

Pre-Operations Report

Operation Name: Green Lantern
County: Clatsop
Management Basin: Buster

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	MC	74	67
2	MC	54	48
3	MC	100	93
Total	Modified Clearcut	228	208

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

These sale areas are all located in the Buster Basin. This area is dominated by Douglas-fir, with some western hemlock and red alder. The soil types present are primarily Jewell (Jw), Humbug (Hc), and Grindstone (Gz) soils. These soils are deep, well-drained colluvial soils. Site index averages from 120 (II -) to 110 (III +) feet for the Douglas-fir, and 100 feet for the western hemlock. The landform is gentle ridgeline divide between Selders Creek and Ginger Creek. The underlying rock unit is igneous origin Tillamook Volcanics, basalt and andesite flows. The harvest units are located on mostly moderate slopes on a west facing aspect.

II. CURRENT STAND CONDITION:

Area 1 - This area consists of 51 year old Douglas-fir, western hemlock, and few scattered true fir and red alder. This stand is classified as Understory Development (UDS) with a Site Index of 80 to 90.

Areas 2 and 3 - Consists of 43 year old Douglas-fir, western hemlock, few scattered noble fir and red alder. This stand is classified as UDS with a Site Index of 90 to 100.

Understory development consists primarily of sword fern, vinemaple, huckleberry, and salmonberry and scattered pockets of advanced western hemlock regeneration.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
1	MC	24486	DF	52	17	398	257	99	67
		Target ³							67
2	MC	24102	DF	44	15	348	228	87	48
		Target 3							48
3	MC	24102	DF	44	15	348	228	87	93
		Target ³							93

1 The source of stand inventory information is SLI. Age shown is as of 2007.

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 SDI) after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

All sale areas have been placed into the General category for their desired future condition to be managed for healthy vigorous stands of mixed conifer.

These areas will be regeneration harvested and planted with a mixture of conifer species. Five to seven conifer trees per acre will be left to provide a source for natural regeneration and future downed wood and snags. A pre-commercial thinning is anticipated at 12 to 17 years when crowns close followed by a commercial thinning at 30 to 40 years of age to ensure continued growth. At age 45 to 50 the stand will be evaluated for either additional thinning or regeneration harvest.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	24486	UDS	REGEN	GENERAL	67
2	24102	UDS	REGEN	GENERAL	48
3	24102	UDS	REGEN	GENERAL	93

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:

Area 1, 2, and 3 - These areas are modified clearcuts that will be replanted with a mixture of conifer species. Minor species found will be reserved from cutting as will submerhcantable conifer.

Snags: During all harvesting activities, all existing snags will be retained unless deemed to be safety hazards. Where fewer than two hard snags per acre are found to exist during sale layout, opportunities for snag creation or leaving additional live green trees will be implemented to supplement landscape snag levels (FMP, "Landscape Management Strategy 3c. Snags", pages 4-53 and 4-54).

Green Trees: An average of five to seven trees per acre will be scattered and/or clumped throughout the areas. A combination of methods will be implemented to achieve the green tree retention requirements such as clumping and scattering them in the uplands and placing some within stream buffers and outer RMA areas. In addition, individual and small clumps of non-merchantable trees will be left in operationally feasible areas. In all sale areas minor species such as red cedar will be reserved from cutting, and any existing larger remnant trees will be reserved from cutting.

Down Wood: For all harvesting activities, all existing down woody debris will be retained. Down woody debris levels will be assessed and if deficiencies are found to exist on an individual unit, then additional conifer trees and/or conifer logs will be retained to meet the landscape targets for down woody debris as prescribed in the FMP (FMP, "Landscape Management Strategy 3d. Down Wood." pages 4-54 and 4-55)."

Site preparation will be provided by cable and ground based harvesting. Planting will be at 300 trees per acre with the following mixture: 40% Douglas-fir, 55% western hemlock, and 5% western red cedar. Animal damage to seedlings is anticipated to be heavy. Paper bud caps will be installed on Douglas-fir and tubes on the western red cedar at the time of initial planting. Consideration for some natural regeneration may be an option of young stand establishment. Some slash and debris manipulation maybe required. The site will be reviewed upon completion of harvesting operations for site prep needs.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%	<input type="checkbox"/>	4
Planned Quarter:		2 nd	

	Conifer	Hardwood	Total
Net Volume (MBF)	9,500	0	9,500
Stumpage Value (\$/MBF)	\$275	\$400	
Estimated Gross Value	\$2,612,500	0	\$2,612,500
		Project Costs:	\$286,000
		Estimated Net Value:	\$2,326,500

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to the harvest sites will be from State owned land to the west of the sale. Approximately 1.8 miles of new road construction will be required. This construction accesses a dominant ridge and will be used to access other harvest

units in the future. Because of this these roads will be rocked. The haul route will be from the sale areas on Green Mountain spurs to Stanley Creek Road to Wage Road and out to Highway 202. Approximately 2.5 miles of existing spur roads will receive a surface lift or patch rock to improve conditions for hauling. Road improvement will also be done on 2.5 miles of the haul route, (Green Mountain Road to Wage Road). In addition, roadside brushing will be done within the basin to maintain visibility required for safe hauling conditions.

Rock crushing will be done at the Green Mountain No. 2 Quarry as project work within this sale.

Area 1 is predominately cable ground and Area 2 is mostly tractor ground. Area 3 will likely be harvest with a mix of ground based and cable based harvesting systems.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	1.8	0.0
Improve	2.5	2.5	0.0	0.0
Maintain	0.0	1.8	0.0	0.0
Close/Block	0.0	0.0	0.0	0.0
Vacate	0.0	0.0	0.0	0.0

VII. AQUATIC RESOURCES AND WATER QUALITY:

Type F and Domestic Use Streams: There are Type F streams located to the north and south of Area 3 and the north of Area 1. There are no known Type F streams located within the sale areas.

Type N Streams: There are perennial Type N streams located within the sale areas.

This sale does not contain any streams with federally listed fish species.

Aquatic Resource Protection: For all areas, full log suspension is required when cable yarding over streams. No ground-based logging equipment operation is allowed within the stream bank zone. No stream crossings are anticipated during road construction. To protect water quality during active operations, a variety of methods will be used to prevent sediment from entering live streams. These methods range from use of hay bales in road ditches, to “ditch-outs” away from streams, to complete shutdown of logging and hauling.

All streams will be examined to determine stream type and classification during sale layout, and then the specific riparian management area strategies required in the FMP will be implemented. Stream type and classification will be done using the most recently completed stream survey information and newly adopted FPA rules where appropriate. The FMP riparian management area strategies that will be implemented are found in the FMP, Appendix J, "Management Standards for Aquatic and Riparian Areas", pages J-1 through J-16.

If any in-stream work is done with this sale, it will all be conducted during in-stream work periods established by ODFW.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

All sale areas were surveyed to protocol for northern spotted owls in 2007 with no responses and will be surveyed again in 2008.

The ODF Northwest Area Biologist determined that none of the sale areas contained suitable habitat for Marbled Murrelets.

The sale area was checked against district knowledge for any listed plant location. The sale area was also checked against the Oregon Natural Heritage Program (OHNP) database of known listed plant locations. No listed plant records were identified within the sale 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 no high landslide hazard locations in Areas 1 and 2 and there are a few isolated high landslide hazard locations in Area 3. Area I drains into Selders Creek. Area II drains into Weed Creek. Area III drains into Ginger Creek. The risk of landslides delivering directly to any of these streams from the sale area is low. The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

X. RECREATION RESOURCES:

This area receives little use, most likely hunting and dispersed camping. The Clatsop State Forest Recreation Plan does not list any specific activities for this portion of the basin.

XI. CULTURAL RESOURCES:

No known cultural resources are within or adjacent to the operation.

XII. SCENIC RESOURCES:

The sale areas are in a landscape of low visual sensitivity.

XIII. OTHER RESOURCE CONSIDERATIONS:

Area 1: No survey work required. No corners to protect. Located and reconned south portion of blazed property line in center of Section 26, T5N, R6W. Blazes are large and easily identifiable. No carsonite posts or property tags were seen.

Area 2: No survey work required. The $\frac{1}{4}$ corner of Section 34-35 may be within sale boundary and needs to be protected. It was rewitnessed in 2000.

Area 3: No survey work required. No corners to protect. Located south property boundary along township line of T4N and 5N, R6W. Property line lies anywhere from 50 to 250 ft. South of Ginger Creek which is a designated a Type F stream. The property line was blazed in 1981 from NE section corner Section 2 westerly to E 16th corner.

Minimal evidence remains of this blaze line. No carsonite post or tags were located. What was found was painted and flagged for approximately 700 ft. east of 16th corner, then lost line as it goes into dense reprod for rest of line to section corner. The property line from the E 16th, westerly to the $\frac{1}{4}$ corner has never been surveyed as it was formerly ODF property and traded in an exchange with Stimson.

If the sale boundary stays North of the riparian area, no survey work will be required. Otherwise $\frac{1}{2}$ mile will need to be established.

There is a N-S blaze line between Section 35-36 on the eastern portion of Area 3 which is now meaningless as it is now all ODF property east to Green Mountain Road.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The lands in this timber sale are all classified "general" management.

**FY2009
Green Lantern**

Portions of Sections 26, 34,
and 35 of T5N, R6W, W.M.
Clatsop County, OR



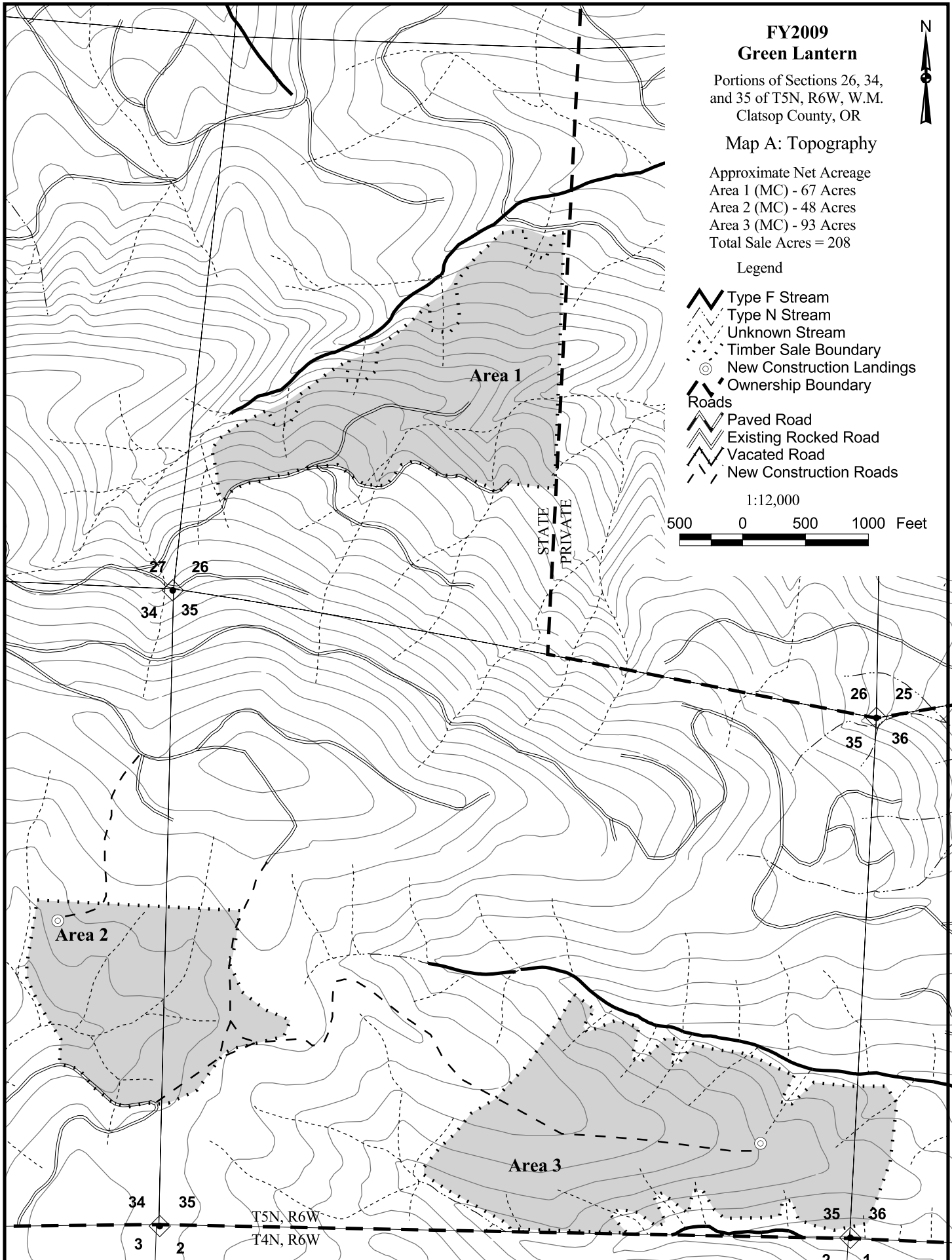
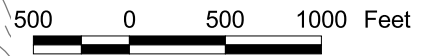
Map A: Topography

Approximate Net Acreage
Area 1 (MC) - 67 Acres
Area 2 (MC) - 48 Acres
Area 3 (MC) - 93 Acres
Total Sale Acres = 208

Legend

-  Type F Stream
-  Type N Stream
-  Unknown Stream
-  Timber Sale Boundary
-  New Construction Landings
-  Ownership Boundary
- Roads**
-  Paved Road
-  Existing Rocked Road
-  Vacated Road
-  New Construction Roads

1:12,000



**FY2009
Green Lantern**

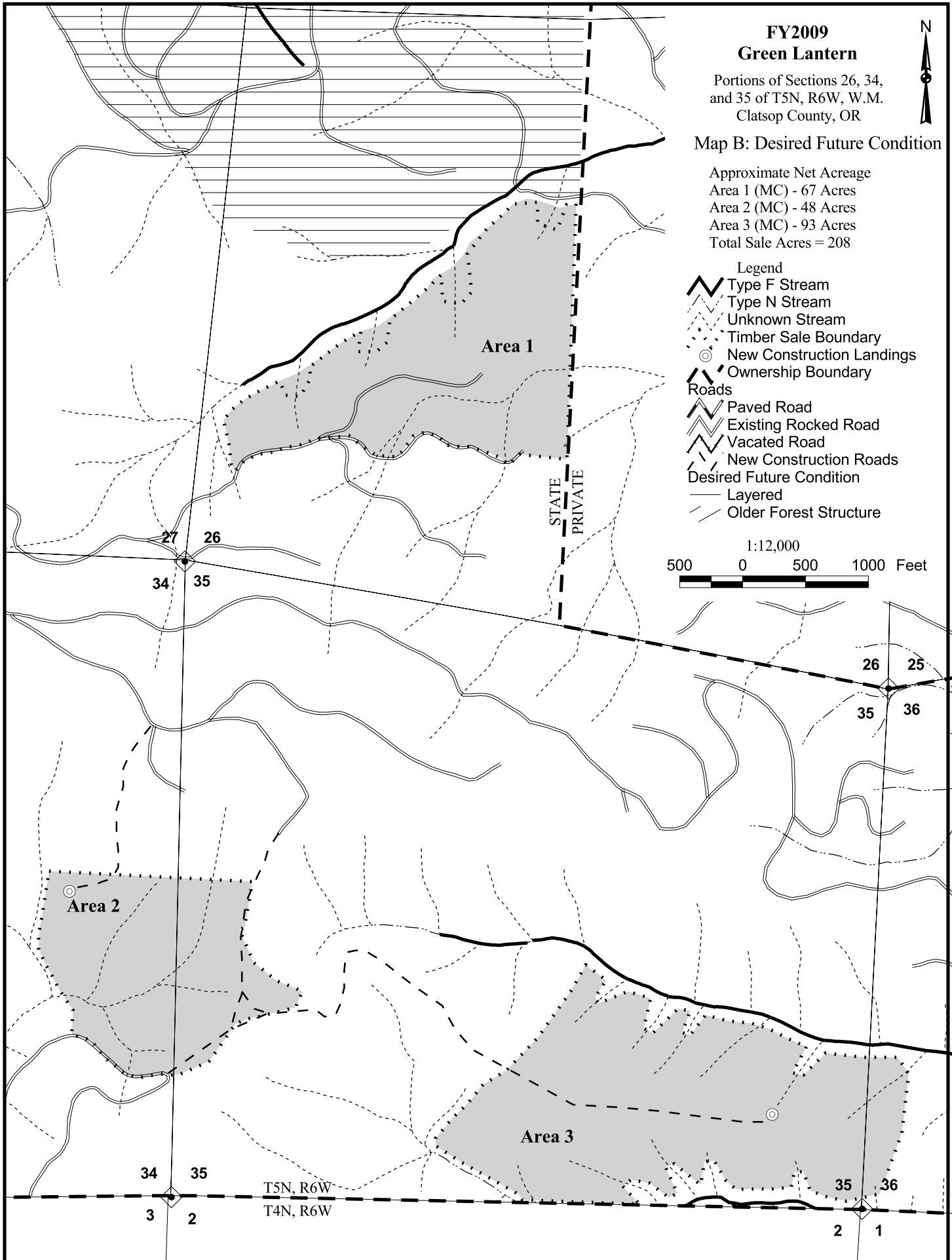
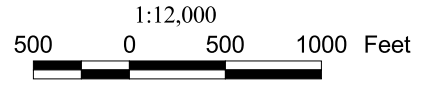
Portions of Sections 26, 34,
and 35 of T5N, R6W, W.M.
Clatsop County, OR



Map B: Desired Future Condition

Approximate Net Acreage
Area 1 (MC) - 67 Acres
Area 2 (MC) - 48 Acres
Area 3 (MC) - 93 Acres
Total Sale Acres = 208

- Legend**
- Type F Stream
 - Type N Stream
 - Unknown Stream
 - Timber Sale Boundary
 - New Construction Landings
 - Ownership Boundary
 - Roads**
 - Paved Road
 - Existing Rocked Road
 - Vacated Road
 - New Construction Roads
 - Desired Future Condition**
 - Layered
 - Older Forest Structure



**FY2009
Green Lantern**

Portions of Sections 26, 34,
and 35 of T5N, R6W, W.M.
Clatsop County, OR



Map C: Key Resources

Approximate Net Acreage
Area 1 (MC) - 67 Acres
Area 2 (MC) - 48 Acres
Area 3 (MC) - 93 Acres
Total Sale Acres = 208

Legend

-  Type F Stream
-  Type N Stream
-  Unknown Stream
-  Timber Sale Boundary
-  New Construction Landings
-  Ownership Boundary
- Roads**
-  Paved Road
-  Existing Rocked Road
-  Vacated Road
-  New Construction Roads
-  Salmon Anchor Habitat

1:12,000

