

Pre-Operations Report

Operation Name: Re-Cline (Alternate)
County: Lincoln
Management Basin: Burnt Woods Ridge

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Net Acres
	Moderate Partial Cut	330

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The operation consists of one partial cut unit. The unit lies in the western hemlock vegetation zone. Average rainfall is 68 to 78 inches per year on 171 acres of the operation area and 78 to 100 inches per year on the remaining 159 acres.

Soils are predominantly Valino, covering about 77 percent of the operation area. Ork makes up 21 percent and Killam fills in the remaining 2 percent. Valino soils are composed of deep, well-drained, moderately coarse-textured soils that developed from Tye sandstone. Ork soils are deep, well drained, fine textured, rock-free residuum derived from Tye sandstone. Killam soils consist of deep, well drained, moderately fine-textured colluvial soils that developed from basalt. The soil information is derived from a soil survey completed in 1980.

Aspect for the operation area is east in the western third of the unit, the central portion is divided between east and west and the eastern portion of the area has a northerly and easterly aspect.

II. CURRENT STAND CONDITION:

The operation area contains 13 separate stand level inventory (SLI) types, however the ages are all within four years of each other and average about 46 years old. All but approximately 15 acres of the operation area was commercially thinned in 1995.

Snags and downed wood are not present in significant numbers. There are scattered red alder and big leaf maple within all the stands.

Brush species consist of salal, vine maple, sword fern, salmonberry, red huckleberry, snowberry, elderberry and hazel.

The majority of the stands are classified as UDS with 8 acres of REG, consisting of patchcuts that were planted in 1998.

Table 2. Stand Inventory Information

The following SLI stand types are present within the operation area: 18772, 18774, 18775, 18776, 18783, 18784, 18785, 18786, 18787, 18788, 18789, 18790, and 18791. Based on district plot data on the entire operation area, the average DBH is approximately 16”; average basal area is 200 sq. ft/ acre; there are approximately 143 trees per acre; and the relative density is about 50 for all of these SLI types.

Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	RD	Acres ²
Partial Cut	All 13 SLI types	Douglas-fir	46	16	200	143	50	330
	Target ³			19	140	71	32	

1 The source of stand inventory information is district plot data from 2007 and 2008.

2 The acres are based on GIS and exclude roads, streams buffers, reserve areas, etc.

3 The Target identifies expected stand characteristics (DBH, BA, TPA and RD) after harvesting has been completed.

III. DESIRED STAND CONDITION:

According to the District’s landscape design, the operation area is designated as having a DFC of Layered (LYR).

Vision: The LYR condition will be attained by the time the area reaches an approximate average age of 70 years. When it reaches the DFC, the area will consist of an overstory of Douglas-fir and a few alder. Beneath the overstory will be a patchy second layer of western redcedar, western hemlock, Douglas-fir and alder. A lower layer of brush (elderberry, salmonberry and sword fern) and scattered mixed conifer and hardwood will exist in small openings located throughout the area. Snags and down wood will be present throughout the area.

Table 3. Stand Structure Information

Stand ID	Current	Post Harvest ¹	Desired Future	Acres
18772	UDS	UDS	LYR	44
18774	UDS	UDS	LYR	62
18775	UDS	UDS	LYR	6
18776	REG	UDS	LYR	8
18783	UDS	UDS	LYR	7
18784	UDS	UDS	LYR	34
18785	UDS	UDS	LYR	25
18786	UDS	UDS	LYR	16
18787	UDS	UDS	LYR	19
18788	UDS	UDS	LYR	7
18789	UDS	UDS	LYR	16
18790	UDS	UDS	LYR	37
18791	UDS	UDS	LYR	49

¹ The stand is expected to develop into this condition in the five to ten years after this operation is completed.

IV. PROPOSED MANAGEMENT PRESCRIPTION:

Anticipated Pathway: During this commercial entry, the area will be thinned to an average RD of about 32, leaving an average of 71 TPA. The average DBH of residual trees is expected to be about 19 inches.

- Most snags and downed wood will be left.
- All trees other than Douglas-fir will be reserved from cutting.
- Approximately 20% of the acreage will be put into patchcuts or low relative density (LRD) areas. Patchcuts will range from 2 to 5 acres in size. In each patchcut, a few trees will be marked for retention. LRD areas will be thinned to an RD of about 20 and will be 10 to 15 acres each in size.
- Patchcuts and LRD areas will be treated with site preparation herbicides in order to deter brush competition.
- LRD areas will be underplanted with western hemlock and western redcedar and in approximately equal amounts. Patchcuts will also be planted with Douglas-fir. Both will be planted at a rate of approximately 360 tpa.
- All cedar will be tubed to protect against deer and elk browse. Mountain beaver control work is not expected to be necessary.

It is likely that at least one herbicide application will be needed in the patchcuts within the first 3 years after planting in order to release planted seedlings from competing vegetation.

Five to ten years after thinning, Douglas-fir and hardwood will have seeded naturally into spots in the understory. Trees planted in the patchcuts and LRD areas will be free-to-grow and will be on their way to forming a second layer.

In 10 to 15 years after the second thinning, the RD is expected to be 50-55 and the stand will be thinned again to an RD of about 30.

- At this time, the amount of natural snags and downed wood will be evaluated. If it is determined that additional amounts are needed, then snags and downed wood will be created.
- LRD areas will again be thinned to an RD 20.
- New patchcuts and/or LRD areas will be created on about 10% of the unit acreage. These areas will be planted/underplanted to cedar, and hemlock.
- Following this harvest entry, trees planted/underplanted after the second thinning will be pre-commercially thinned (PCT) if needed.

About 10 years after the third commercial thinning (about age 70), the stand will have reached the LYR condition. The stand will be evaluated at this point to determine if more overstory trees will be harvested or if the amount left will serve as legacy trees.

Over time, some legacy trees will become snags or downed wood. The understory trees will gradually become the overstory component. Continued seed-in of conifer and hardwood will keep the stands in the LYR condition. Density regulation (PCT of understory and commercial thinning of the overstory) will likely occur.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		X
Planned Quarter: Alt.			

	Conifer	Hardwood	Total
Net Volume (MBF)	3,100	0	3,100
Stumpage Value (\$/MBF)	\$250		
Estimated Gross Value	\$775,000		\$775,000
		Project Costs:	\$97,000
		Estimated Net Value:	\$678,000

VI. TRANSPORTATION PLANNING AND HARVESTING:

The transportation system, including stream crossings, for the Re-Cline timber sale is already in place. One, short, ridge top spur will be constructed to better access a small corner of the sale. Four existing dirt spurs will be re-opened and will remain unsurfaced. Existing surfaced spurs and collectors will be graded and

will receive maintenance/spot rock as needed. A lift of rock will be added to a portion of an existing surfaced road to bring it to current standards.

There are at least three small stream crossing culverts along Burntwoods Forest road which are approaching the end of their design life (BWF00 sta 72+46, sta 98+25, & sta 155+16). These culverts are on non fish tributaries of Cline creek. They and maybe a few more are planned for replacement with this sale. There are also at least two cross drain culverts along this road which are planned for replacement (BWF00 sta 24+00 and sta 65+00).

Logging operations will consist of 60% cable and 40% ground based.

All roads accessing this sale are on lands managed by ODF, with the exception of the bottom of Cline Creek Road. Permanent easements with small woodland owners are in place. So no access permits are required.

All unsurfaced roads will be waterbarred, blocked to vehicular traffic, and grass seeded after harvesting operations are concluded, and/or at the beginning of the wet season.

Table 5. Transportation Planning Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct				0.2
Improve			0.2	1.5
Maintain		8.9	1.6	
Close/Block				1.7
Vacate				

VII. AQUATIC RESOURCES AND WATER QUALITY:

Water flowing from streams in the operation areas is part of the Yaquina River System. Water from the operation area flows into Cline Creek, which originates just above the operation area and flows through it. Cline Creek is a medium Type F stream and flows into Little Elk Creek. The ODFW fish biologist will be consulted regarding the potential for placement of large wood in Cline Creek.

Type F streams are located within and adjacent to the operation area. For type F streams adjacent to the operation area, the timber sale boundary will be posted at least 25' horizontal distance from the streams. For type F streams that are within an area, a 25' horizontal distance buffer will be posted along either side of the stream.

Type N streams are present in some of units. For type N streams, a nonposted 25' horizontal distance buffer will be established.

There are numerous streams in the operation area with an unknown status for fish. The ODFW fish biologist will be consulted to determine if the streams are type F or N.

For both type F or N streams, no harvesting will be allowed within the buffer except to facilitate cable yarding. The partial cut thinning prescription will retain sufficient trees in the RMA to comply with current FMP standards.

Vegetation along streams consists of Douglas-fir and red alder trees and brush species such as salmonberry, sword fern, and vine maple.

There are no registered domestic water intakes in the vicinity of the operation areas.

The following mitigation measures will be employed to minimize impacts to streams from timber felling and yarding activities: 1) no timber will be felled within the buffer except to facilitate cable yarding, 2) timber above the buffer will be felled away from or parallel to the stream, 3) timber will be yarded away from the stream, where possible, 4) if it is necessary to yard logs across the stream, logs will be fully suspended above the buffer vegetation, and 5) single-end suspension of logs will be required elsewhere in the units.

Other requirements designed to minimize impacts to streams include seasonal restrictions for road construction and log hauling.

VIII. T&E SPECIES CONSIDERATIONS:

The area wildlife biologist determined the operation area contains suitable habitat for northern spotted owls but does not contain suitable habitat for marbled murrelets. Northern spotted owl surveys were conducted in 2008 with no detections and will be continued in 2009.

The operation area was checked against district knowledge for any listed plant locations. The operation area was also checked against the Oregon Natural Heritage Program (ONHP) database of known threatened or endangered listed plant locations as well as local records in the Land Management Classification System (LMCS). No listed plants were identified within or adjacent to the operation area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based off of USGS 1:24,000 topographic maps and available geologic maps. There are high landslide hazard locations scattered throughout the operation area. The operation area drains to Cline Creek. The risk of

landslides delivering to Cline Creek from the operation area is low to moderate. The north end of the operation area appears to be located on an old, large, deep-seated landslide landform. The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

X. RECREATION RESOURCES:

The operation area supports dispersed recreation opportunities such as hunting.

XI. CULTURAL RESOURCES:

The operation area was checked for cultural resources with the district's GIS inventory. No cultural resources are located in the vicinity of the operation area.

XII. SCENIC RESOURCES:

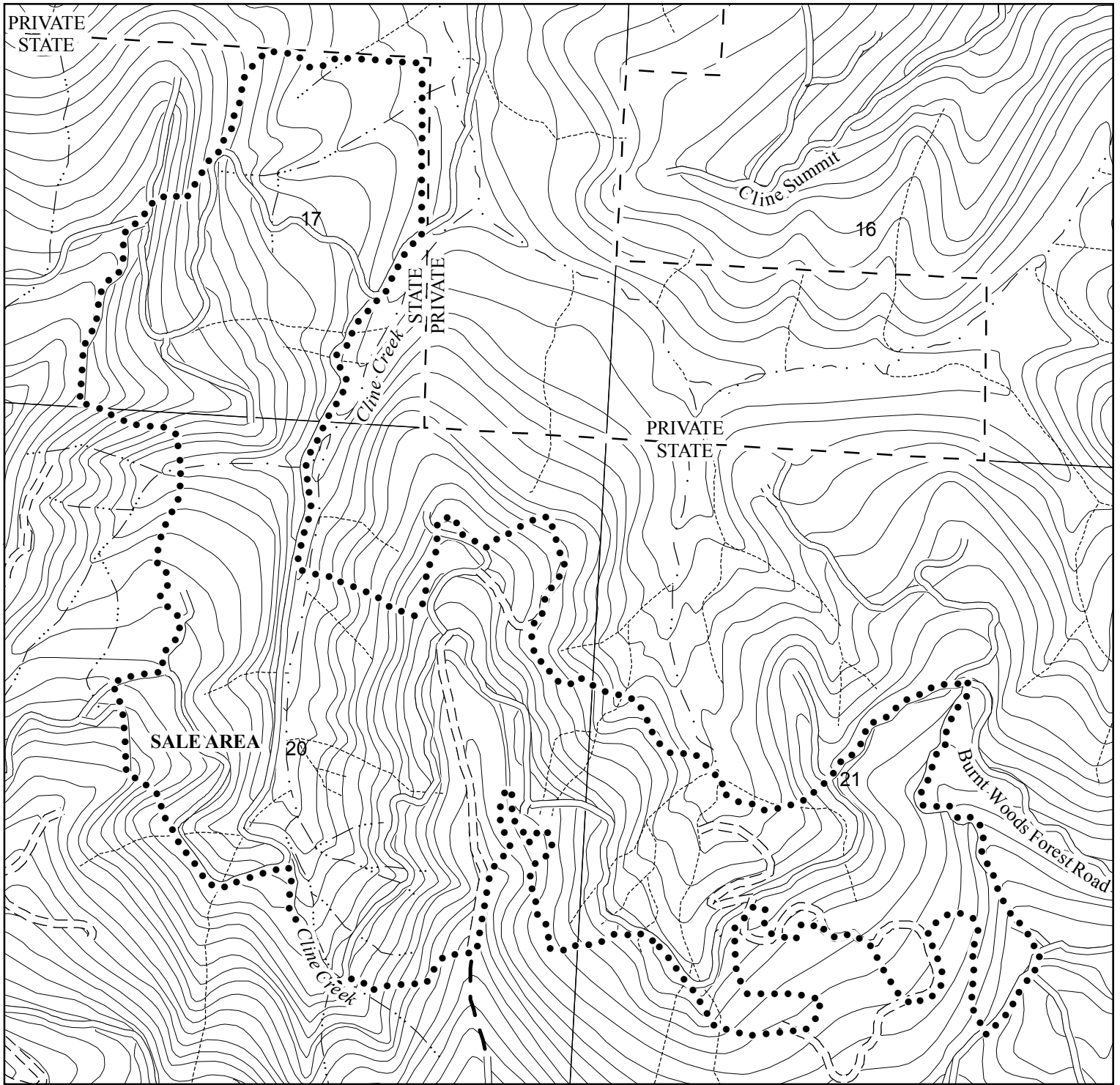
The northern most 113 acres are classified as Focused, Visual. This portion of the operation is visible from Highway 20.

XIII. OTHER RESOURCE CONSIDERATIONS:

No other resource considerations have been identified.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The operation areas contain 93 acres of Focused Stewardship, Aquatic and Riparian Habitat along the type N stream riparian areas. The operation area contains an additional 27 acres in Special Stewardship, Aquatic and Riparian Habitat along the type F streams. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized. There are 113 acres classified as Focused, Visual in the northern most part of the operation area. This part of the operation can be seen from Highway 20.



RE-CLINE

FY 2010 AOP
 WEST OREGON DISTRICT
 ATTACHMENT A : TOPOGRAPHY
 PORTIONS OF SECTION 17, 20, 21, T11S, R8W, W.M.
 LINCOLN COUNTY, OREGON

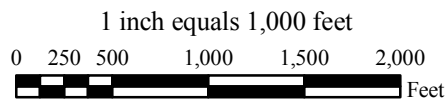
Topography Legend

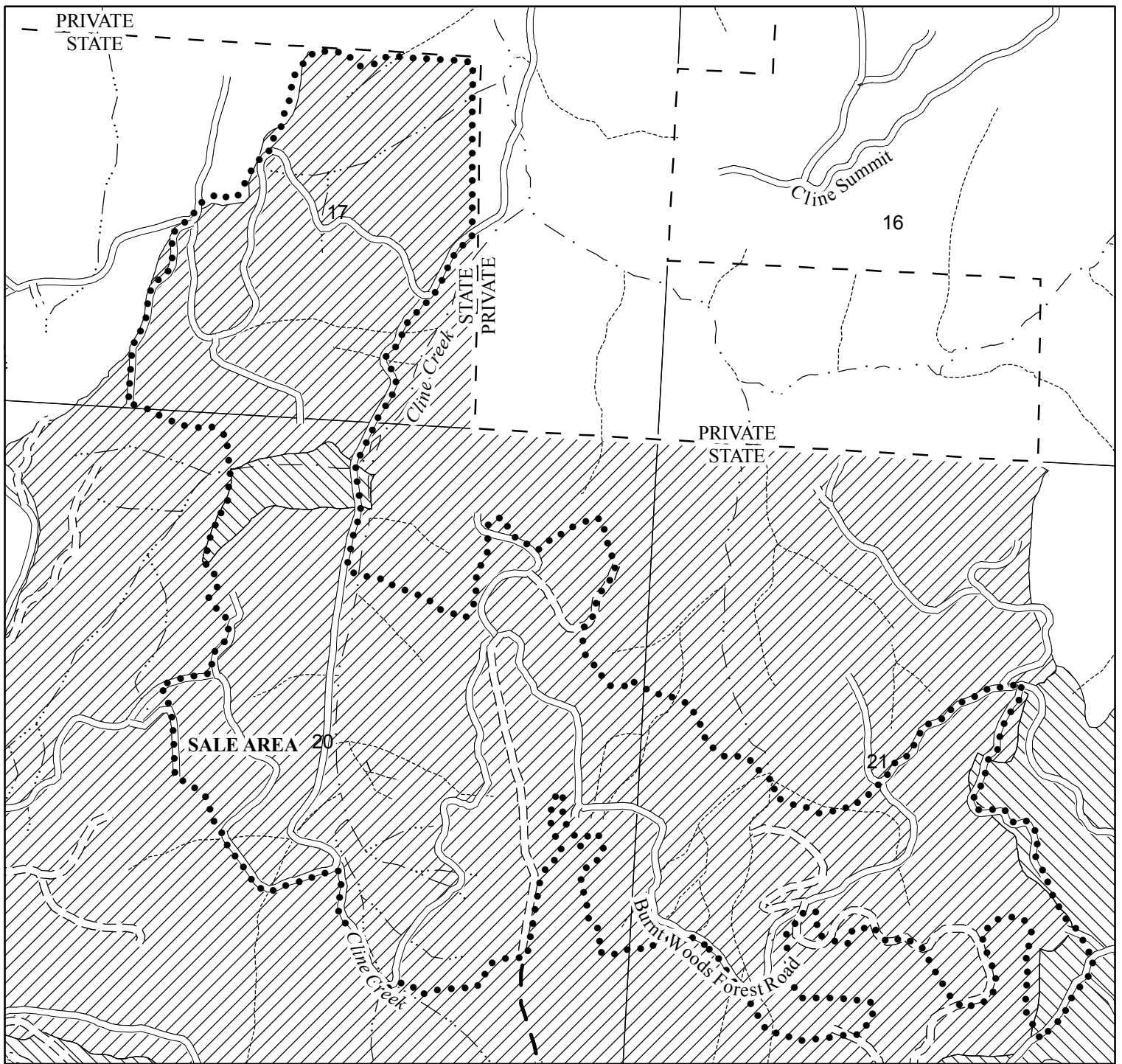
- Timber Sale Boundary
- ▬ Highway
- ▬▬ County Road
- ▬▬▬ Surfaced Road
- ▬▬▬▬ Unsurfaced Road
- ▬▬▬▬▬ New Construction
- · — · Type F Stream
- · · — · · Type N Stream
- · · · · · · · Unknown Stream
- - - - State Forest Property Boundary
- ▬▬▬▬▬ 40 Foot Contour

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APPROXIMATE NET ACRES
 330 ACRES (PC)





DFCC Legend

- Timber Sale Boundaries
- ▬ Highway
- ▬▬ County Road
- ▬▬▬ Surfaced Road
- ▬▬▬▬ Unsurfaced Road
- ▬▬▬▬▬ New Construction
- ▬▬▬▬▬▬ Type F Stream
- ▬▬▬▬▬▬▬ Type N Stream
- ▬▬▬▬▬▬▬▬ Unknown Stream
- ▬▬▬▬▬▬▬▬▬ State Forest Property Boundary
- ▨ Future Condition LYR
- ▩ Future Condition OFS

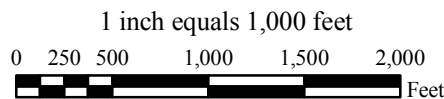
RE-CLINE

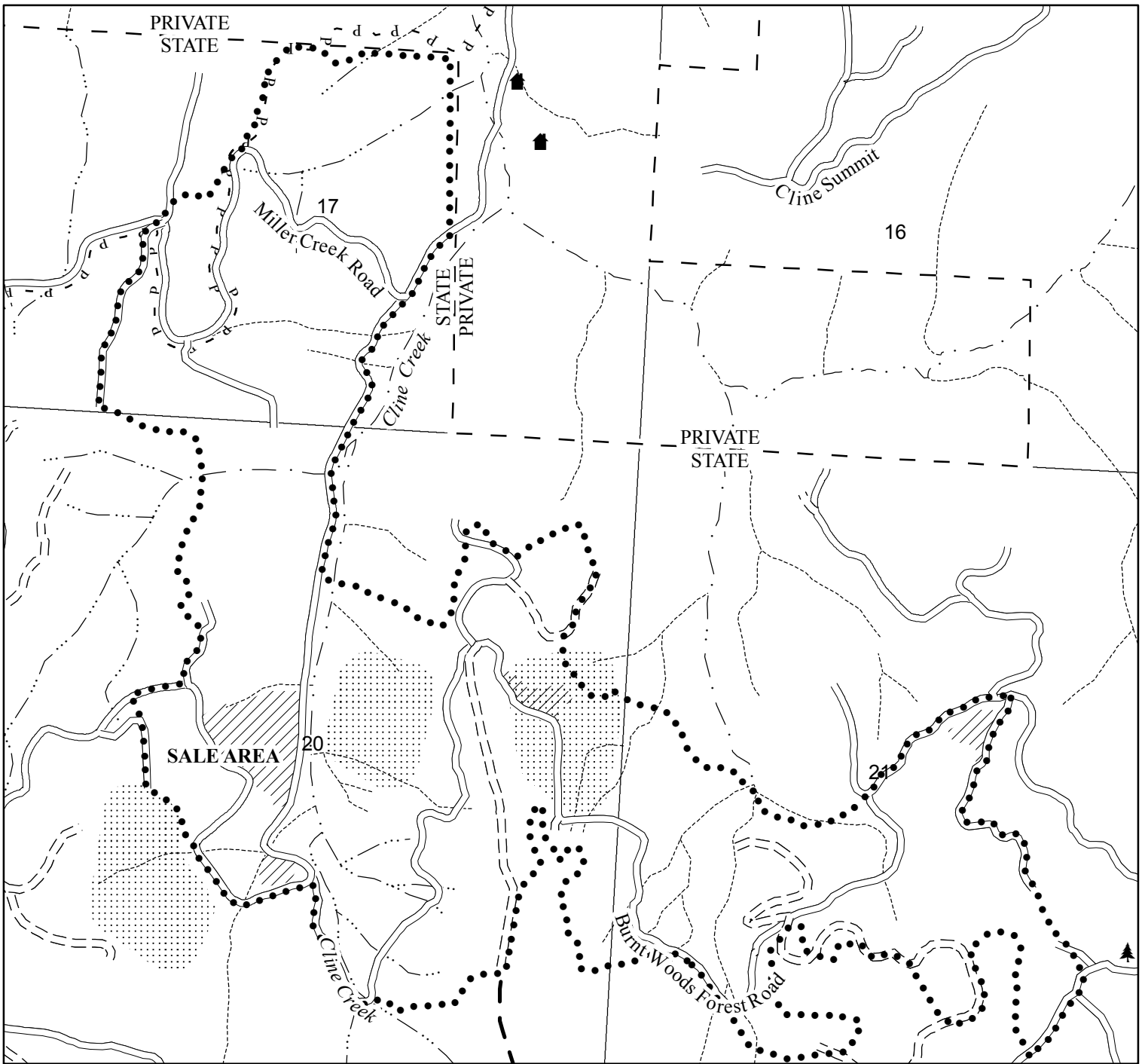
FY 2010 AOP
 WEST OREGON DISTRICT
 ATTACHMENT B : DESIRED FUTURE CONDITION
 PORTIONS OF SECTION 17, 20, 21, T11S, R8W, W.M.
 LINCOLN COUNTY, OREGON

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APPROXIMATE NET ACRES
 330 ACRES (PC)





Key Resources Legend

- Timber Sale Boundary
- 🏠 Buildings
- 🌲 Parent Trees
- ▬ Highway
- ▬▬ County Road
- ▬▬▬ Surfaced Road
- ▬▬▬▬ Unsurfaced Road
- ▬▬▬▬▬ New Construction
- ▬▬▬▬▬▬ Domestic Use Stream
- ▬▬▬▬▬▬▬ Type F Stream
- ▬▬▬▬▬▬▬▬ Type N Stream
- ▬▬▬▬▬▬▬▬▬ Unknown Stream
- P - Underground Phone Line
- ▬ State Forest Property Boundary
- ▨▨▨▨ Reserve Areas
- ▣▣▣▣ High Hazard Areas

RE-CLINE

FY 2010 AOP
 WEST OREGON DISTRICT
 ATTACHMENT C : KEY RESOURCES
 PORTIONS OF SECTION 17, 20, 21, T11S, R8W, W.M.
 LINCOLN COUNTY, OREGON



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APPROXIMATE NET ACRES
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