

Pre-Operations Report

Operation Name: Moose and Squirrel (alternate)

County: Columbia

Management Basin: McGregor Basin

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Modified Clearcut	22	17
2	Modified Clearcut	106	97
Total	Regeneration Harvest	128	114

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes within the sale area have a predominantly western aspect and range from 10% to 50%. Elevations range from 1200 to 1400 feet. Humbug and Pinochle are the major soil types of the sale area.

The sale is located on the moderate slide-slopes of the headwaters of the east flank of the Upper North Fork of Clear Creek below Eastside Grade Road. The sale is underlain by igneous origin rocks of the Tillamook Volcanics Formation and in the southern portion of Area 1 sedimentary rocks of the Cowlitz Formation (*per Dave Michael, Northwest Oregon Area Geotechnical Specialist*).

II. CURRENT STAND CONDITION:

The entire sale area has been inventoried using the Stand Level Inventory (SLI) procedure and the stands have been classified as UDS.

Most of the sale area is comprised of well-stocked stands of Douglas-fir that are classified as UDS. Other conifers are scattered throughout the sale in various amounts and mainly of western redcedar, western hemlock and noble fir. There is also a somewhat significant amount of alder in both sale areas. Some parts of the sale areas are showing signs of competition with receding crowns and poor height to diameter ratios. The underbrush consists mostly of salal, dwarf Oregon-grape, sword fern, bracken fern, vine maple, and huckleberry.

In general the areas lack adequate amounts of downed woody debris, in accordance to the FMP. However, there is a fair amount of class 4 and 5 large woody debris scattered relatively evenly across the sale area. The sale areas currently average 17 hard snags per acre, which will likely add to the DWD post harvest.

The sale area shows minor evidence of *Phellinus*.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age ²	DBH	BA	TPA	SDI	Net Acres ³
1	MC ⁴	7125	DF	46-55	18	205	121	50	17
		<i>Target⁵</i>	<i>REG</i>						17
2	MC ⁴	7133	DF	38-39, 46, 52	20	176	81	41	20
		7145	DF	46-58, 68-75	20	248	118	58	77
		<i>Target⁵</i>	<i>REG</i>						97

¹ The source of stand inventory information is from SLI inventory grown forward to 2006.

² Actual measured breast height ages are shown unless labeled “est.”

³ The acres are based on GIS and exclude existing and planned roads, stream buffers, and green tree retention areas.

⁴ MC is Modified Clearcut.

⁵ The Target row for partial cut areas identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

According to the Forest Grove District’s landscape design for the McGregor basin, the desired future condition (DFC) for Area 1 is 100% LYR, and the DFC for Area 2 is 100% General.

Areas 1 and 2:

Both sale areas have a DFC of General, thus making them available candidates for regeneration harvest. The stands are very uniform in the closed single canopy, stem exclusion stage of development, or transitioning into the understory reinitiation phase of stand development. Creation of hard conifer snags, green tree retention, and DWD scattered throughout the sale areas will maintain and enhance wildlife habitat. The future of these areas is to manage for maximum timber yields within FMP strategies.

Table 3. Stand Structure Information

Area	Prescription	Stand ID	Current	Post Harvest ¹	Desired Future	Net Acres
1	PC-H	7125	UDS	REG	GEN	17
2	MC	7133	UDS	REG	GEN	20
		7145	UDS	REG	GEN	77

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

Both areas will receive the same treatment of modified clearcut; reserve trees will be selected in order to meet FMP guidelines. Trees will be grouped in reserve areas, as part of additional stream buffer, and scattered randomly throughout the area. Two trees per acre will be topped for the creation of hard snags. Approximately 200 cubic feet per acre of class 1 down wood will result from logging slash. Approximately 100 large trees

will be dropped to add class 1 DWD on the gentle slopes within the area. All existing DWD will be reserved. Additional green trees will be retained throughout the sale areas for future DWD recruitment through wind-throw.

A variety of methods will be used to achieve green tree retention requirements. This includes two green tree retention areas, stream buffers, and trees scattered across Area 2. These methods will be used in combination to meet the green tree requirement in the Forest Management Plan (FMP) and provide snags and DWD to the stand, which are expected to develop through natural processes.

After harvest the area may receive herbicidal application, and be planted with Douglas-fir and other coniferous species.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		X
Planned Quarter:		1-4	

	Conifer	Hardwood	Total
Net Volume (MBF)	4000		4000
Stumpage Value (\$/MBF)	400		
Estimated Gross Value	1,600,000		\$1,600,000
		Project Costs:	\$41,000
		Estimated Net Value:	\$1,559,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access is from Highway 26 (MP 35) to North Fork of Wolf Creek Road to McGregor Road to Eastside Grade Road and Pit Road. Access is 100% ODF owned roads. These roads are rocked, all-weather roads.

All new construction will be done on ridge tops and in locations that avoid steep side slopes and new construction will not cross any streams. The upper access road to area 2 (see attached exhibit) will also require a new curve to change directional access onto pit road, as well as general maintenance for improvement.

A road use agreement will be requested for approximately 1300 feet (.25 miles) of road owned by Longview Fibre, to access a portion of Area 2. This access agreement will include road improvement and 200 feet of new construction.

Area 1 will not require new road construction, but may require improvement of some of the existing roads. Also, widening in two parts of area 1 will be required for landings.

Total road construction for the sale will be 500 feet (0.1 miles), costing \$6000. Road widening for landings, a redirection of one spur, and spot rocking will be required at an estimated cost of \$25,000. Improvement of 0.25 miles of Longview Fibre road will cost about \$10,000

The area is 80 percent cable logging, and 20 percent ground based operation.

Total Project costs are \$41,000

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction			0.1	
Improvement			0.25	
Maintenance		8.5		
Closure/Vacation				

VII. AQUATIC RESOURCES AND WATER QUALITY:

Several small seasonal and perennial Type N streams exist within and adjacent to the sale boundaries. These waters are tributaries to Clear Creek, which flows into the Nehalem River. The FMP riparian strategies will be applied to all streams.

All haul roads will be surfaced with a crushed rock and maintained in a manner as to avoid negative impacts to water quality. Hauling from November 1 - March 31 may also be monitored and restricted if necessary.

The primary haul route crosses several streams within 500 feet from the confluence of a stream of which contains threatened or endangered fish species (North Fork of Wolf Creek). Appropriate restrictions for hauling will be imposed for this haul route, or an alternative (McGregor Road) haul route taken to avoid occurrence of any negative impacts.

In order to protect water quality during active operations, a variety of methods will be used to prevent sediment from entering live streams. These methods include (but are not limited to) maintaining culverts and other road drainage structures, using sediment control devices in road ditches when necessary, and seasonal restrictions on logging and hauling operations. Culvert installment and replacement in live streams will be conducted between July 1 and September 30. Operations outside of this period will be reviewed with ODFW.

The Upper Nehalem Watershed Analysis will be checked for recommendations that could be applied during this sale.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist (Area Biologist).

Surveys for northern spotted owls were conducted in 2006 due to the presence of potentially suitable spotted owl habitat within and adjacent to the timber sale area. Moose and Squirrel was surveyed for spotted owls three times in 2006 with no responses, and the second year of survey will be completed in 2007. All surveys were/will be conducted in accordance with USFWS protocol.

Surveys for marbled murrelets are not required, due to the absence of potentially suitable habitat within the sale area. The District T&E Coordinator made the determination that the sale area is non-suitable habitat for marbled murrelets. The ODF wildlife biologist for the NW Oregon Area reviewed and approved this determination.

This operation does not involve an activity that is listed in the National Marine Fisheries Service (NMFS) adopted rules under Section 4(d) of the Endangered Species Act. Neither the sale area nor the haul route is in close proximity to a stream with listed fish.

The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations, as well as against local records in the Land Management Classification System (LMCS). No listed plant records were identified within or adjacent to the sale areas.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

There are virtually no steep slopes indicated on the topographic map for this sale. The initial risk assessment by the geotechnical specialist for the sale is low. A field visit by the geotechnical specialist is not expected to be needed, but the geotechnical specialist will be consulted during sale layout if slope stability concerns are encountered (*per Dave Michael, Northwest Oregon Area Geotechnical Specialist*).

X. RECREATION RESOURCES:

This sale is in the area of the forest designated as Non-Motorized by the Tillamook State Forest Comprehensive Recreation Plan (1993). There are no designated recreation facilities in or adjacent to the sale area. Some dispersed camping and hunting does occur in the area; however this sale is not expected to greatly impact these activities.

The lower portion of the sale will have restricted access through Longview Fibre's road system.

XI. CULTURAL RESOURCES:

The sale area and proposed road construction right-of-way were checked against the Tillamook State Forest Cultural Resource Inventory Database (GIS format). No cultural resource records were identified within or adjacent* to the operation areas. If any

significant cultural resources are located during sale preparation, the Public Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

**Adjacent refers to approximately one tree length from an operation area. For the purpose of this screen, a 200 foot buffer around the sale boundary and proposed road construction right-of-way was assessed for cultural resource locations.*

XII. SCENIC RESOURCES:

The sale area is in a landscape of Low Visual Sensitivity (Level 3). No scenic impact is expected.

XIII. OTHER RESOURCE CONSIDERATIONS:

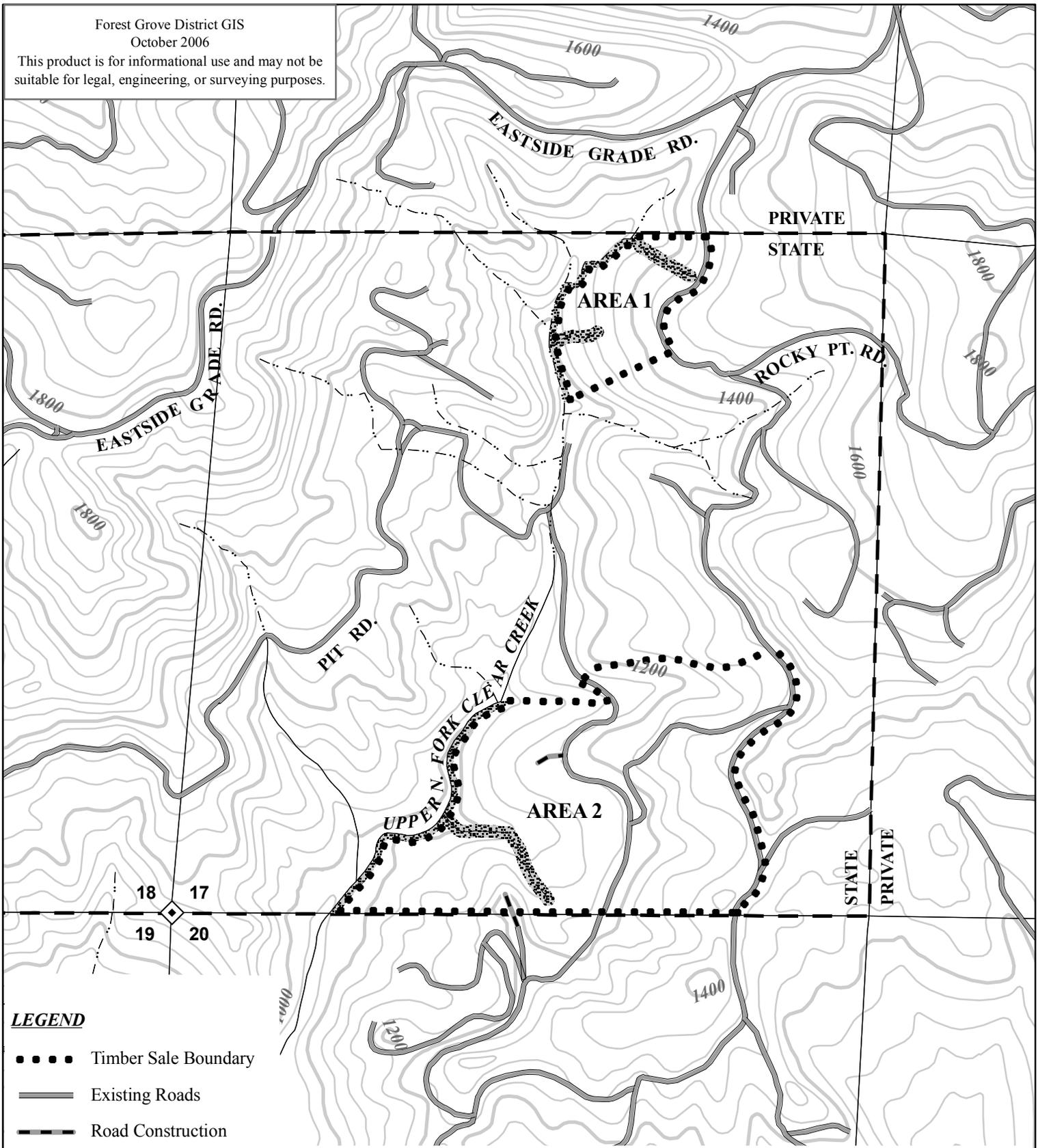
Property lines have been true blazed and posted.

All known survey corners and witness trees shall be protected from damage during any operations.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Areas 1 and 2 contain Focused Stewardship and Special Stewardship, Aquatic and Riparian Habitat Subclass, due to the presence of perennial Type N and Type F streams within the sale areas. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized.

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.



LEGEND

- ● ● Timber Sale Boundary
- Existing Roads
- Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ▒ Stream Buffer
- | | ODF Ownership
- 400' Contour Intervals
- 80' Contour Lines

FY 2008
MOOSE AND SQUIRREL
PORTIONS OF SECTION 17, T04N, R05W, W.M.
COLUMBIA COUNTY, OREGON

Attachment A: Topography

Scale

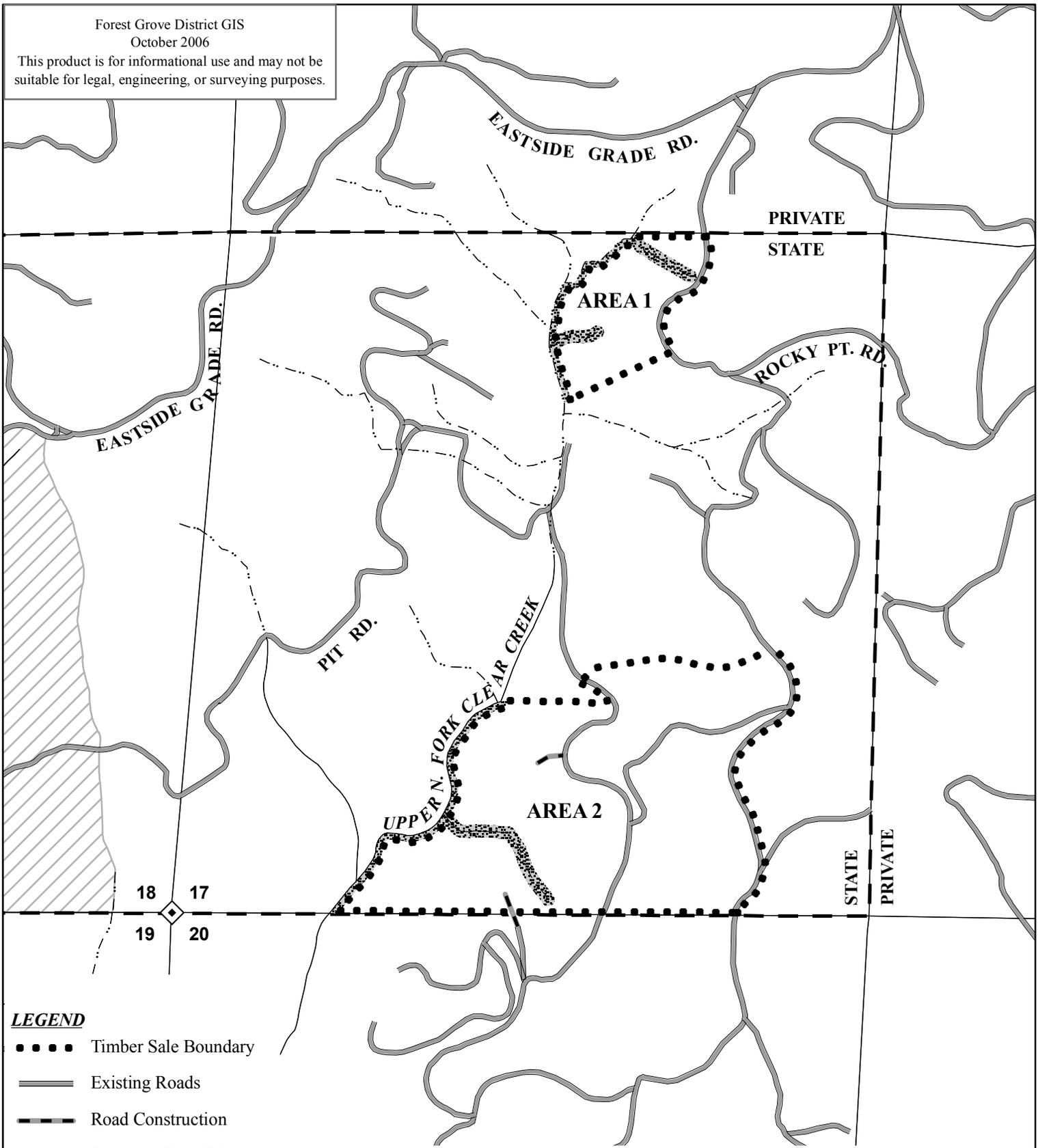
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1 inch = 1000 feet



APPROXIMATE NET ACREAGE	
AREA 1	17 ACRES (MC)
AREA 2	97 ACRES (MC)
TOTAL	114 ACRES

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LEGEND

- Timber Sale Boundary
- Existing Roads
- Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ▨ Stream Buffer
- ▭ ODF Ownership
- DFC Stand Type
- ▭ Layered
- ▨ Older Forest Structure

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MOOSE AND SQUIRREL
PORTIONS OF SECTION 17, T04N, R05W, W.M.
COLUMBIA COUNTY, OREGON

Attachment B: Desired Future Condition

Scale

1:12000

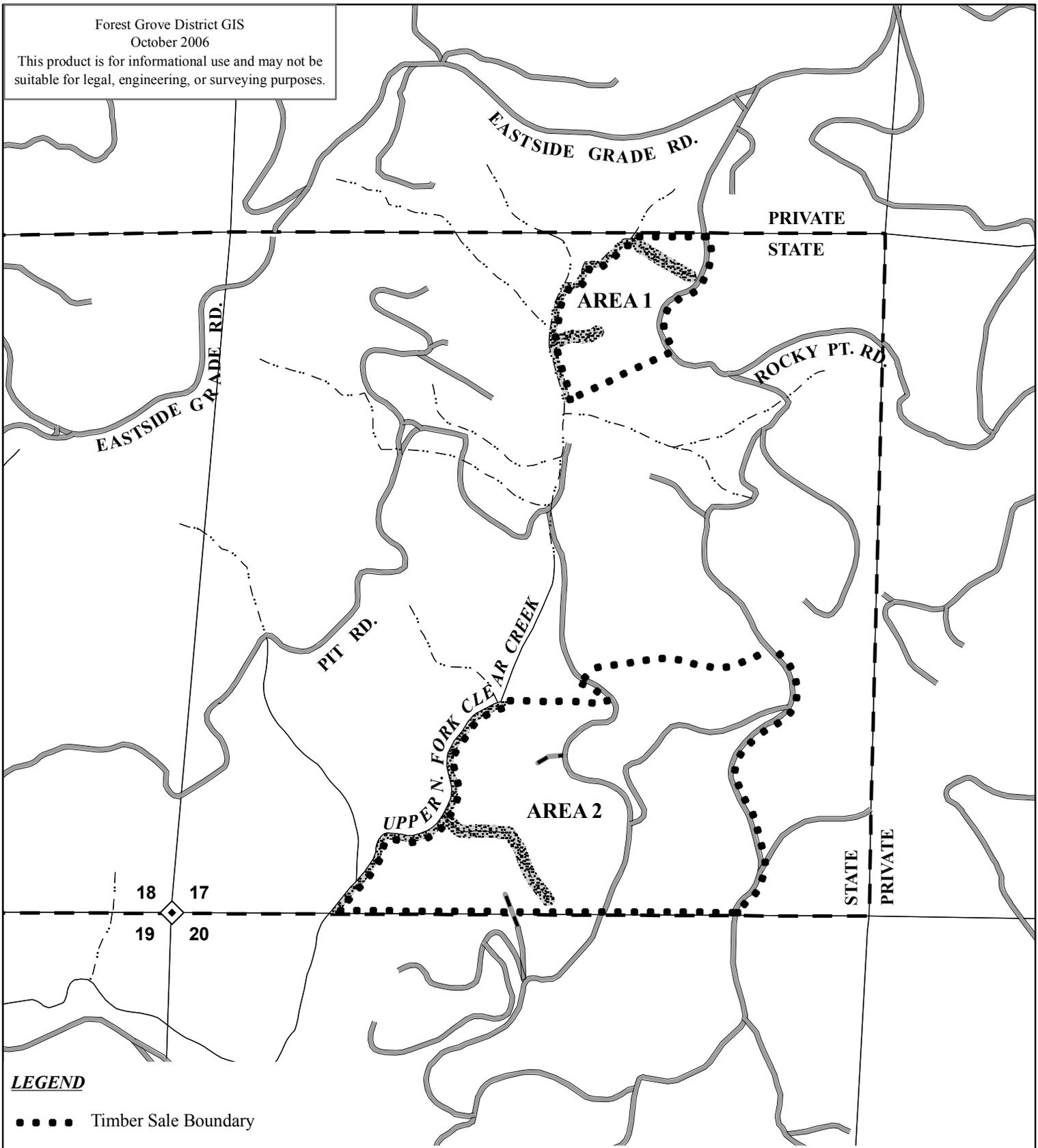
1 inch = 1000 feet



APPROXIMATE NET ACREAGE

AREA 1	17 ACRES (MC)
AREA 2	97 ACRES (MC)
TOTAL	114 ACRES

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LEGEND

- ● ● ● Timber Sale Boundary
- Existing Roads
- Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ▒ Stream Buffer
- | — ODF Ownership

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MOOSE AND SQUIRREL
PORTIONS OF SECTION 17, T04N, R05W, W.M.
COLUMBIA COUNTY, OREGON

Attachment C: Key Resources

Scale

1:12000

1 inch = 1000 feet



N



APPROXIMATE NET ACREAGE

AREA 1	17 ACRES (MC)
AREA 2	97 ACRES (MC)
TOTAL	114 ACRES