

Timber Sale Preparation Prescription
General

Date: 03/03/2003

Forest Management Unit: Grayling

Timber Sale Number: Sale Name: **Helmer Lake Oak Block**

Local Contact: Patrick L. Potter TX (989) 348-6371 ext 7441

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Map of Project Area Attached

Legal Description: T27N R2E Section(s) 9 Description SE1/4, N1/2SW, SESW, SENW

Year of Entry: 2003 Compartment(s):10 Stand Number(s): 3, 4, and 203

This timber sale preparation contract is based on the following acreage:

Estimated Acres: 174 source OI GPS Other The contractor will use a GPS unit to determine enclosed acreage to the nearest one-tenth acre.

Treatment & Objectives: Final Harvest and Shelterwood

Stand nbr	Cover Type	Acres	BA / Acre	Treatment	Management Objective
3	O6	47	90	Shelterwood	Oak
4	O6	16	90	Shelterwood	Oak
203	O6	111	90	Final harvest	Oak

Prescription: Stands # 3, and 4, are Shelterwood cuts.

- (40% crown closure).
 - Mark to leave using green paint.
 - Residual BA 40.
2. Stand # 203 is a final harvest with variable retention islands.
- Mark out pockets of healthy oak, and oak/pine mixed area with red paint ranging in sizes (1/2 to 3 acres) all the way across from Noodles Road to Center Line Road. Acreage of the islands must equal 20% of stand 203's total acres.
 - Mark two trees 9 inches in diameter or larger at DBH per acre with an "X" using blue paint. These trees are to be next to each other so when felled their tops or trunks overlap.
 - Along Noodles Road leave patches only (NOT INDIVIDUAL TREES) ranging in sizes (1/4 to 1 acre).

Access: County roads (Richardson and Helmer Lake).

DNR preparation work to be done prior to contract work: Estimated date:

None	
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Contract work can begin:

Date: 4/01/03

Contract work must be completed by: Date August 30 2003
Paint Line Work

- This is bid item
 This is not a bid item

Paint line work to be performed. See attached map for locations.

Type of line	Work to be done	Not applicable	Paint color
Snowshoe hare Habitat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Blue
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red
Sale cutting unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yellow
Leave Island	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Red
Trees marked to leave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Green
Trees marked to cut	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Orange

Exclusions to mark and why: Islands of oak, and oak/pine mix, and individual trees for variable retention and visual management. Snowshoe Hare Habitat.

Standards for marking lines against private land: None

Area calculation:

Unit	Method	Standard
Sale	GPS	Appendix A
Payment unit	GPS	Appendix A
Leave Island	GPS	Appendix A

Special Instruction: Mark out pockets of healthy oak, and oak/pine mixed area ranging in sizes (1/2 to 3 acres) from Noodles Road to Center Line Road for variable retention and visual management. Mark two trees 9 inches in diameter or larger at DBH per acre with an X using blue paint. These trees are to be next to each other so when felled their tops or trunks overlap for snowshoe hare habitat. Along Noodles Road leave patches only (NOT INDIVIDUAL TREES) ranging in sizes (1/4 to 1 acre) variable retention and visual management.

Timber Cruising Specifications

This is a bid item

This is not a bid item

Required Basal Area Factor: 10

Cruise Line Direction: East/West

Cruising Units	Number of plots per acre	Spacing (chains)
Stand 3	One per acre	3.5 X 3.5
Stand 4	One per acre	3.5 X 3.5
Stand 203	One per 1.4 acres	4 X 4
Total Number of Cruise Points	131	

Cruise Special Instructions:

See attachment **Appendix B**

Unless otherwise specified, the tally sheets use must be those supplied by the Management Unit.

Timber Marking Specifications

- This is a bid item
- This is not a bid item
- Precise specifications to be delineated at pre-work meeting with DNR staff.

Total Residual BA (Basal Area): 40[Minimum 30 to Maximum 50] Stands 3 and 4 only.

Treatment	Number	Size
Regeneration gaps per acre	0	0
Girdled Trees per acre	0	0

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	0	0	0
Sawbolts	0	0	0
Pulpwood	0	0	0

Tally intensities

Species / product

Ratio:

	1 :
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Species to favor: White Oak

Species to reduce: Red Maple

Special Marking Instructions See Appendix C.

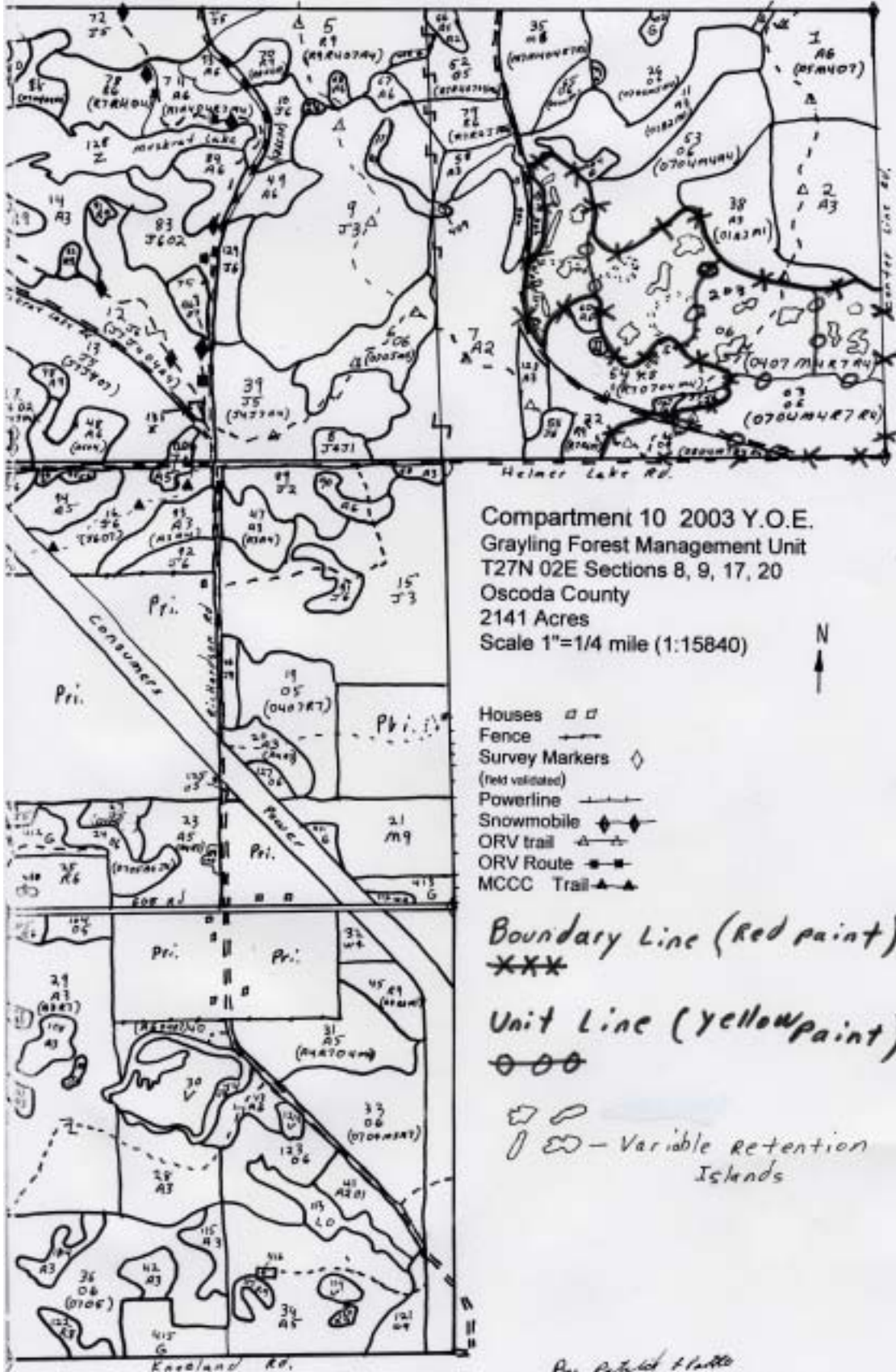
Unless otherwise specified, the tally sheets used must be those provided by the Management Unit.

Restrictions: We wish to be able to identify who did what on our sales. You may not have more than two markers in one payment unit without approval. Each marker should have an assigned area to mark (not strips).

Paint: Call (989) 348-6371 Ex: 7441 or 7442 to arrange for all paint pick up. Paint will be supplied from Grayling Field Office. Contractors work schedule must coincide with the DNR work schedule for paint supply. The DNR will not be available on weekends or evenings.

Deliverables:

1. A list of who marked (cruised) each payment unit (names)
 2. A summary of paint used (in quarts)
 3. Tally summaries for each payment unit, (one summary regardless of the number of markers) and all of the original tally sheets.
 4. GPS files for any GPS work done.
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Compartment 10 2003 Y.O.E.
 Grayling Forest Management Unit
 T27N 02E Sections 8, 9, 17, 20
 Oscoda County
 2141 Acres
 Scale 1"=1/4 mile (1:15840)



- Houses □ □
- Fence ———
- Survey Markers ◇
- (field validated)
- Powerline ———
- Snowmobile ◆◆◆
- ORV trail ▲▲▲
- ORV Route —■—■—
- MCCC Trail ▲▲▲

Boundary Line (Red paint)

 Unit Line (Yellow paint)
 ○○○
 Variable retention
 Islands

By Patrick H. Harte

Grayling Management Unit **Marking Boundaries and Area**

1. The attached type map delineates the contract marking area.
 2. Marking must be done in dry weather and when tree surfaces are not wet.
 3. Paint the boundary line in such a way that it can be seen both from the inside of the sale area and when walking along the line from either direction (two sides). Each boundary line tree must be stump-marked, at the base of the stump (one side) between the roots extending all the way to the ground.
 4. Paint in a unit line which will constitute the payment unit boundary, dividing the sale into payment units, as shown on the attached map.
 5. Place marks approximately six feet above the base of the tree.
 6. The contractor will keep track of total quarts of paint used per-sale by color.
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7. The contractor will use a GPS unit to determine enclosed acreage to the nearest one-tenth acre, unless an alternative method is approved prior by Unit Management.
 8. Position Mode must be set so that GPS receiver collects data from a minimum of four satellites, and positions deliver ODS (over determine system) data. 2D position will not be acceptable.
 9. Must log PDOP.
 10. PDOP mask less than or equal to 8.
 11. GPS units used must be compatible with Pathfinder Office 2.01 and/or capable of producing a Trimble .COR file format. In addition supply a disk of traverse file along with hard copy of the corrected traverse file.

Grayling Management Unit **Timber Cruising Specifications**

1. Cruise at a rate specified in the Timber Sale Preparation Prescription.
2. Use a 10-factor prism.
3. Use the product standards to determine products and heights of products. See appendix D of product summary in the “The Compleat Marker: A Guide to Managing Northern Hardwoods on Michigan State Forests.”
4. Mark location of plots on the map, using the plot number.
5. Determine residual BA of trees by species where applicable.
6. Unless otherwise agreed to by the contract administrator and the contractor, plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with a ribbon attached to it at a height of not less than two feet above the ground, and labeled with the plot number. In addition ribbon at least 12 inches long must be attached to a tree closest to plot center.
7. All cruise sheets must have compartment #, stand #, unit #, prism factor, date, individual tree species, and the cruiser's name.
8. The Grayling Management Unit Office will provide cruise sheets.
9. Estimate the volume in MBF and cords by individual tree species to be harvested using the point sampling cruising method.

Grayling Management Unit Crown Closure.

Appendix C

1. The attached type map delineates the contract marking area.
2. Harvest all red maple, and aspen.
3. Retain all high quality oak trees.
4. Manage for the best tree in place.
5. Mark only the trees to be left using green paint. Mark only the trees to be cut using orange paint.
6. Leave a residual BA as specified in the **Timber Sale Preparation Prescription**.
7. The Grayling Management Unit Office will provide paint.
8. Multiple stemmed trees must be either completely marked or completely left unmarked. Do not partially mark any multiple stemmed trees.
9. The contractor will keep track of total quarts of paint used per-sale by color.
10. Remove high risk and suppressed oak trees (codominants showing signs of high stress, such as heavy epicormic branching, majority of crown loss, damaged or potential damaged, or may not live another 10 years).
11. Do not discriminate regarding marking red, white, or northern pin oak species.
12. Where possible, leave a minimum of two den trees per acre. (Don't remove all poor quality trees; some may be left if suitable as den trees). All trees designated as den trees must be marked with green paint.
13. Marking must be done in dry weather and when tree surfaces are not wet.
14. Place marks approximately six feet above the base of the tree.
15. Mark the trees on two opposite sides. Each marked tree must be stump-marked, at the base of the stump (one side) between the roots extending all the way to the ground.
16. Paint must be applied on moss free areas.

17. The contractor must contact the timber sale administrator at least two days before stopping to gather paint.
