

Pre-Operations Report

Operation Name: Evans Mountain (Alternate)

County: Marion

Management Basin: Scattered

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
	MC	68	61
Total		68	61

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The operation is located within a temperate climate area. Typically the fall and winter seasons are wet. This area receives approximately 70 to 95 inches of rainfall per year. The operation is located within the *Tsuga heterophylla* Zone (*Natural Vegetation of Oregon and Washington, Franklin & Dyrness, 1973*).

The sale is located on very gentle slopes above Elkhorn below Evans Mountain just east of Evans Creek. The sale is underlain by sedimentary and igneous origin rocks, flows, Breccias, Tuffs and Lahar Deposits, mapped as "Undifferentiated tuffaceous sedimentary rock, tuffs and basalt.

The soil within the operation is classified as Nasty soils. Nasty soils are moderately deep, well-drained, moderately fine-textured skeletal soil. The 50 year site index for Douglas-fir and western hemlock is 100 feet. (*Soil Survey of the Cascade Unit, Miller and Steinbrenner, 1980*) The elevation of the operation ranges from 1,280 to 1,520 feet. The slopes within the operation range from 0 to 35%.

II. CURRENT STAND CONDITION:

There are three stands within the operation that are 70 years old and are currently classified as Understory. The stands in this operation have not been managed. As a result, the trees have very small crowns and are putting on minimal growth each year. The overstory consists mainly of Douglas-fir. Vine maple, hazel, salal, ocean spray, huckleberry and ferns occupy the understory. There are approximately 4 snags per acre; minimal sound down wood; and

approximately 1,000 cubic feet per acre of down wood in all decay classes. (SLI, 2002)

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
	MC	12024	DF	70	14	191	171	50	27
	MC	12370	CXDF	70	14	135	117	35	7
	MC	12371	DF	70	14	168	160	45	34

1 The source of stand inventory information is SLI from 2002.

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

III. DESIRED STAND CONDITION:

This operation is located in the Scattered Basin. This basin is a diverse mixture of ownership, stand ages, species mixtures, and site quality. As indicated by its name, the Scattered Basin is a conglomeration of scattered ODF ownership parcels that range in size from 40 acres to 1000 acres. The operation is located within a parcel which is approximately 80 acres in size. Most of the smaller parcels within the basin are viewed as land exchange candidates due to the intermingled nature of the ownership. The Evans Creek operation is a land exchange candidate.

The desired future condition for the stands within this operation is for non-complex stands. (*Cascade District Implementation Plan, 2003*) The lack of prior thinnings to the stand has resulted in the stand stagnating about 12 years ago. The residual stand most likely would not respond to the thinning due in part to severely reduced crowns. A moderate clearcut will leave some of the structure as well as the ability to make the stand productive.

The **Anticipated Pathway** begins with a:

- Modified Clearcut leaving 5 to 7 green trees per acre.
- The unit will be replanted with mix of mostly Douglas-fir and some western red cedar upon completion of site preparation activities.
- In 10-12 years, the stand will be evaluated for a pre-commercial thinning.
- A first entry commercial thinning will take place at about 40 years of age.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
	12024	UDS	REG	GEN	27
	12370	UDS	REG	GEN	7
	12371	UDS	REG	GEN	34

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:

This operation is a Modified Clearcut. Approximately 7 green trees per acre will be retained. Some of these trees will be located along riparian areas and wet areas (the GTR shown on the attached maps). The rest of the trees will be located in clumps around the unit. Snags will be retained as safety permits. At the end of the operation a minimum of 2 snags per acre on average will remain, even if these snags have to be created to replace snags cut for safety reasons. Approximately 600 cubic feet of sound down wood will be added to the stand.

The slash resulting from the harvest operation will be piled and burned. Following the site preparation, the unit will be replanted with a mixture of Douglas-fir and western red cedar seedlings.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	1,170	50	1,220
Stumpage Value (\$/MBF)	\$250	\$150	
Estimated Gross Value	\$292,500	\$7,500	\$300,000
		Project Costs:	\$10,000
		Estimated Net Value:	\$290,000

VI. TRANSPORTATION PLANNING AND HARVESTING:

Access to the sale area will be via the paved Little North Fork road and Evans Mtn. road. A use permit for the Evans Mtn. road will need to be secured from the BLM for log hauling. No new construction will be required for this sale. One old road grade may be re-opened in the NE ¼ of the unit if the purchaser chooses. Minor improvements to un-named spurs in the unit will be completed to allow use of those roads. The entire sale is on relatively flat ground and can be ground yarded to existing roads in and around this small area.

Project work summary

- Minor road improvements on two spurs in the sale area, (brushing & grading)
- Road Brushing on other isolated tracts of ODF land will be investigated for this sale.

Table 5. Transportation Planning Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0	0
Improve	0	0	0	0
Maintain	0	0	0	.75
Close/Block	0	0	0	0
Vacate	0	0	0	0

*For determination of road class either use results of the Harvest and Habitat roads classifications, or if this information is not available then low use roads are spurs, medium use roads are collectors and high use roads are mainlines. Use these same criteria when comparing the total for all AOP sales to the IP plans.

VII. AQUATIC RESOURCES AND WATER QUALITY:

There are three small streams located within the operation. Two of these streams have been surveyed as non-fish bearing streams. The habitat for fish is present in these streams, but two waterfalls below the Little North Fork Road block fish passage. The other stream has not been surveyed. This stream will be surveyed for beneficial use (i.e. fish bearing or not) during the 2007 survey season. All of these streams flow into the Little North Fork of the Santiam River.

Management activities within riparian areas of these streams will focus on achieving properly functioning aquatic and riparian habitat conditions over time. Riparian Management Areas (RMAs) will be established immediately adjacent to streams for the purpose of protecting aquatic and riparian resources and maintaining the functions and ecological processes of the streams. The

Management Standards for Aquatic and Riparian Areas found in the *NWO State Forests Management Plan* (pg. J-1 – J-16) will be followed within these RMAs.

The following measures will be used to minimize impacts to streams: 1. No ground based equipment will be allowed within 50 feet of any fish stream and 25 feet of any non-fish bearing streams, 2. There will be seasonal restrictions as to when ground yarding and road construction will be allowed (i.e. during dry seasons), 3. Erosion control measures will be used on areas of soils exposed during road construction or improvement, 4. In the cable portions of the operation, one end suspension of logs during yarding will be required, 5. Road ditches will be disconnected from streams, 6. Road maintenance will be required during log hauling.

VIII. T&E SPECIES CONSIDERATIONS:

This operation was surveyed for Northern Spotted Owls during the 2006 survey seasons. There was one response from an owl that was considered a “floater”. The operation will be surveyed again during the 2007 survey season.

The operation area was checked against District knowledge for any listed plant location. The operation area was also checked against the Oregon Natural Heritage Program’s database of known listed plant locations. No listed plant records were identified within the operation area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

The initial risk assessment by the geotechnical specialist for the sale is low for risks of landslides. A Field visit by the geotechnical specialist is not expected to be needed, but the geotechnical specialist will be consulted during sale layout if any slope stability concerns are encountered.

X. RECREATION RESOURCES:

There are no developed recreation resources within the operation. The county road that travels through the operation is the access road to the USFS Opal Creek Recreation Area. The access to this recreation site will remain open during the operation.

XI. CULTURAL RESOURCES:

Pre-operation reconnaissance revealed no visible cultural resource features or artifacts. If discovery is made, the cultural resource will be protected and field staff will consult with the Cultural Resource Specialist in Salem.

XII. SCENIC RESOURCES:

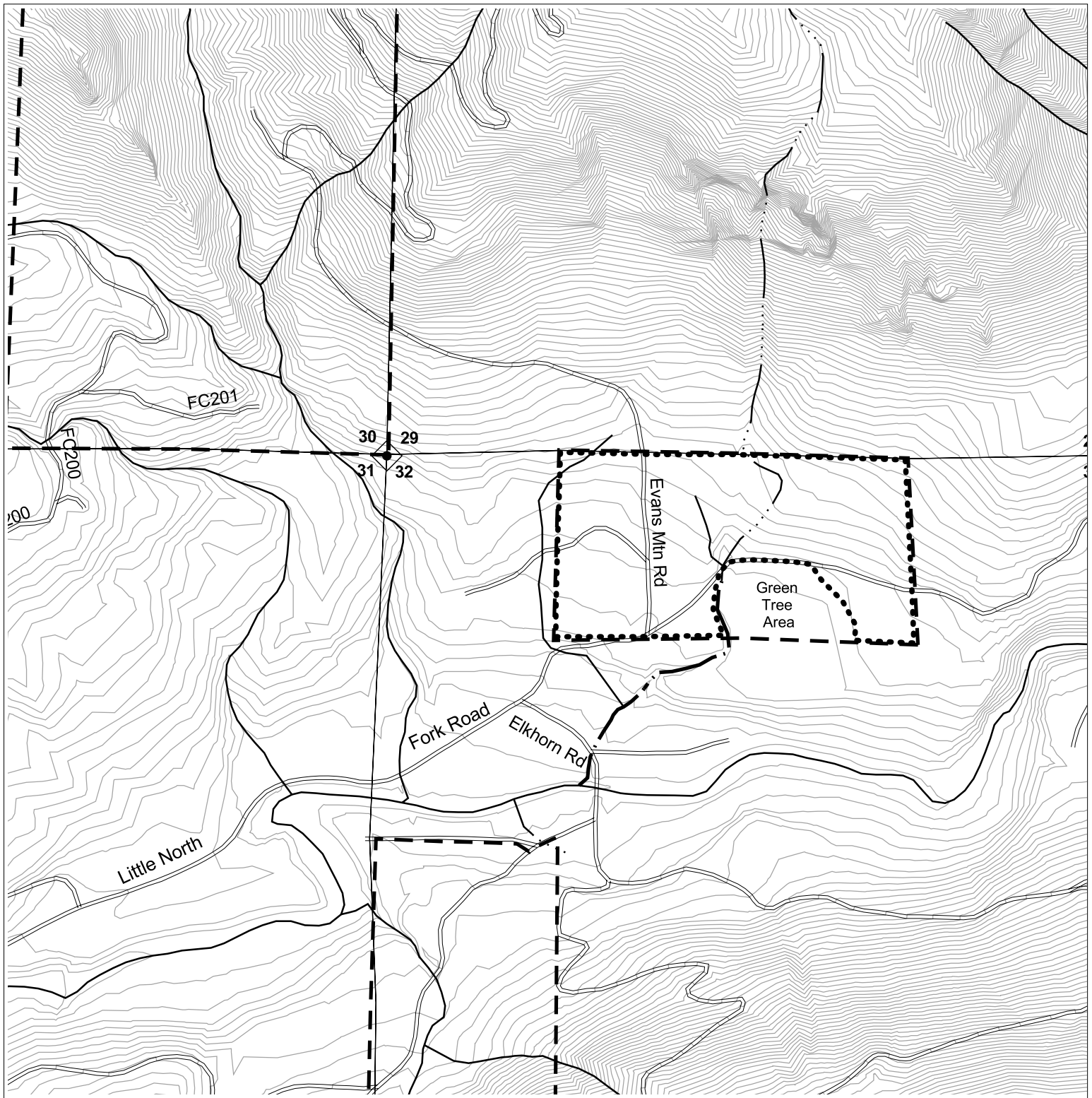
As mentioned above, the access road to the USFS Opal Creek Recreation Area runs through this operation. The clumps of green trees will be placed in locations that will help break up the visual aspects of this modified clearcut. Also, the riparian area buffers on the streams will help to break up the openness of the clearcut.

XIII. OTHER RESOURCE CONSIDERATIONS:

To protect air quality, the pile burning will comply with the Oregon Smoke Management Plan. The Smoke Management Plan is designed to reduce emissions from prescribed burning in western Oregon and to minimize smoke intrusions into designated population areas.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The operation contains Focused Stewardship, Aquatic and Riparian Habitat for three small streams. See Section VII, Aquatic Resources and Water Quality for the management guidelines to be utilized.



EVANS MOUNTAIN (Alt)
--TOPOGRAPHY--
FY '08 SALE PLAN
NORTH CASCADE DISTRICT

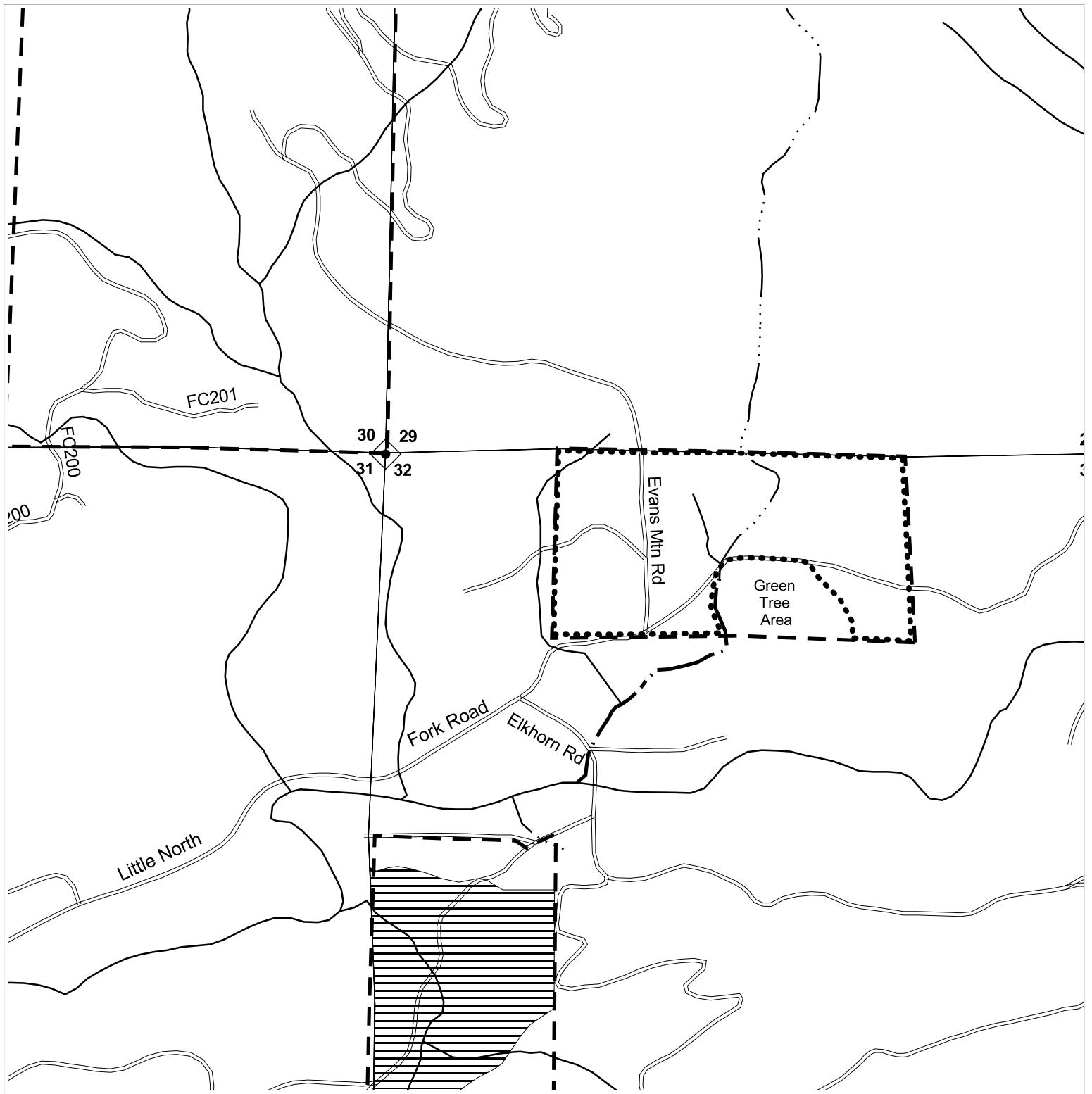
Portions of Section 32
 T8S, R4E W. M.
 Marion County, OR

Approximate Net Acreage:
 MC 61

- State Forest Boundary
- Roads
- Streams
- FISH
- NONFISH
- UNKNOWN
- Evans Mountain
- 20 foot contours













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EVANS MOUNTAIN (Alt)
--DESIRED FUTURE CONDITION--
FY '08 SALE PLAN
NORTH CASCADE DISTRICT

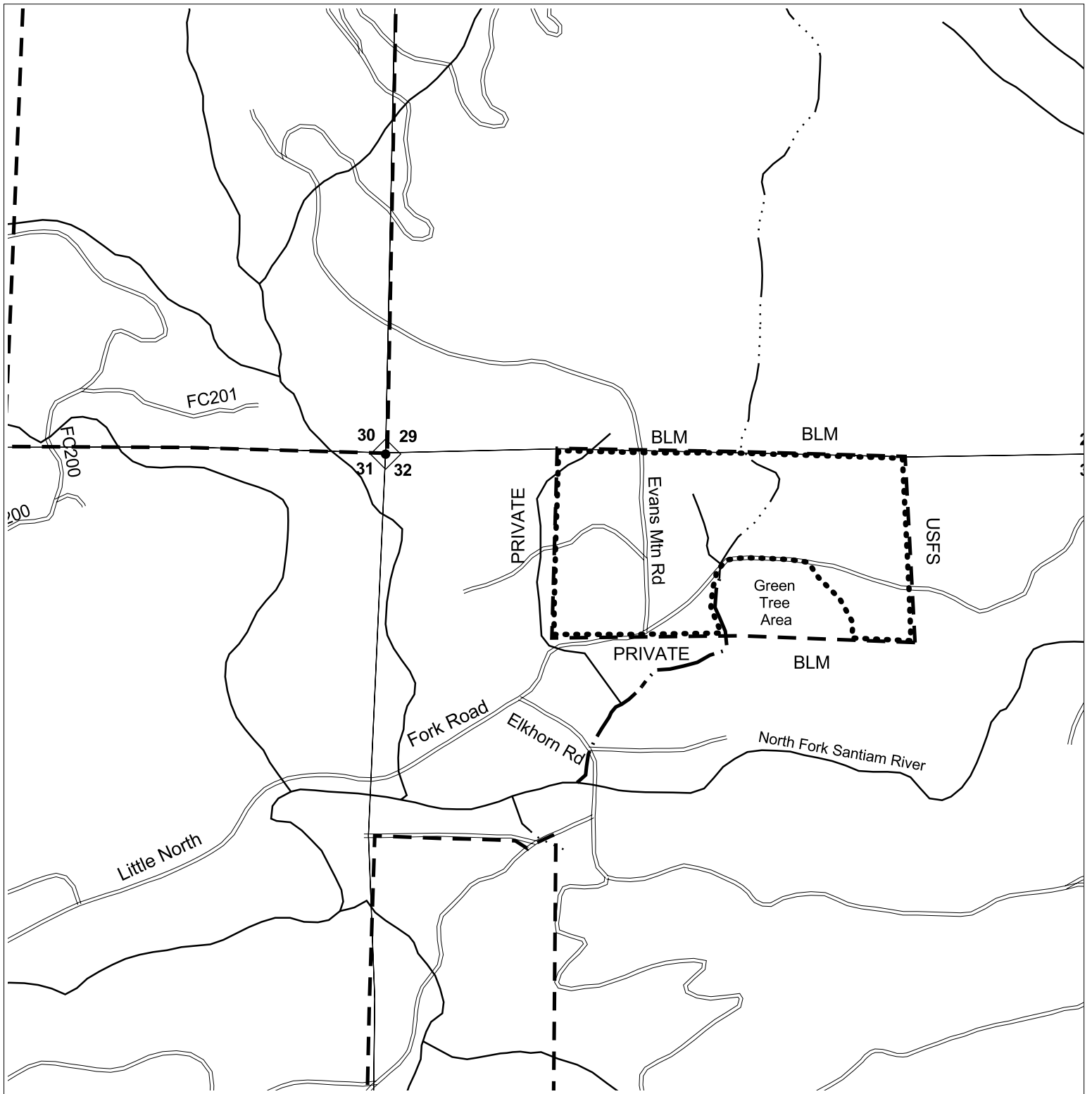
Portions of Section 32
 T8S, R4E W. M.
 Marion County, OR

Approximate Net Acreage:
 MC 61

-  State Forest Boundary
-  Roads
-  Streams
-  FISH
-  NONFISH
-  UNKNOWN
-  Evans Mountain
-  Desired Future Condition
-  LYR
-  OFS



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EVANS MOUNTAIN (Alt)
--KEY RESOURCES--
FY '08 SALE PLAN
NORTH CASCADE DISTRICT

Portions of Section 32
 T8S, R4E W. M.
 Marion County, OR

Approximate Net Acreage:
 MC 61

-  State Forest Boundary
-  Roads
-  Streams
-  FISH
-  NONFISH
-  UNKNOWN
-  Evans Mountain



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