Pre-Operations Report

Operation Name: Winslow
County: Clatsop
Management Basin: Buster

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	MC	71	67
2	MC	37	35
3	MC	58	55
Total	Modified Clearcut	166	157

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The sale is located on the gentle side-slopes along Winslow Road on and below several ridges that divide Deep Creek and the unnamed tributaries to the West. Area 1 is located off of Deep Creek Road west of Buster Creek Road. Area 2 is to the west of Area 1 off of Deep Creek 30 Spur. Area 3 is located west of the Buster Camp Junction on Green Mountain 10 Spur. The sale is underlain by sedimentary rocks of the informal Sager Creek Formation, the Keasey Formation and the Cowlitz Formation.

II. CURRENT STAND CONDITION:

Area 1 - The current stand is generally 68 years old and is composed primarily of medium to large Douglas-fir with scattered red alder and mixed conifer. The stand is categorized as Understory Development (UDS) structure with a stand density index of 75. Area 1 has approximately 8 snags per acre over 12 inches in DBH, and 8 snags per acre over 24 inches in DBH. The stand has approximately 5,400 cubic feet per acre of down wood in all decay classes, and approximately 480 cubic feet per acre of down wood in decay classes 1 and 2.

Area 2 - The current stand is generally 72 years old and is composed primarily of Douglas-fir with small patches of red alder and scattered mixed conifer. The stand is categorized as Understory Development (UDS) structure with a stand density index of 63. Area 2 has approximately 1 snag per acre over 12 inches in DBH, and 1 snag per acre over 24 inches in DBH. The stand has approximately

1,900 cubic feet per acre of down wood in all decay classes, and approximately 60 cubic feet per acre of down wood in decay classes 1 and 2.

Area 3 - The current stands are generally 71 years old and are composed primarily of Douglas-fir and red alder with scattered mixed conifer. The stand is categorized as Understory Development (UDS) structure with a stand density index between 60 and 70. The western half of Area 3 has approximately 6 snags per acre over 12 inches in DBH, and 1 snag per acre over 24 inches in DBH. The stand has approximately 2,600 cubic feet per acre of down wood in all decay classes, and approximately 180 cubic feet per acre of down wood in decay classes 1 and 2.

Understory development consists primarily of salal, Oregon grape, sword fern, and huckleberry.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID	Species	Age	DBH	BA	TPA	SDI	Acres [2]
1	MC	24557	DF	68	21	336	131	75	67
		Target [3]							67
2	MC	24013	DF	72	21	278	111	63	35
		Target [3]							35
3	MC	24006	DF,WH	71	11	245	364	72	55
		Target [3]							55

1 The source of stand inventory information is SLI. Age is as of 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 SDI) after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

All areas will be clearcut. These areas do not have a complex desired future condition. The stands will be planted with a mixture of conifer species. It is anticipated that some natural regeneration of western hemlock and red alder will also occur. 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	24557	UDS	GEN	GEN	67
2	24013	UDS	GEN	GEN	35
3	24006	UDS	GEN	GEN	55

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:

All areas are designated for modified clearcuts. Five to seven of the largest conifer trees per acre will be left to provide a source for natural regeneration and future downed wood and snags in these areas.

Snags: In all harvesting activities, all existing snags will be retained unless deemed to be safety hazards. It is anticipated that additional snags will develop during harvesting activities by leaving, topping or girdling damaged rub trees, tail lift trees, and/or intermediate support trees (FMP, "Landscape Management Strategy 3c. Snags", pages 4-53 and 4-54). In addition, some snag creation may occur post-harvest in all three sale areas.

Green Trees: A combination of methods will be implemented to achieve the green tree retention requirements such as green tree retention areas, stream buffers, and trees scattered across the sale areas (FMP, page 4-53, Paragraph 2). Minor species found may be reserved from cutting; further consideration of those species will be taken during sale layout.

Downed wood: Pre-harvest downed wood debris levels are anticipated to be below 600cuft/ac. Efforts will be made to leave as much downed wood that is created from the harvest activities within the unit. This will be accomplished through topping trees and bucking out cull sections within the unit. During all harvesting activities, all existing down woody debris will be retained.

It is also anticipated that natural snag and down wood recruitment will occur post harvest over time due to natural occurrences.

Site preparation: Site preparation will be provided mainly by ground based harvesting and some cable settings. Seedlings will be planted at 300 trees per acre with a mixture of Douglas-fir, western hemlock, and western red cedar. Tree protection measures will be provided to all species except western hemlock. Mountain Beaver trapping may need to be conducted prior to planting. Prescription of herbicide application and slash manipulation will be evaluated at the time of sale preparation.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%	□	X
Planned Quarter		3rd Quarter	

	Conifer	Hardwood	Total
Net Volume (MBF)	7,500	0	7,500
Stumpage Value ($/MBF)	$180	$325	
Estimated Gross Value	$1,350,000	0	$1,350,000
		Project Costs:	$111,000
		Estimated Net Value:	$1,239,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to the harvest site will be Highway 202 to East Sager Creek Road to Deep Creek Road. Deep Creek Road and Sale Access spurs will require improvement for adequate hauling surface. Area 1 spurs will be dirt construction and will be vacated upon completion of logging activities. Area 2 roads will be surfaced to allow for future entries. Roadside brushing will be required from Area 3 to Buster Creek Road for safe hauling conditions.

The sale will have cable-yarding settings as well as ground yarding areas. These areas were determined from analysis of the terrain and landing locations.
Existing roads will be utilized as much as possible for logging the sale areas.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0.0	0.0	0.8	0.5
Improvement	0.0	3.1	0.0	0.0
Maintenance	11.0	2.1	0.8	0.0
Close/Block	0.0	0.0	0.0	0.0
Vacating	0.0	0.0	0.0	0.5

VII. AQUATIC RESOURCES AND WATER QUALITY:

Type F and Domestic Use Streams: The headwaters of Deep Creek, a medium Type F stream are located adjacent to the west and southwest of the Area 1 boundary for a distance of approximately 2,500 feet. A small Type F tributary of Deep Creek is adjacent to the east of the Area 1 boundary for a distance of approximately 1,500 feet. Deep Creek is adjacent to Area 3 on the north and west boundary for 3,500 feet and has a Type F tributary adjacent to the southern

boundary for 1,100 feet. The southern timber sale boundary will be posted at least 150 feet away from the stream due to the proximity of the Buck Ranch timber sale.

There are no known domestic water systems associated with this sale. The Type F streams contain Coho, a 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. 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 Aug. 31. Operations outside of this period will be reviewed with ODFW. If any additional in-stream work is done with this sale, it will all be conducted during in-stream work periods established by ODFW. Riparian management areas result in leave trees adjacent to the stream which protect stream temperature, provide nutrients, protect stream banks, and eventually provide wood to improve fish habitat.

Small Type N Streams just above the Type F/ N Boundary
Small type N streams can influence stream temperature of downstream fish-bearing streams. Sufficient trees will be retained within 500' of the confluence with type F streams to achieve 80% shade over streams.

Type N Streams: There are small perennial Type N streams within all sale areas. A 25' no-harvest buffer will be established along the small type N streams. Additional trees including some wildlife trees may be retained adjacent to the buffers, which may result in a wider buffer.

Seasonal Small Type N Streams: Equipment will be excluded from the stream bank zone (within 25' of the channel) to maintain the integrity of the stream channel. Some wildlife trees will be retained within and/or adjacent to the seasonal stream channels, which may result in a wider buffer.

In addition 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. 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.

There may be an opportunity to perform stream enhancement work in Deep Creek. Further assessment and collaboration will be done with ODFW biologists and the Jewell Unit Forester.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

All sale areas were surveyed to protocol for northern spotted owls in 2006, 2007 & 2008 with no detections.

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

This 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 with the sale area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based on a LiDAR-generated 1 m digital elevation model and available geologic maps.

There are high landslide hazard locations scattered throughout the sale area. The sale area drains to unnamed tributaries of Deep Creek. The risk of landslides delivering to these streams from Areas 1 and 2 is low to moderate and from Area 3 is moderate to high. Portions of all three of the sale areas appear to be located on deep-seated landslides. The geotechnical specialist will be consulted 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:

There are historic railroad grades within the sale area and additional reconnaissance will be conducted to determine protection measures, if any, during final sale preparations.

XII. SCENIC RESOURCES:

The sale areas are not visible from any county or state highway.

XIII. OTHER RESOURCE CONSIDERATIONS:

Areas 1 and 3 - No survey work required. No corners to protect.

Area 2 – The east boundary was blazed in 1981 by Russell, blazes were located and remarked in 2008.

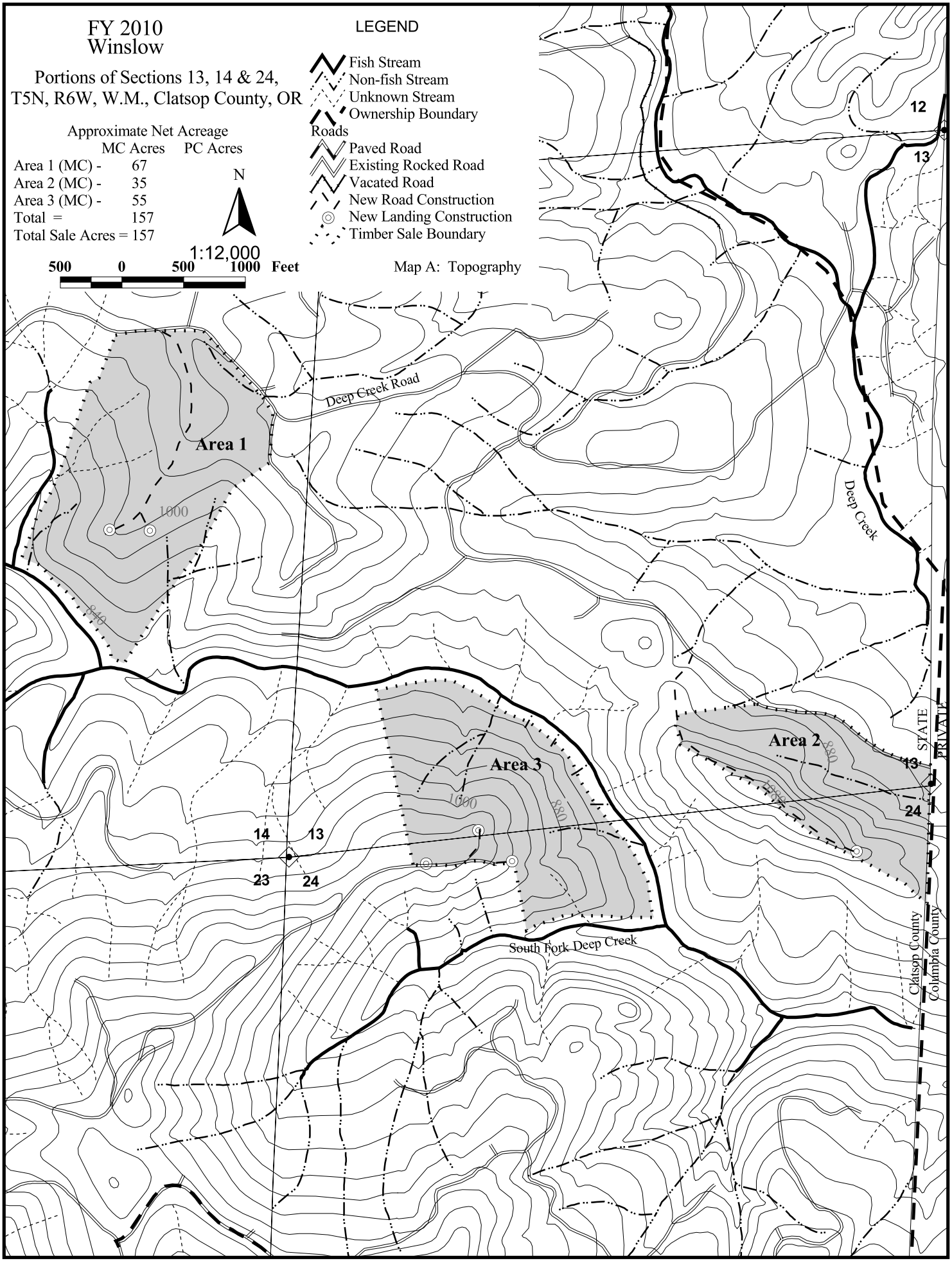
Corners requiring protection - Section corner to 13 and 24 is within sale area and will require protection. Corner was validated and rewitnessed in 2008.

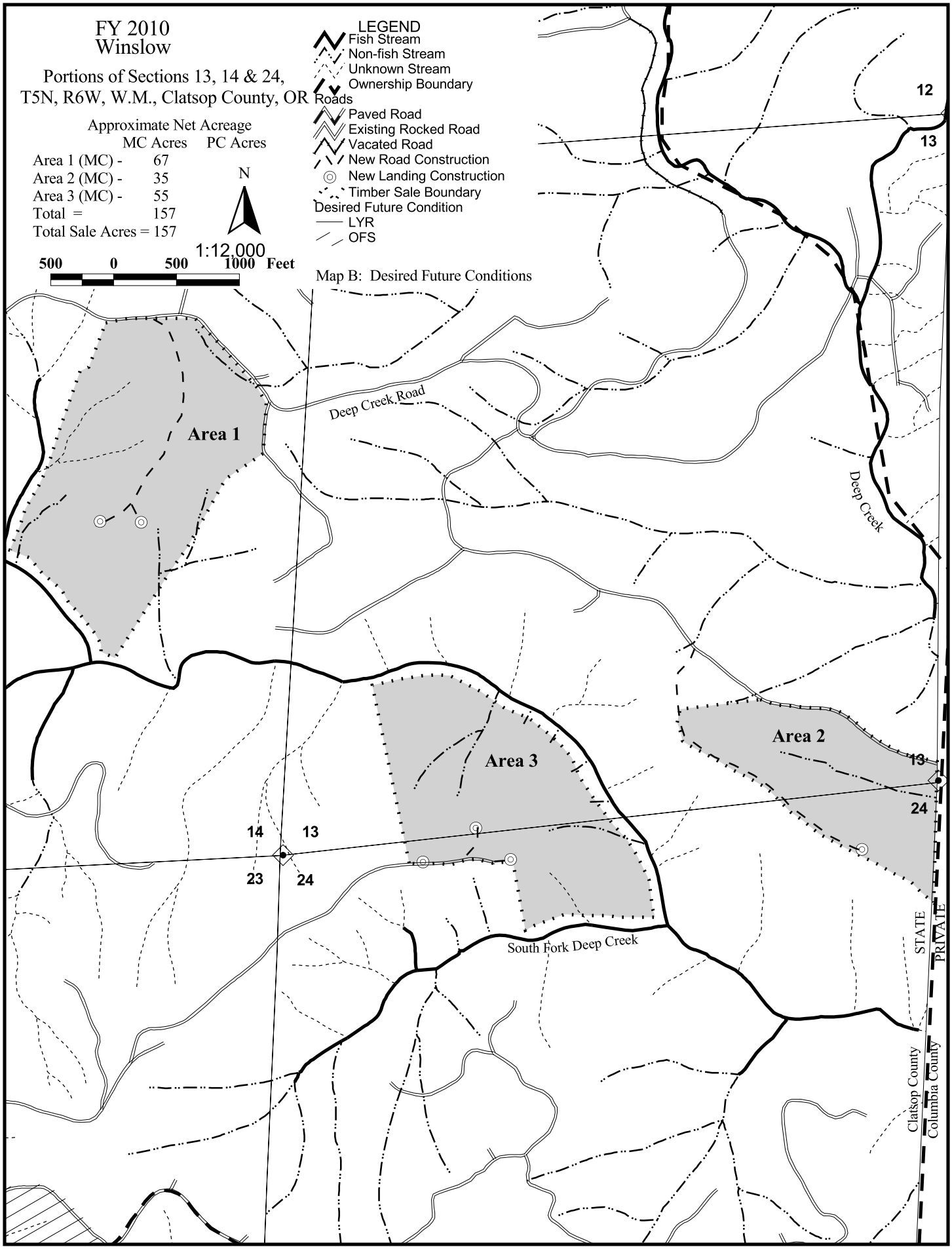
Validate, rewitness, or restore the following corners -

- ¼ corner to Sec. 12 and 7. (Morris 63)
- Section corner to 13, 14, 23, and 24 (Russell 80)
- Section corner to 23, 24, 25, and 26 (Russell 77)
- East ¼ corner to Section 25. (Russell 81)

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The lands in this timber sale are all classified “General” management.


FY 2010
Winslow
Portions of Sections 13, 14 & 24,
T5N, R6W, W.M., Clatsop County, OR
Approximate Net Acreage
MC Acres PC Acres
Area 1 (MC) - 67
Area 2 (MC) - 35
Area 3 (MC) - 55
Total = 157
Total Sale Acres = 157
N
1:12,000
500 0 500 1000 Feet
LEGEND
Fish Stream
Non-fish Stream
Unknown Stream
Ownership Boundary
Roads
Paved Road
Existing Rocked Road
Vacated Road
New Road Construction
New Landing Construction
Timber Sale Boundary
Map A: Topography
Area 1
Area 2
Area 3
Deep Creek Road
Deep Creek
South Fork Deep Creek
STATE
PRIVATE
Clatsop County
Columbia County
12
13
14
23
24
1000
840
880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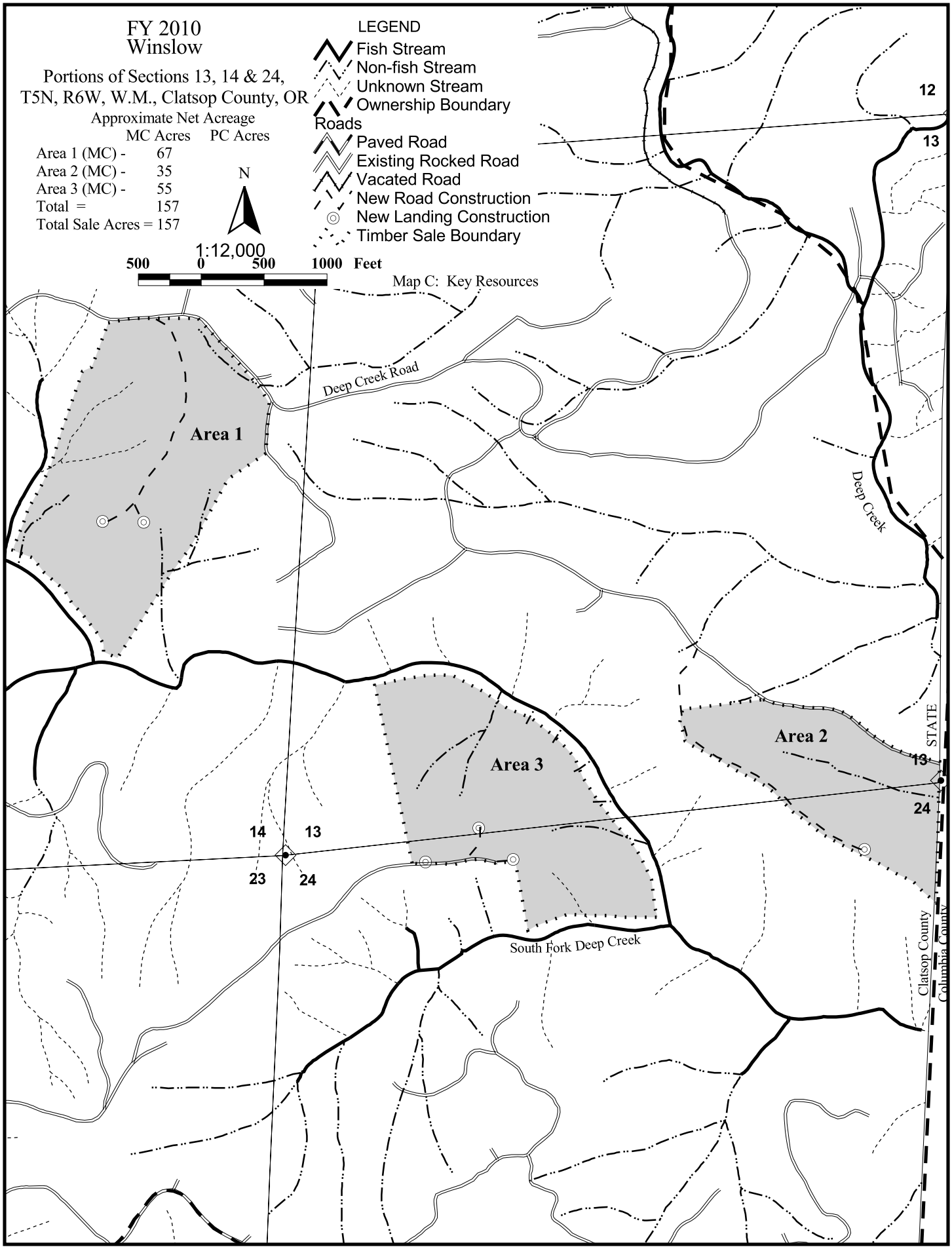
LEGEND
Fish Stream
Non-fish Stream
Unknown Stream
Ownership Boundary
Roads
Paved Road
Existing Rocked Road
Vacated Road
New Road Construction
New Landing Construction
Timber Sale Boundary
Desired Future Condition
LYR
OFS
Map B: Desired Future Conditions
Area 1
Area 2
Area 3
Deep Creek Road
Deep Creek
South Fork Deep Creek
12
13
14
23
24
STATE
PRIVATE
Clatsop County
Columbia County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N
1:12,000
500 0 500 1000 Feet
Map C: Key Resources
LEGEND
Fish Stream
Non-fish Stream
Unknown Stream
Ownership Boundary
Roads
Paved Road
Existing Rocked Road
Vacated Road
New Road Construction
New Landing Construction
Timber Sale Boundary
Area 1
Area 2
Area 3
Deep Creek Road
Deep Creek
South Fork Deep Creek
STATE
Clatsop County
Columbia County
12
13
14
13
23
24
13
24