

Pre-Operations Report

Operation Name: Sunday Punch
County: Washington
Management Basin: Sunday Creek

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Moderate Partial Cut	288	273
Total	Partial Cut Harvest	288	273

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes have a varied aspect and range from 10% to 60%. Elevations range from 1400 to 2000 feet. The major soil types are Grindstone, Rye, and Killam.

The sale is located on mostly gentle to moderate slopes below a southeast trending spur-ridge off of Grindstone Ridge that divides Sunday Creek and an unnamed tributary to the West. The sale is underlain by igneous origin rock of intrusive Diabase (*per Dave Michael, Northwest Oregon Area Geotechnical Specialist*).

II. CURRENT STAND CONDITION:

The sale area burned in the 1933, 1939, and 1945 Tillamook Burns. It was then seeded in the early 1950's and again in the mid 1950's. The sale area has had no other management.

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

The stand is composed almost entirely of overstocked Douglas-fir.

The stand contains minor amounts of *Phellinus weirii* that will not be treated at time of harvest.

The understory is comprised primarily of vine maple, dwarf Oregon grape, sword fern, and salal.

The number of snags ranges from 5 to 23 per acre in all states of decay in the sale area.

There is approximately 8,900 ft³ in stand 8060, 4,800 ft³ in stand 8070 and 3,000 ft³ in stand 8079 of DWD in decay classes 3 and 4 in the sale area.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age ²	DBH	BA	TPA	SDI	Net Acres ³
1	PC-M ⁴	8060	DF	30-38	16	213	153	54	60
		8070	DF	39-52	14	238	210	63	199
		8079	DF, RA	37-49	15	194	155	50	14
		<i>Target</i> ⁵	<i>DF</i>	<i>52-61</i>	<i>17</i>	<i>140</i>	<i>79</i>	<i>33</i>	<i>273</i>

¹ The source of stand inventory information is from SLI completed in or 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 non-thinnable areas.

⁴ PC-M is Moderate Partial Cut.

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:

The harvest operation will continue the stand’s development as UDS structure in the short term. According to the Forest Grove District’s landscape design for the Sunday Creek basin, the desired future condition (DFC) for the sale area is 95% LYR and 5% OFS.

All existing snags and down woody debris of all decay classes shall be retained where safety allows. Hardwoods and all conifer species other than Douglas-fir shall be reserved from harvest. All of these components combined will maintain and promote biodiversity within the future stand.

The ground vegetation across the sale area will be dominated by salal, dwarf Oregon grape, sword fern, and vine maple. Leave trees (mostly Douglas-fir), snags and DWD components will be consistent with FMP strategies.

In portions of Area 1 with a DFC-OFS, management begins by thinning the overstory. A well established understory will be created with the opening of the canopy after thinning. The goal is to allow for trees to grow larger and to develop good height to diameter ratios for 15-20 years or until next entry. Later another entry may be prudent to keep the stand on its path to OFS. An entry at this time will maintain a healthy understory and the continued vigor of the overstory. Underplanting may be necessary at this time.

The vision is to develop a mixed conifer understory which contributes to the layering characteristic associated with complex structures.

Table 3. Stand Structure Information

Area	Prescription	Stand ID	Current	Post Harvest ¹	Desired Future	Net Acres
1	PC-M	8060	UDS	UDS	LYR	60
		8070	UDS	UDS	LYR	199
		8079	UDS	UDS	OFS	14

¹ The stand is expected to develop into this condition in the five to ten years after this operation is completed, except in REG stands which occur after harvest.

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

Partial Cut - Moderate:

Area 1 is PC- M. The target SDI is approximately 33.

Douglas-fir will be selected for harvest. All other species will be reserved. The stand will be thinned to a target basal area of 140 square feet. The average DBH of the residual stand will be approximately 18 inches. Residual trees will be the trees that have the largest DBH, and are of the best form and vigor. All trees less than 8 inches shall not count toward the target basal area.

All existing DWD will be reserved in the sale areas. DWD recruitment is expected through mortality, windthrow of residual trees, felled snags, and logging slash.

Existing snags determined not to be a safety hazard will be retained and any felled snags will be left for down wood. Additional snags will be created over time through natural processes. Tree topping will be required at one snag per acre. The residual stand will be monitored for natural snag creation.

We will continue the development of UDS structure in the short term by thinning the stand to an SDI 20 leaving approximately 80 trees per acre. All trees less than 8 inches, grand fir, western red cedar, and hardwoods shall be retained. This prescription will provide more light and nutrients to promote increased diameter growth of the residual trees and continued vigor of the understory. Understory development will be maintained promoting multiple stand layers, biological diversity, and future OFS.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		<input checked="" type="checkbox"/>
Planned Quarter:		3	

	Conifer	Hardwood	Total
Net Volume (MBF)	3,600		3,600
Stumpage Value (\$/MBF)	\$350		
Estimated Gross Value	\$1,260,000		\$1,260,000
		Project Costs:	\$259,000
		Estimated Net Value:	\$1,001,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to the sale area is from the town of Yamhill to Pike Road to the Turner Creek mainline to the North Fork of the Trask River Road. Access is through several miles of Weyerhaeuser owned land and some BLM owned land. There are two Weyerhaeuser gates which have to be passed through in route to the timber sale area. ODF has an easement with Weyerhaeuser, such that no fees will have to be paid for hauling.

Approximately 5.2 miles of existing surfaced and unsurfaced road will be improved which includes grading, rocking, widening, culvert replacement, spot rocking, sidecast pullback, and adding new culverts at a cost of \$208,000. This work will bring all roads up to standards described in the Forest Roads Manual. Approximately 0.5 miles of new road will be constructed to provide access to landing locations at a cost of \$30,000.

New construction is limited to ridge tops and gentle to moderate side slopes.

Approximately 3,000 cubic yards of 3'-0 will be crushed and stockpiled for future timber sales and road maintenance at a cost of \$21,000.

All haul roads will have high quality crushed rock or pit run surfacing. Roads will provide access to all timber within the sale area and allow for logging methods and hauling which will minimize impacts to soils, residual timber, streams, and riparian areas. There will be no culvert crossings on type F streams or type N streams.

Following harvest on each setting during logging operations, roads and skid trails within the sale areas will be evaluated for closure.

Total project work estimated cost is \$259,000.

The operation will be 60% cable yarding and 40% ground yarding.

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction			0.5	
Improvement		5.2		
Maintenance	4.5 ¹	16.0	0.5	
Closure/Vacation				

¹Includes third party roads.

VII. AQUATIC RESOURCES AND WATER QUALITY:

Riparian areas are hardwood/conifer mixed.

There are three known type N perennial streams within the sale area and all flow into Sunday Creek. Stream buffers within harvest unit boundaries will be managed according to FMP Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

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.

VIII. T&E SPECIES CONSIDERATIONS:

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

Spotted owl surveys are not required for Sunday Punch, as the sale area is within the Tillamook Burn (see November 2002 ODF Policy Guidance: *Northern Spotted Owl Surveying on State Forest Lands*).

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 involves an activity that is listed in the National Marine Fisheries Service (NMFS) adopted rules under Section 4(d) of the Endangered Species

Act. The haul route crosses or is in close proximity to a stream with listed fish. See Section VII and IX of this report for a discussion of protective measures.

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 steep slopes along both sides of a fork of the unnamed tributary in the west portion of the sale area and a few scattered steep slopes throughout the rest of the sale. The initial risk assessment by the geotechnical specialist for the sale is low except for these slopes in the West portion of the sale area. If these steep slopes remain within the sale area as the sale layout proceeds, the geotechnical specialist will be consulted to determine if a field visit is needed (*per Dave Michael, Northwest Oregon Area Geotechnical Specialist*).

X. RECREATION RESOURCES:

The sale area is designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The area is accessed through private industrial forest land. Public access is prohibited. There are no anticipated impacts to recreation resources.

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 has a visual classification of Level 3, low sensitivity.

XIII. OTHER RESOURCE CONSIDERATIONS:

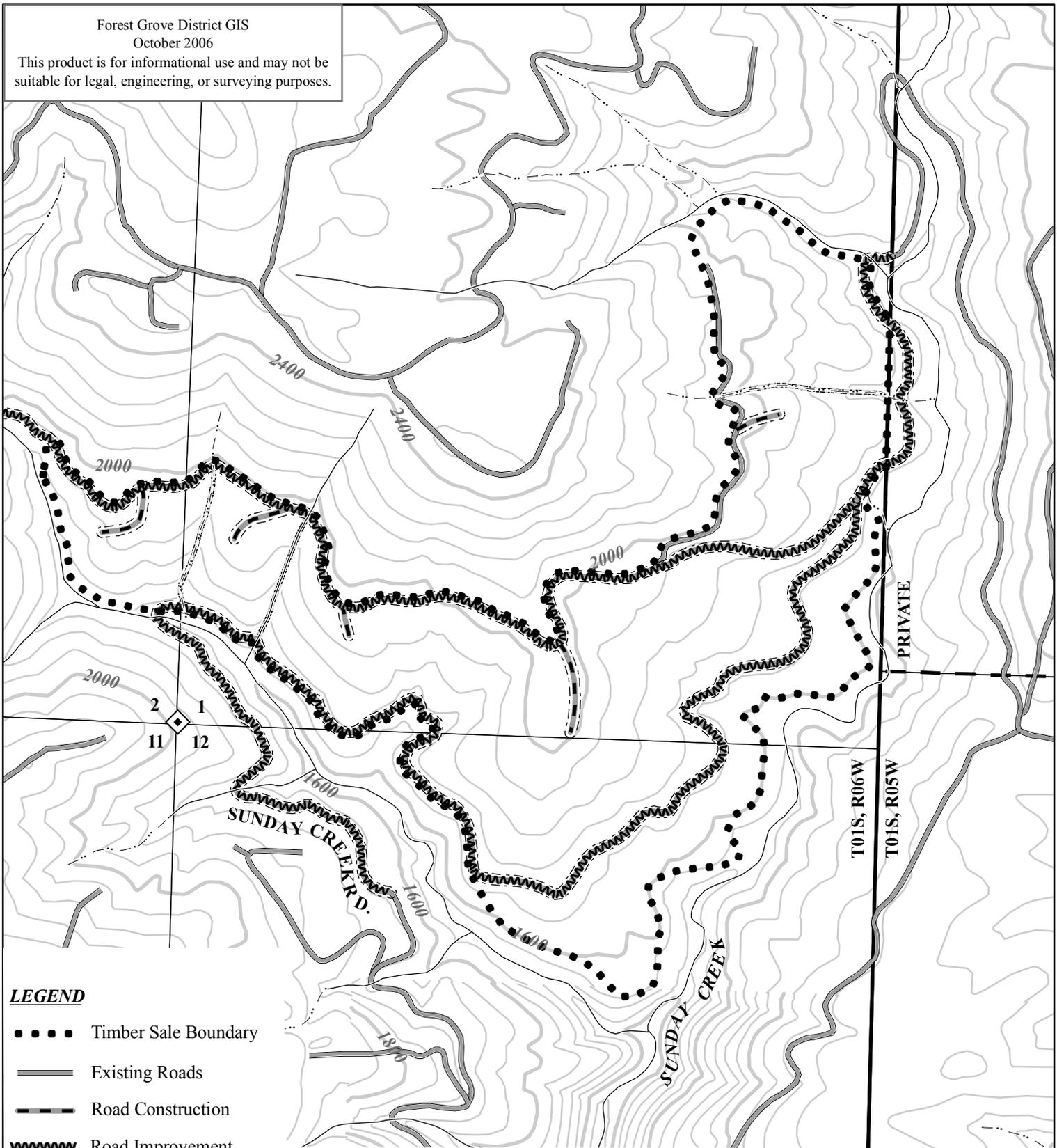
Property lines have been true blazed and posted.

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

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

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

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LEGEND

- ● ● ● Timber Sale Boundary
- Existing Roads
- - - Road Construction
- ~~~~~ Road Improvement
- - - - Road Construction Right-of-Way
- Perennial Type F Stream
- - - Perennial Type N Stream
- ▒ Stream Buffer
- 400' Contour Intervals
- 80' Contour Lines

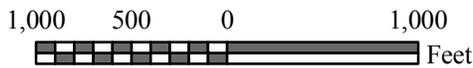
FY 2008
SUNDAY PUNCH
PORTIONS OF SECTION 1, 2, & 12, T01S, R06W, W.M.
WASHINGTON COUNTY, OREGON

Attachment A: Topography

Scale

1:12000

1 inch = 1000 feet

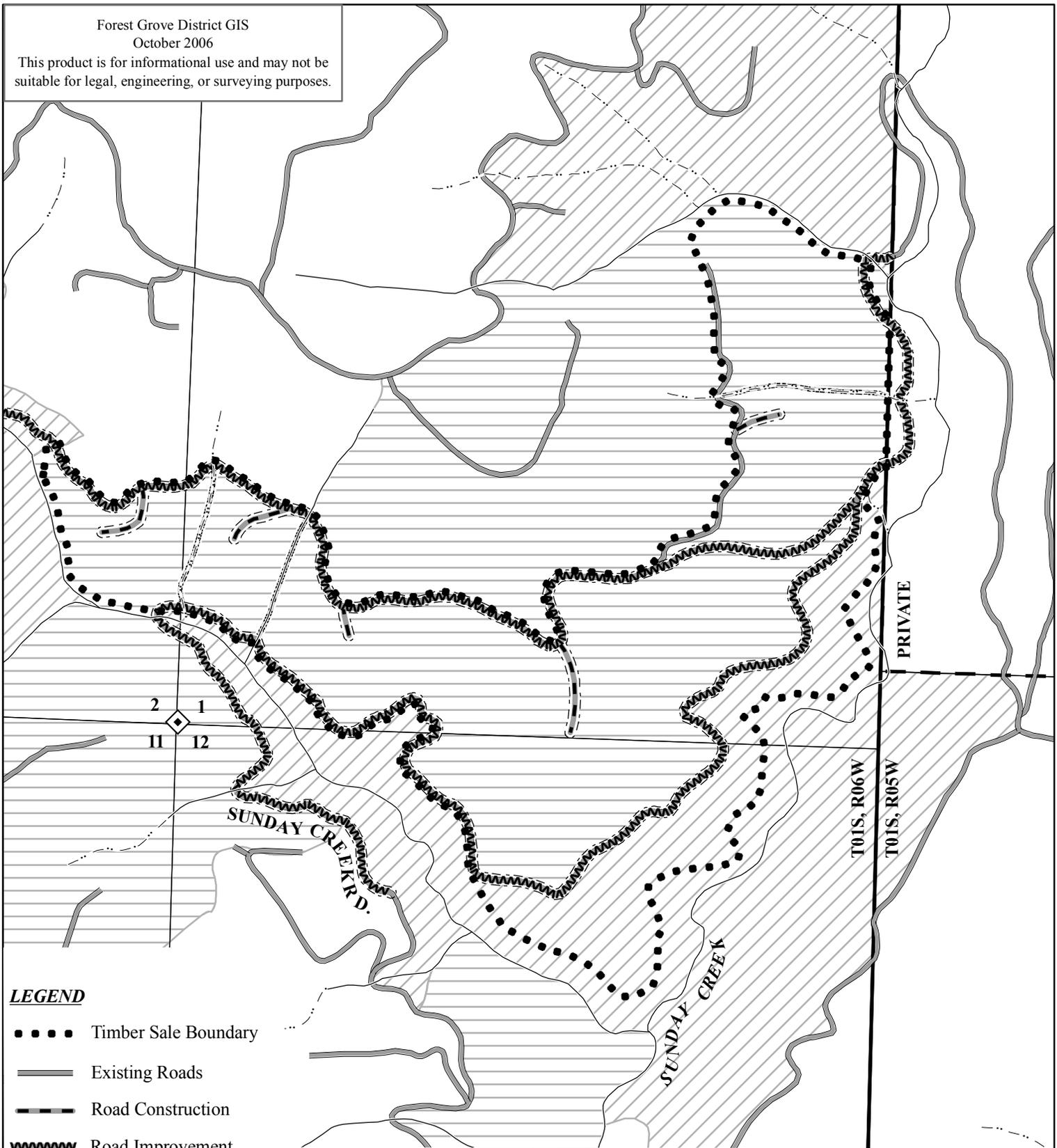


APPROXIMATE NET ACREAGE

AREA 1 273 ACRES (PC-M)

TOTAL 273 ACRES

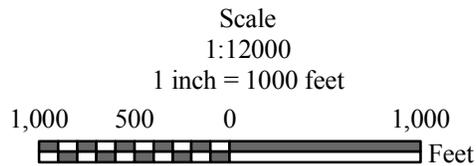
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LEGEND

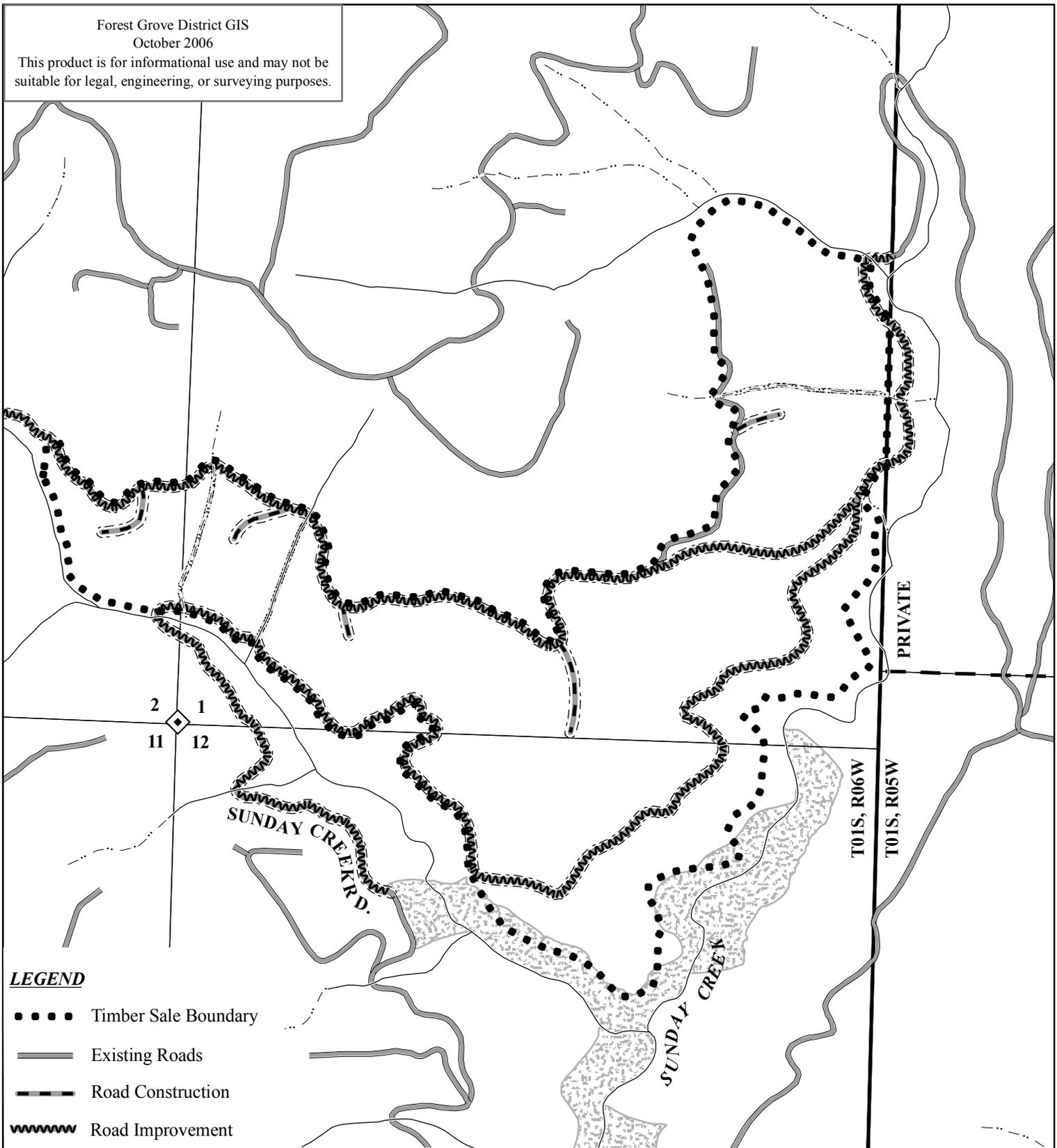
- ● ● ● Timber Sale Boundary
- Existing Roads
- Road Construction
- ~~~~~ Road Improvement
- - - - Road Construction Right-of-Way
- Perennial Type F Stream
- - - - Perennial Type N Stream
- ▒ Stream Buffer
- DFC Stand Type
- ▭ Layered
- ▨ Older Forest Structure

FY 2008
SUNDAY PUNCH
PORTIONS OF SECTION 1, 2, & 12, T01S, R06W, W.M.
WASHINGTON COUNTY, OREGON
Attachment B: Desired Future Condition



APPROXIMATE NET ACREAGE	
AREA 1	273 ACRES (PC-M)
TOTAL	273 ACRES

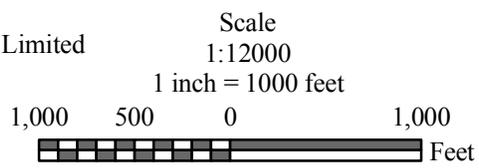
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LEGEND

- Timber Sale Boundary
- Existing Roads
- Road Construction
- ~~~~~ Road Improvement
- - - - Road Construction Right-of-Way
- Perennial Type F Stream
- - - - Perennial Type N Stream
- ▒ Stream Buffer
- ▒ Special Stewardship - Operationally Limited

FY 2008
SUNDAY PUNCH
PORTIONS OF SECTION 1, 2, & 12, T01S, R06W, W.M.
WASHINGTON COUNTY, OREGON
Attachment C: Key Resources
(Special Stewardship - Operationally Limited)



APPROXIMATE NET ACREAGE	
AREA 1	273 ACRES (PC-M)
TOTAL	273 ACRES