

**Engineering Notes for  
Bear View Thin STWD  
3/28/2016**

A. Haul route roads:

The haul routes for this sale are on National Forest System (NFS) roads, Lincoln County Roads and Highways 101 and 20. Log haul will travel south on NFS roads listed in Table 1.1 then west on Lincoln County Road 702 (Bayview Road) , then south on U.S. 101 and east on Hwy 34 to the appraisal point of Philomath Oregon.

All roads used in this sale are non-key roads except the 5100 which is key.

The 5147 provides access to Bonneville Power Administration towers and access must be provided when required by the Agency.

Maintenance on this sale is contractor responsibility.

NFS road beginning and ending termini are detailed in table 1.1

Table 1.1

<b>Road No.</b>	<b>Miles</b>	<b>Beginning Milepost</b>	<b>Ending Termini/Milepost</b>
5100	3.54	LNC-702	5189 jct
5147	0.34	5100	MP 0.34
5100392	0.62	5100	MP 0.62
5189	2.07	5100	MP 2.07

The remaining portions of roads listed in Table 1.1 are not planned for use under this contract. Spot rock for NFS roads is included and appraised for.

B. System and temporary roads –season of haul, road protection and truck assist. See logging feasibility report (LFR) for details on temporary roads.

In general, all system roads are appraised for rock re-surfacing or spot rocking.

Truck assist is not appraised for.

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C. Unit Notes:

Temporary roads are primarily native surfaced.

Unit 1: South and east portions of unit has roadside landings along 5147 and 5100 respectively. Spurs to all other landings A- I are native surfaced and 10-15% adverse. Spur into unit accesses mostly ground based. Spur to landing E new construction.

Unit 2: Short road to landing is well rocked. Landing Q from unit 1 accessed by this road

Unit 3: Main spur to unit begins at the end of the 5100392. Spur to landing A is native surface and has a seep along the cut bank saturating the road. Other spurs into unit are native surfaced. Spurs to landings B, D & J are new construction. System road to unit 3 has areas of seepage and poor drainage. The proximity to a perennial stream beyond junction of 392/394 precludes all season use.

Unit 4: Roadside landings along 5100. Landing H all season.

Unit 5: Native surfaced spur into unit. Aligned to haul north, trucks may have to turn around at junction of 5100/5189.

Unit 8: Smaller unit along 5100

Unit 9: Longer native surface spur with minimal rock into landings E-J. Spur is 10-18% adverse to 5189. Some edge cracking from root pull along first half of spur. Spurs to C & M are new construction.

Unit 10: Landings are split between two roads. West fork is native surface to landing A with heavy brush in travelway, outsloped and adverse to spur junction. East fork/Main segment is well rocked and has light brush to landing E. Spurs to B & C are new construction.

Unit 11: Spur to landing A is native surfaced. Road from landing D to E 17% adverse.

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Table 1.2 Temporary Road Season of Haul

Temp Spurs into Unit #	All Season Option	Dry Season	All season
1	X		Ldg Q
2			X
3		X	
4			X
5		X	
8			X
9	Ldgs F-J		Ldgs C, E, K & M
10	Ldgs A, B & C		Ldgs D & E
11	X		

(X) Denotes Contractor option to upgrade to all season

D. Pre and post sale operational status for the system roads:

Road #	Presale status	Post sale planned status	Waterbars/berms
5100000	Key, Open	Key, Open	None /None
5100392	Non-Key, Open	Non-Key, Closed	Type 1 /Berm
5147000	Non-Key, Open	Non-Key, Open	Type 2 / None
5189000	Non-Key, Open	Non-Key, Open	Type 2 /None

E. Log Haul Operating season and Haul routes.

Unit Number	Planned Haul Route	Engineering Log Haul Operating season *
1	NFS 5147/5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season system roads, dry season temp
2	NFS 5147/5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season
3	NFS 5100392 → NFS 5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	Dry season
4	NFS 5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season
5	NFS 5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season system roads, dry season temp
8	NFS 5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season system roads
9	NFS 5189 → NFS 5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season system roads, dry season temp.

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10	NFS 5189 → NFS 5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season system roads, & ldgs D,E dry season temp.
11	NFS 5189 → NFS 5100 → LNC 702 → Hwy 101 → Hwy 34 → Philomath	All season system roads, dry season temp.

\* Dry season is typically June 15 – October 15.

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