EXHIBIT "B"

FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DITCH REQUIRED	OUTSLOPE
14 feet	12 feet	A to B	0+00 to 166+30	Yes	No
14 feet	12 feet	A to B	166+30 to 179+00	No	Yes
14 feet		B to C	0+00 to 7+00	No	Yes
14 feet		C to E	0+00 to 19+00	No	No
14 feet		D to D1	0+00 to 1+30	No	No

<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 staked, 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 classifications are as follows:

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 through openings in the timber outside of the cleared right-of-way, except areas where end-haul is required.

EXHIBIT "B"

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 B.

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.

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

<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.

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%	3/4:1	
Common - turnpike (level) section	2:1	

Top of cutslope shall be rounded.

<u>LANDINGS</u>. Landings shall be constructed no less than 50 feet wide and no more than 70 feet wide. Surface is to be crowned for drainage, with general grade no more than 3 percent. Surface as shown on Exhibit C.

EXHIBIT "B"

COMPACTION AND PROCESSING REQUIREMENTS

<u>Subgrade</u>. Subgrade surfaces of the road segments listed below shall be compacted. Compaction shall be accomplished by traveling all surfaces from shoulder to shoulder until visible deformation ceases. 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 the approved equipment option listed below:

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
C to E and D to D1	Crawler Tractor

<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 of 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 the approved equipment option listed below:

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
C to E and D to D1	Crawler Tractor

COMPACTION EQUIPMENT OPTION

Crawler Tractors. D-7 Caterpillar or equivalent or larger.

EXHIBIT "C" ROAD SURFACING

TYPE OF ROCK	SIZE OF ROCK	AMOUNT	LOCATION	TOTAL VOLUME
Landing Rock	4"-0"	45 CY	Station 141+50 along haul route	45 CY
Landing Patch Rock	1½"-0"	18 CY	Station 141+50 along haul route	18 CY
Spot Rock	1½"-0"	153 CY	Haul Route	153 CY
Maintenance Rock	1½"-0"	108 CY	Haul Route	108 CY

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

Roads shall be uniformly graded and approved by STATE prior to rocking. For typical cross section, see Forestry Department Drawing Nos. 351-C and 351-D at the Forestry Department district office.

Rock Placement and Compaction. 4"-0" landing rock shall be spread along the edges of the existing road and walked in with a D-7 or larger tractor. A minimum of 3 passes shall be made over all surfaces.

Landing patch, spot, and maintenance rock shall be placed prior to final maintenance grading. Rock spread shall begin at the point nearest to the rock source and progress toward the end of the project. Rock trucks shall be routed over the entire cross section of the rock layer.

State Timber Sale Contract No. 341-04-37 Buttermilk

EXHIBIT "C"

CRUSHED ROCK SPECIFICATIONS

<u>Materials</u>. The material shall be fragments of rock or other hard, durable particles crushed to the required size and a filler of finely crushed stone, sand, or other finely divided mineral matter. The material shall be free from vegetation and lumps of clay.

Quality and Grading Requirements. The stone base materials shall be crushed rock, including sand. River gravel shall not be used.

The material from which base material is produced or manufactured shall conform to the general requirements of Section 2630 of the "Standard Specifications for Highway Construction" prepared by the Highway Division, Oregon Department of Transportation, and shall meet the following test requirements:

Hardness - Test Method AASHTO T 96 35% Maximum

Durability - Test Method ODOT TM 208

Passing No. 20 Sieve: 30% Maximum Sediment Height: 3" 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 4"-0"	Passing	4½" sieve	100%
	Passing	4" sieve	95-100%
	Passing	2" sieve	55-75%
	Passing	1/4" sieve	30-45%

The referenced sieve shall have square openings as set forth in AASHTO M 92, Woven Cloth Series. The determinations of size and gradings shall be as set forth in AASHTO T 27.

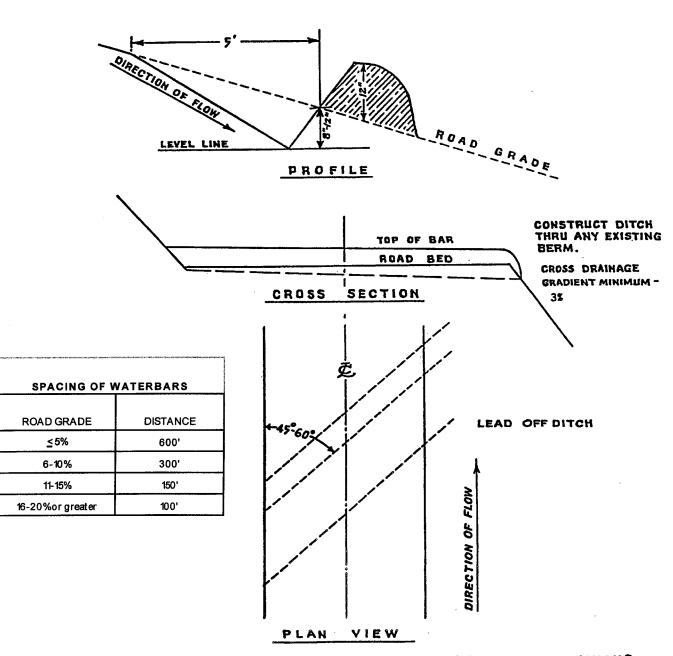
ROCK ACCOUNTABILITY

The rock shall meet the quality and size specifications in Exhibit C. A sample of the rock shall be supplied to STATE for testing and approval 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>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 "D"
WATERBAR SPECIFICATIONS



WATERBAR SPECIFICATIONS FOR OROSS DITCHING #298

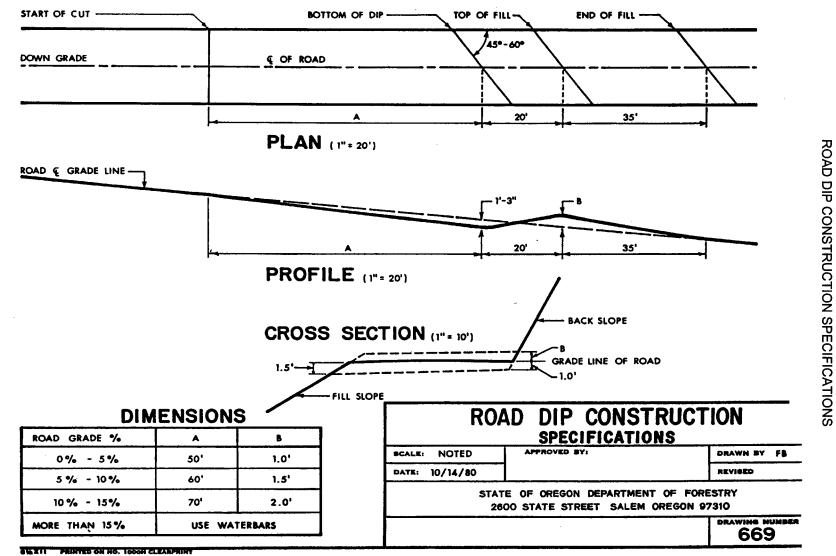


EXHIBIT "D"

TANK TRAP SPECIFICATIONS

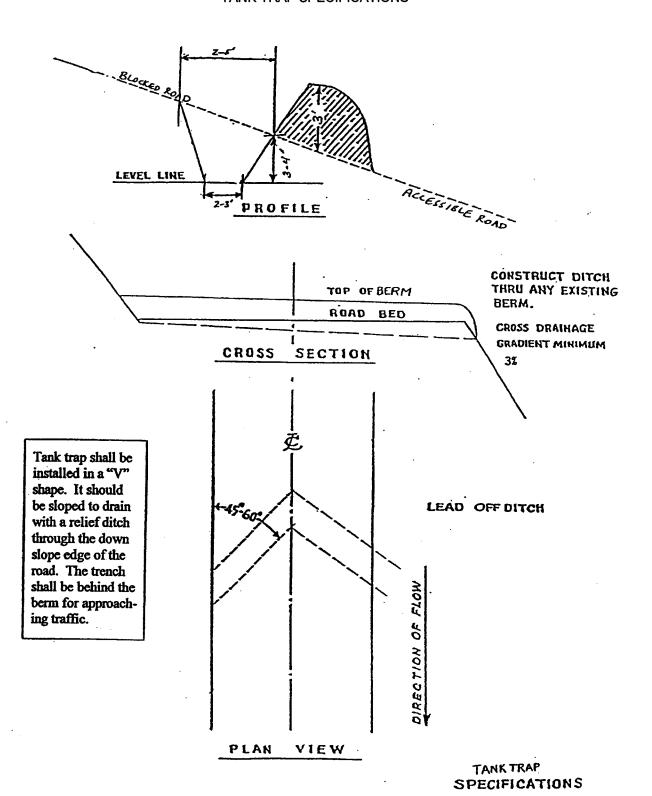


EXHIBIT "E" OREGON DEPARTMENT OF FORESTRY

SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1)	ORIGINA	L REGISTRA	ATION	☐ Date	•	_	(40)	CALE MAME Buttonicity
	REVISION			☐ Date		(12)	SALE NAME Buttermilk	
	CANCELL	ATION		☐ Date	e			COUNTY Lincoln
(2)	TO:						(13)	
	TO:(Third Party Scaling Organization)			(14)	SCALE: westside ⊠ eastside □ cubic foot			
(3)) FROM: <u>West Oregon</u> Phone (State Forestry District)			(541) 929-3266		(15)	STATE BRAND REGISTRATION NUMBER	
	Address 2	Address 24533 Alsea Hwy, Philomath, OR 97370					(16)	BUREAU BRAND CODE NUMBER
(4)	PURCHASER:						(17)	STATE BRAND INFORMATION:
	Address _							(COMPLETE)
(5)		MINIMUM SCALING						
	SPECIFICATIONS SCALING *NET		CLASS)		
c	SPECIES	DIAMETER INCHES	SCALE VOLUME	PER	** SUM	SUB		
	Conifers		10 BF	MBF X	SUIVI	SUB		
H	ardwoods		20 BF	х				(
Ha	ardwoods		< 20 BF			X		
На	ardwoods	-	Utility (pulp)			X		
•		olume test to whole): see instructions a			stside.	<u></u>		
(6)	WESTSID	E SCALE:		Y	'ES	NO	(18)	PAINT REQUIRED: YES ⊠
. ,	Actual taper all logs over 40' scaling length					, ,	COLOR Orange	
(7)	EASTSIDE *Actual taper	E SCALE: butt logs over 40' sca	aling length				(19) SPECIAL SCALES
(8)	PENCIL B			'			PEI	ELABLE CULL (all species)
(9)		um Scaling Diamete						ILITY/PULP (all species) DEDUCTIONS ALLOWED
υ,		ADD-BACK VOLUME Deductions due to delay						R MECHANICAL DAMAGE
(4.0)	A DDDOV/EI	D OOAL INO		1	- 1		ОТ	HER:
(10)	APPROVE!		Species	Yard	ı Tr	uck	011	HER:
							<u> </u>	
							(20)	REMARKS:
							•	
							Opera	ttor's Name (Optional inclusion by District):
			<u></u>				(21)	SIGNATURES:
11)	NOTICE O	E CANCELL	ATION OF	BRANI	٦٠			
• • •	NOTICE OF CANCELLATION OF BRAN Effective Date:				 			Purchaser or Authorized Representative Da
į	State Foreste	r's Representat	tive		,			State Forester Representative Da
State Foleste								

EXHIBIT "E"

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 45, "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 SUB species 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 (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.