP (all speci	(6)	WESTSID	E SCALE:		Υ	⁄ES	NO		
**Actual taper butt logs over 40' scaling length   SPECIAL BUCK	( <b>-</b> )		-	ng length			$\boxtimes$	(18)	PAINT REQUIRED: YES ⊠
(10) APPROVED SCALING LOCATIONS Species Yard Truck  (20) REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1) Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929-3266, immediately if the above requirements are not met.    Operator's Name (Optional inclusion by District):	(7)			olio a lo a ath			$\square$		
(9) ADD-BACK VOLUME Deductions due to delay  (10) APPROVED SCALING LOCATIONS  Species Yard Truck  (20) REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1) Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929-3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  State Forester's Representative  Date	(8)		-	aling length		ш			
OTHER: Convert weight to MBF, using a factor of 10 tons per MBF.  (20) REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1) Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929-3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  State Forester's Representative  OTHER: Convert weight to MBF, using a factor of 10 tons per MBF.  (20) REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1) Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929-3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  (22) SIGNATURES:  Purchaser or Authorized Representative  Date	(0)		-				$\boxtimes$	UTI	LITY/PULP (all species)
10 tons per MBF.	(9)						$\boxtimes$		
Cocations   Species   Yard   Truck   (20)   REMARKS: *Pulp logs shall be weighed in lieu of Scaling. Tons shall be short tons or 2,000 lbs. (1)   Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third-Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929-3266, immediately if the above requirements are not met.		Deductions d	ue to delay			<u>.                                    </u>			
Scaling. Tons shall be short tons or 2,000 lbs. (1) Weigher will attach a machine-printed weight ticket to the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third- Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929- 3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  State Forester's Representative  Purchaser or Authorized Representative  Date	(10)				Yard	, т	ruck	(20)	REMARKS: *Pulp logs shall be weighed in lieu of
the Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third- Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929- 3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  Effective Date:  State Forester's Representative  The Scaler Receipt part of the STATE Log Load Receipt and mail them weekly to the approved Third- Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929- 3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  [22] SIGNATURES:  Purchaser or Authorized Representative Date		LOCATIO	110	Ороспос	1 41	+	- I uon	,	Scaling. Tons shall be short tons or 2,000 lbs. (1)
Party Scaling Organization (TPSO). (2) The TPSO shall notify the West Oregon District Office, (541)929-3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  Effective Date:  State Forester's Representative  Purchaser or Authorized Representative  Date									the Scaler Receipt part of the STATE Log Load
shall notify the West Oregon District Office, (541)929- 3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  Effective Date:  State Forester's Representative  Purchaser or Authorized Representative  Date									
3266, immediately if the above requirements are not met.  Operator's Name (Optional inclusion by District):  Effective Date:  State Forester's Representative  Operator's Name (Optional inclusion by District):  (22) SIGNATURES:  Purchaser or Authorized Representative  Date						-			
(11) NOTICE OF CANCELLATION OF BRAND:  Effective Date:  State Forester's Representative  Operator's Name (Optional inclusion by District):  (22) SIGNATURES:  Purchaser or Authorized Representative  Date						+			3266, immediately if the above requirements are not
(11) NOTICE OF CANCELLATION OF BRAND:  Effective Date:  State Forester's Representative  (22) SIGNATURES:  Purchaser or Authorized Representative  Date					1			Opei	
	(11)								· · · · · · · · · · · · · · · · · · ·
		State Forest	er's Representa	tive					Purchaser or Authorized Representative Date
State Forester Representative Date			-						
									State Forester Representative Date

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 - PULP SORT

# INSTRUCTIONS FOR FORM 343-307 (rev. 5/01)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires Item (21). Complete date.
- (2) Designate Third Party Scaling Organization (TPSO). Send 4 copies to TPSO, 1 to purchaser, 1 to Salem, and keep such copies as to district needs.
- (3) State District office, address and phone.
- (4) Enter Purchaser's business name and address 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 (13) thru (17)), and is required to show existence on the sale. **PerM** (per MBF). **SUM** (lump sum material). **SUB** (submerchantable 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 (PerM) entries. PerM, SUM, and Sub must be indicated by checking the appropriate column. Species with the same specifications and value are combined into one entry. PerM 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, PERM and/or subspecies will always be scaled.
- (6) Westside -- 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 -- 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) Pencil Buck. Check NO if a westside sale, optional for eastside sales.
- (9) Add-Back Volume. Add-Back is normally checked YES. Scaler records deductions (sap rot, weather checks, etc.) caused by an abnormal delay in removal. Enter separately on scale ticket. TPSO provides State with summaries that include this as a net volume by species. Salvage sales and certain other circumstances may require that "NO" be checked.
- (10) Show scaling locations only applicable to TPSO. Not necessary to list markets. If all species are scaled at same location, enter "ALL."
- (11) When logging is complete, recall branding hammers, date and sign where indicated, check CANCELLATION box at top of form, and send to TPSO.
- (12) Enter sale name and county.
- (13) Enter sale Contract number.
- (14) Check Westside or Eastside log scale. Cubic foot refers to Northwest Log Rules Cubic Foot Scale.
- (15) Oregon Forest Products Brand Registry Number (optional).
- (16) DO NOT USE -- TPSO will fill in when applicable.
- (17) Show one brand only. Complete drawing. 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) under REMARKS, Item 19.
- (18) Check YES and designate orange.
- (19) Special Scales. These are the Special Scales that will be applied. If "Other" is indicated, please describe. Give comments in Item (19).
- (20) Use this space to designate weight conversion factors, or any other explanations to clarify scaling requirements. If additional scaling locations are approved, prepare another form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (21) Require purchaser to sign and date completed form.

# EXHIBIT D FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DRAINAGE
14 feet	12 feet	B to C	0+00 to 147+80	Ditch
14 feet	12 feet	C to H	0+00 to 191+60	Ditch
14 feet	12 feet	D to D2	0+00 to 50+00	Ditch
14 feet		D2 to D3	0+00 to 3+40	No Ditch
14 feet	12 feet	E to E1	0+00 to 44+20	Ditch
14 feet	12 feet	E2 to E3	0+00 to 12+70	No Ditch
14 feet		E4 to E5	0+00 to 8+50	No Ditch
14 feet		E6 to E7	0+00 to 9+90	No Ditch
14 feet		F to F1	0+00 to 28+80	No Ditch
14 feet	12 feet	G to G1	0+00 to 56+00	Ditch
14 feet	12 feet	G to G1	56+00 to 82+80	No Ditch
14 feet	12 feet	G2 to G3	0+00 to 4+00	No Ditch
14 feet	12 feet	G4 to G5	0+00 to 17+50	No Ditch
14 feet	12 feet	H to H1	0+00 to 10+80	No 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.

Clearing limits are marked by STATE with R/W tags and fluorescent pink flagging. 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 classifications are as follows:

New construction, improvements, and reconstructions – 5 feet back from the top of the cutslope and 5 feet out from 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 through openings in the timber outside of the cleared right-of-way, except areas where end-haul is required.

State Timber Sale Contract No. 341-08-28 Beavers Rock

#### **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-engineered lines, grades, dimensions, and plans when provided.

All suitable excavated material shall be used where possible 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. All fills and drainage structure backfills shall be machine compacted according to the specifications in Exhibit E.

Unless road design 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.

Excess excavation shall not be sidecast where material will enter a stream course or where material will accumulate in areas deemed a high landslide hazard location by STATE.

<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 follows: 400 divided by the radius of the curve equals the amount of extra width.

# DRAINAGE.

<u>Ditch</u>. Construct "V" ditch 3 feet wide and to a depth of 1 foot below subgrade. Subgrade shall be crowned at 4 to 6 percent. Construct ditchouts away from subgrade at locations marked in the field.

Outslope. Road subgrade shall be outsloped at 4 to 6 percent.

<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.

GRADING	Back Slopes	Fill Slopes
Rock	Vertical to 1/4:1	Not steeper
Common - side slopes 50% and over	1/2:1	than 11/2:1
Common - side slopes less than 50%	/4:1	
Common - turnpike (level) section	2:1	

Top of cutslope shall be rounded.

<u>LANDINGS</u>. Landings shall be constructed as posted in the field. Surface is to be crowned for drainage, with general grade no more than 3 percent.

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

# EXHIBIT E ROAD SURFACING

ROAD SEGMENT		B to C						
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per		Rock Volume (CY) per Number of		TOTAL VOLUME (CY)
Spot rock	1½"-0"	0+00 to 147+80		25	mile	2.8	miles	72
ROAD SEGMENT				C to I	Н			
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volum	e (CY) per	Num	ber of	TOTAL VOLUME (CY)
Spot rock	1½"-0"	0+00 to 191+60		50	mile	3.6	miles	180
Junction patch rock	1½"-0"	170+00		9	junction	1	junction	9
Landing rock	Jaw-run	170+00		27	Landing	1	Landing	27
ROAD SEGMENT				C to	Н			
Post Harvest Application	Rock Size and Type	Location	Depth of Rock (inches)	Volum	Volume (CY) per Number of		TOTAL VOLUME (CY)	
Landing patch rock	1½"-0"	0+00 to 191+60		9	Landing	6	Landings	54
ROAD SEGMENT				E to E	1			
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)	
Turnaround rock	2½"-0"	29+80		27	turnaround	1	turnaround	27
ROAD SEGMENT				E2 to l	E3			
Post Harvest Application	Rock Size and Type	Location	Depth of Rock (inches)	Volum	e (CY) per	Number of		TOTAL VOLUME (CY)
Landing patch rock	2½"-0"	0+00 to 12+70		9	Landing	9	Landings	81
ROAD SEGMENT	E4 to E5							
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)	
Junction patch rock	1½"-0"	Pt. E4		9	junction	1	junction	9

# EXHIBIT E ROAD SURFACING

ROAD SEGMENT				G to C	31			
Application	Rock Size and Type	Location	Depth of Rock (inches)		Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)
Surface rock	1½"-0"	0+00 to 41+20	3	17	station	41.2	stations	700
Surface rock	1½"-0"	41+20 to 45+20	3	17	station	4.0	stations	69
Spot rock	1½"-0"	45+20 to 82+30		10	station	37.1	stations	371
Turnout rock	2½"-0"	0+00 to 45+20		18	turnout	2	turnouts	36
Curve Widening	1½"-0"	0+00 to 45+20	3					68
Turnaround rock	2½"-0"	Pt. G1		27	turnaround	1	turnaround	27
Junction fillet rock	1½"-0"	Pt. G		18	junction	1	junction	18
Landing rock	Jaw-run	76+00, 79+00		18	Landing	2	Landings	36
ROAD SEGMENT	G to G1							
Post Harvest Application	Rock Size and Type	Location	Depth of Rock (inches)	Volum	e (CY) per	er Number of		TOTAL VOLUME (CY)
Landing patch rock	1½"-0"	0+00 to 82+80		9	Landing	22	Landings	198
ROAD SEGMENT				G2 to	G3			
Application	Rock Size and Type	Location	Depth of Rock (inches) Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)		
Surface rock	2½"-0"	0+00 to 3+50	3	17	station	3.5	stations	60
Landing rock	Jaw-run	Pt. G3		27	Landing	1	Landing	27
Junction fillet rock	2½"-0"	Pt. G2		27	junction	1	junction	27
Culvert base rock	2½"-0"	sta. 2+20						12
ROAD SEGMENT	G2 to G3							
Post Harvest Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per		Num	ber of	TOTAL VOLUME (CY)
Turnaround rock	2½"-0"	Pt. G3		27	turnaround	1	turnaround	27

# EXHIBIT E ROAD SURFACING

ROAD SEGMENT				G4 to (	<b>G</b> 5			
Application	Rock Size and Type	Location	Depth of Rock (inches)		Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)
Base rock	2½"-0"	16+20 to 17+00	6	33	station	0.8	stations	27
Surface rock	1½"-0"	0+00 to 16+20	3	17	station	16.2	stations	276
Curve Widening	1½"-0"	0+00 to 16+20	3					30
Junction fillet rock	1½"-0"	Pt. G4		18	junction	1	junction	18
Landing rock	Jaw-run	Pt. G5, 2+50		27	Landing	2	Landing	54
Turnaround rock	2½"-0"	16+20	8	27	turnaround	1	turnaround	27
ROAD SEGMENT				G4 to	<b>G</b> 5			T0=
Post Harvest Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)	
Landing patch rock	1½"-0"	2+50 & 15+70		9	Landing	2	Landings	18
Turnaround rock	2½"-0"	16+20						27
ROAD SEGMENT				H to F	l1			
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)	
Landing rock	Jaw-run	Pt. H1		27	Landing	1	Landing	27
Turnout rock								
Spot rock	2½"-0"	0+00 to 10+80		180	mile	0.2	miles	36
Junction fillet rock	2½"-0"	Pt .H		27	fillet	1	fillet	27
ROAD SEGMENT				H to H	11			
Post Harvest Application	Rock Size and Type	Location	Depth of Rock (inches)	Volum	e (CY) per	Number of		TOTAL VOLUME (CY)
Turnaround rock	2½"-0"	Pt. H1		27	turnaround	1	turnaround	27
ROAD SEGMENT	Haul Routes							TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per Number of		ber of	TOTAL VOLUME (CY)	
Final Maintenance Rock	1½"-0"	Haul Routes						180
Final Maintenance Rock	2½"-0"	Haul Routes						9

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

Additional rock for curve widening is required and has been included in the volume estimates.

Fifty feet has been subtracted from the total length of rock roads for the Landing rock.

Rock volumes rounded to nearest 9 or 18 CYD load.

Turnouts and turnarounds shall be rocked concurrently with the road.

# **EXHIBIT E**

# **CRUSHED ROCK SPECIFICATIONS**

Materials. The material shall be well graded and consistent.

<u>Quality and Grading Requirements</u>. The stone base materials shall be crushed rock. River gravel shall not be used.

If material is specified as durable, it must meet the following test requirements:

Hardness - Test Method AASHTO T 96: 30% Maximum

Durability - Test Method ODOT TM 208

Passing No. 20 Sieve: 30% Maximum

For 1½"-0"	Passing	2" sieve	100%
	Passing	1½" sieve	95-100%
	Passing	3/4" sieve	55-75%
	Passing	1/4" sieve	35-50%

Of the fraction passing 1/4" sieve, 40% to 60% shall pass the No. 10 sieve.

For 2½ "-0"	Passing	3" sieve	100%
	Passing	2½" sieve	95-100%
	Passing	1¼" sieve	55-75%
	Passing	1/4" sieve	30-45%

Of the fraction passing 1/4" sieve, 40% to 60% shall pass the No. 10 sieve.

For Jaw-Run	Passing	6" sieve	100%
	Passing	3" sieve	45-65%

State Timber Sale Contract No. 341-08-28 Beavers Rock

# **EXHIBIT E**

#### **ROCK ACCOUNTABILITY**

The rock shall meet the quality and size specifications in Exhibit E. A copy of the rock test sheets shall be supplied to and approved by STATE prior to rocking. 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 sediments will not enter streams.

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 E. 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. If additional rock is required because of insufficient depth, it shall be added by truck measure to those areas that were slighted. The conversion from compacted yardage to truck yardage is 1.3 multiplied by the compacted yardage equals truck yardage.

The depth of compacted aggregates shall not vary more than 1 inch from the depth specified in Exhibit E. The average depth for each road segment shall be the specified depth or greater.

<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.

#### **EXHIBIT E**

#### COMPACTION AND PROCESSING REQUIREMENTS

<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 visible deformation ceases, or in the case of a sheepsfoot roller, the roller "walks out." At least 3 passes shall be made over the entire width and length of the road. A pass is defined as traveling a road section in one direction and then back over that same section again. 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 unless otherwise specified.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
G4 to G5 Station 16+20 to 17+50	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 or, in the case of a sheepsfoot roller, the roller "walks out." At least 3 passes shall be made over the entire width and length of each layer. A pass is defined as traveling a fill layer in one direction and then back over that same layer again.

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
G2 to G3 Station 2+20	2

# **EXHIBIT E**

#### 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 a 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. A pass is defined as traveling a road section in one direction and then back over that same section again. 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 unless otherwise specified.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
G to G1 Station 0+00 to 45+20, G2 to G3, and G4 to G5	1 and 3
G2 to G3 Station 2+20	2
Spot, maintenance, and patch rock	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 mile to 1.8 miles per hour as directed by STATE.
- (2) <u>Vibratory Hand-Operated or Backhoe-Mounted Tamper</u>. Vibratory hand-held or hydraulic tampers shall be used for compaction of backfill materials around culverts (and/or bridge approach embankment materials around abutments). The tamper shoe dimensions shall be a minimum of 10" X 13" and capable of a centrifugal force of 2,250 pounds.
- (3) <u>Rock Trucks</u>. Rock spreading shall begin at the nearest point to the rock source and progress toward the end of the project. Rock trucks shall be routed over the entire cross section of rock layers.

# **EXHIBIT F**

# **CULVERT SPECIFICATIONS**

All culvert materials shall be furnished and installed by PURCHASER, unless otherwise specified in the Contract. Culverts shall be constructed of corrugated galvanized or aluminized steel unless otherwise specified in the Contract. All culverts shall conform to the material and fabricating requirements of the "Standard Specifications for Highway Construction" prepared by the Highway Division of the Oregon State Department of Transportation. Corrugation types and shapes other than those meeting the above minimum Highway requirements, shall be approved in writing by STATE.

Watertight joints with gaskets are required for all culverts 36 inches in diameter or larger. Required gasket materials shall be in accordance with the minimum requirements of the Oregon Department of Transportation Drawing RD 354, or as approved in writing by STATE.

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 stipulated in special instructions.

Culvert grade shall slope away from ditch equal to or greater than the ditch grade.

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 pipe. The culvert trench shall be excavated 1½ times the pipe diameter with at least 2 feet on each side of the pipe to permit compaction and working. Tamping shall be done in 6-inch lifts, each side of the pipe to 95 percent density or over. Bedrock shall be excavated as required to provide a uniform foundation for the full length of the culvert.

A bedding of granulated material or 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 pipe.

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

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

Joining shall be done with bands of like material and corrugations. Manufacturers' instructions shall be followed for prefabricated pipe assembly.

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

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

# **EXHIBIT F**

#### **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 a 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.

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

			Band Widths (")		Hugger Band Widths (")		
Dia.	Steel Pipe Gauge	Band Gauges	<u>Annula</u>	<u>ar Helica</u>	I Dimpled	<u>Annular</u>	<u>Helical</u>
12-15	16	16	7	12	12	13 1/8	10 1/2
18-24	16	16	12	12	12	13 1/8	10 1/2
30-36	16	16	12	12	12	13 1/8	10 1/2
42	14	16	12	12	NA	13 1/8	10 1/2
48	14	16	24	24	NA	13 1/8	10 1/2
54	14	16	24	24	NA	13 1/8	10 1/2
60	12	16	24	24	NA	13 1/8	10 1/2
66-72	12	16	24	24	NA	13 1/8	10 1/2
78	12	16	24	24	NA	13 1/8	10 1/2
84	12	16	24	24	NA	14 3/4	10 1/2
90-120	12	16	26	26	NA	NA	NA

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

Polyethylene culverts shall be double walled and meet the requirements of AASHTO M-294-901, Type S.

# **EXHIBIT F**

# **CULVERT LIST**

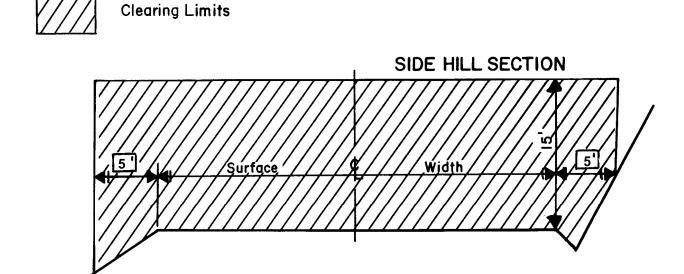
CULVERT NO.	DIAMETER (Inches)	CULVERT GAUGE	LENGTH (Feet)	MATERIAL TYPE	ROAD SEGMENT POINT TO POINT	STATION
1	18	16	30	Aluminized	G2 to G3	2+20

Tamping is required.

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

#### **EXHIBIT G**

# ROAD BRUSHING SPECIFICATIONS

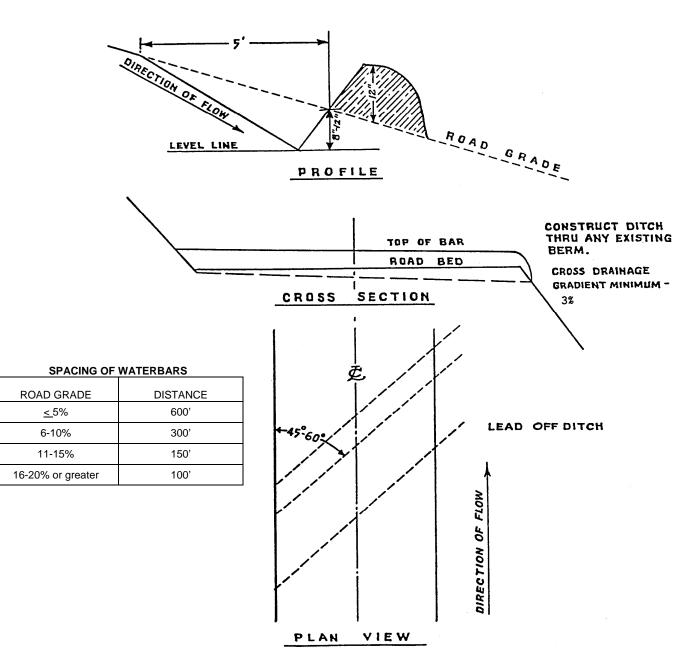


# **REQUIREMENTS**

Unless otherwise approved in writing by STATE, brush and trees shall be cut to a height of 6 inches or less above the ground surface or obstructions such as rocks or existing stumps. Trees shall not be felled unless a portion of the bole is within the clearing limits.

Debris resulting from the brushing operation shall be removed from the roadway, cutslope, ditches, and water courses within 72 hours and may be scattered downslope from the road or placed in other stable locations, unless otherwise approved by STATE.

EXHIBIT H
WATERBAR SPECIFICATIONS



WATERBAR SPECIFICATIONS FOR CROSS DITCHING #298

# EXHIBIT H

# TANK TRAP SPECIFICATIONS

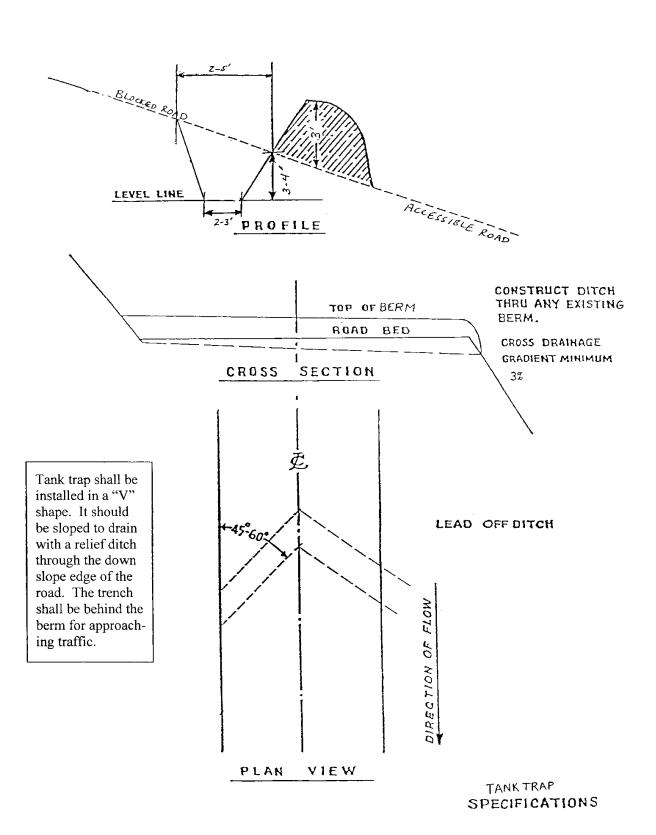
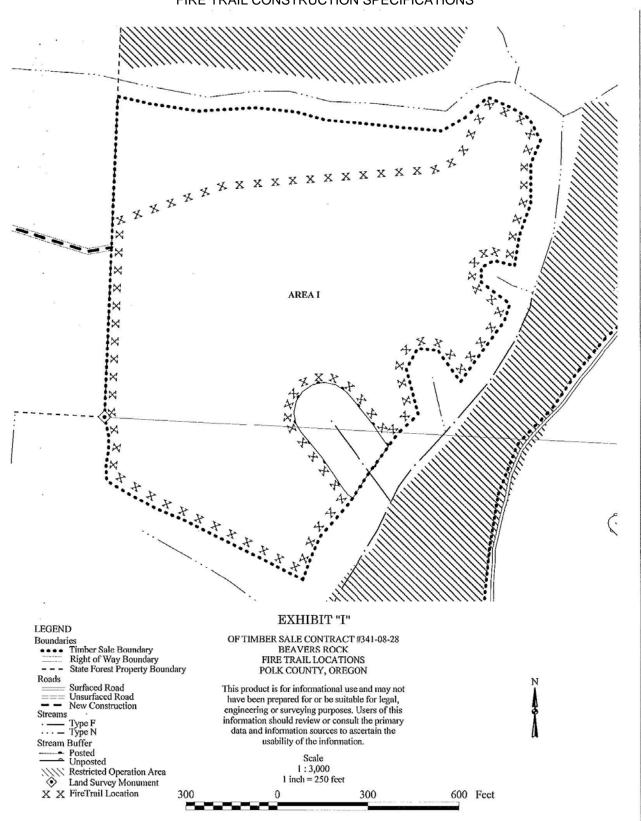


EXHIBIT I FIRE TRAIL CONSTRUCTION SPECIFICATIONS



# PART IV: OTHER INFORMATION

State Timber Sale Contract No. 341-08-28 Beavers Rock Page 1 of 2

# FPA Written Plan for Timber Harvest Beavers Rock Timber Sale

Portions of Section 34, T9S, R8W, and Section 3, T10S, R8W, W.M., Polk County, Oregon.

Protected Resource: Marbled Murrelet Management Area adjacent to Areas II and III.

<u>Situation:</u> Areas II and Area III are within 100 meters of a marbled murrelet management area. These areas have seasonal operating restrictions that will not allow operations during the nesting season.

# **Resource Protection Measures:**

- Log hauling shall not be allowed from April 1 through September 15
- Felling operations shall not be allowed from April 1 through September 15
- Cable Yarding operations shall not be allowed from April 1 through September 15
- Ground based operations shall not be allowed from November 1 through September 15
- Work on those portions of Project Nos. 1, 2, and 3 within Areas II and III shall not be allowed from November 1 through August 5.
- Operations shall not be allowed within 2 hours of sunrise and sunset from August 6 through September 15

I, the undersigned, submit this written plan in compliance with the requirements of the Forest Practices Act, regarding operations conducted within  $\frac{1}{4}$  mile of a Marbled Murrelet Management Area.

PURCHASER REPRESENTATIVE	DATE
STATE REPRESENTATIVE	DATE

Attachment: Exhibit A

# FPA Written Plan for Timber Harvest Beavers Rock Timber Sale

Portions of Section 34, T9S, R8W, and Section 3, T10S, R8W, W.M., Polk County, Oregon.

Protected Resource: A small Type F stream in Area I and Area II.

<u>Situation</u>: A small Type F stream runs east out of Area I, and "Buffer Zone" boundaries are posted an average of 100 feet horizontal distance from the stream. A Type F stream runs south out of Area II, and "Buffer Zone" boundaries are posted an average of 25 feet horizontal distance from the stream.

# **Resource Protection Measures:**

 When skylines pass over the stream, pull cables out of the streamside vegetation prior to rigging the next Yarding road.

I, the undersigned, submit this written plan in compliance with the requirements of the Forest Practices

- Do not lower skyline cables into streamside vegetation during the Yarding cycle.
- Space skyline corridors passing over stream a minimum of 100 feet apart.
- Do not fell any trees within the Stream Buffer.
- Fell trees adjacent to the Stream Buffer so that they do not fall into the Stream Buffer.
- Yard all logs away from the stream.

Act, regarding operations conducted within	n 100 feet of type F streams.	
PURCHASER REPRESENTATIVE	DATE	
STATE REPRESENTATIVE	DATE	

Attachment: Exhibit A