



TIMBER SALE PRESCRIPTION

GENERAL

Date March 31, 2008	Forest, Mineral and Fire Management Unit Grayling
Timber Sale Number (if applicable) 728000801	Sale Name (or prescription name) 298 South Branch RPP

LOCAL CONTACT

Name Patrick L. Potter	Telephone (989) 348-6371 ext: 7441
Email Address Potterp@michigan.gov	FAX (989) 384-8825

Map of Project Area Attached

LEGAL DESCRIPTION

T25N R02W Section(s) 1, 11 and 12. Section 1: SWSE, Section 11: N1/2N1/2, SWNE, SWNW, Section 12: W1/2NE, NENE.

Compartment(s): 298 YOE 2005, stands 71, 101 & 103.

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 164 Source: OI GPS Other _____

Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
71	R6	60	150	Final Harvest	Red Pine
101	R6	53	170	Final Harvest	Red Pine
103	R6	51	150	Final Harvest	Red Pine

PRESCRIPTION

1. Stand 71 - Final Harvest, except Unit 7. In Unit 7 (approximately 12 acres) mark-to-leave red pine with green paint down to 50 sq. ft. residual BA. All oak is to be left but will not count toward the 50 BA residual requirement.
2. Stand 101 - Final Harvest, except leave all oak.
3. Stand 103 - Final Harvest, except leave all oak.

Access: From Grayling, M-72 East to Chase Bridge Road, south to South Branch Road, east on South Branch Road to section 11 and sale area.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Private boundary for stands 101 & 103.	5/1/08

CONTRACT WORK CAN BEGIN

Immediately Date: 5/1/08 and after on-site meeting with contract administrator.

CONTRACT WORK MUST BE COMPLETED BY DATE July 31, 2008

PAINT LINE WORK

This is included in the bid This is not included in the bid

Paint line work to be performed: (See attached map for locations)

TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR	
Private boundary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Retention islands	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Other:

Exclusions to mark and why

In stand 71 -Units 5 & 6, leave a total of 3.0 acres for retention in scattered islands ranging in size from 0.25-0.5 acres. In stand 101- Units 3 & 4, leave a total of 2.5 acres for retention in scattered islands (ranging in size of 0.25-0.5 acres) concentrated near the private boundary. In stand 103-Unit 2, leave a 2.5 acre island adjacent to the private boundary. An on-site meeting with the contract administrator must occur prior to beginning any field work in order to discuss the details of the outlined visual management elements (Unit 7's marking and Units 2-6 leave islands).

Standards for marking lines against private land

N/A

AREA CALCULATION

This is included in the bid This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Retention Islands	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions: GPS files must provide acreage for the total sale area and for each stand, payment unit and retention island. Unit lines must be recorded as line features. Retention islands must be recorded as area features.

See APPENDIX A

TIMBER CRUISING SPECIFICATIONS

This is included in the bid This is not included in the bid

Required Basal Area Factor: 10 20 Other:

Cruise Line Directions North/south

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
1 & 2 (stand 103)	0.9	3.25 X 3.5
3 & 4 (stand 101)	0.9	3.25 X 3.5
5, 6 & 7 (stand 71)	0.8	3 X 4
TOTAL NUMBER OF CRUISE POINTS	143	

Cruise Special Instructions: Cruise all species separately. Separate cruise data by stand except for stand 71: cruise Unit 7 separate from the rest of stand 71. Enter cruise data into POSALE by stand, except enter Unit 7 data separately as stand 717 and adjust acreage accordingly.

See APPENDIX 8 (will be provided upon request) and APPENDIX B

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

TIMBER MARKING SPECIFICATIONS

This is included in the bid This is not included in the bid

Precise specifications to be delineated at pre-work meeting with DNR staff

Total Merchantable Residual BA (Basal Area): 50 (Minimum 40 to Maximum 60)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		0	
Girdled Trees Per Acre		0	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs			
Sawbolts			
Pulpwood			

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
	1 :
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

Marking prescription applies to Unit 7 only (approximately 12 acres). Details of the marking will be discussed at the on-site meeting with the contract administrator.

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

RESTRICTIONS

1. Forest, Mineral and Fire Management Division must be able to identify who did what on the timber sale.
2. The contractor may not have more than two markers in one payment unit without prior approval.
3. Each marker should have an assigned area to mark (not strips).

PAINT

1. Call Patrick L. Potter at (989) 348 - 6371 ext: 7441, to make arrangements for paint.
2. Paint will be supplied from the Grayling Field Office.
3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
4. The DNR will not be available on weekends or evenings.

DELIVERABLES

1. A list of names that marked or cruised each payment unit.
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.
5. Cruise data entered into POSALE and exported onto a disk. Use the sale name and number from page 1.

Grayling Management Unit **Boundary Marking and Area Calculation**

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 from both 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 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.
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. GPS units used must be compatible with Pathfinder Office (2.01 or later) and capable of producing a Trimble .cor file format. Supply a disk and paper copy of the corrected and edited (outlier/erroneous points cleaned up) traverse file.
9. Position Mode must be set so that the GPS receiver collects data from a minimum of four satellites. This must be recorded in the position properties window after downloading.
10. The GPS receiver must log PDOP. This log must be recorded in the position properties window after downloading.
11. PDOP mask must be less than or equal to 8.
12. SNR setting must be greater than or equal to 4.
13. Sale boundaries are to be recorded as an area feature, not a line. Isolated stands must each be recorded as separate area features.
14. Payment Unit lines must be recorded as a line feature bisecting the sale.

Grayling Management Unit Timber Cruising Specifications

1. Cruise designated timber using Appendix 8 Product Standards to determine products and heights of products. Separate cruise data by species/product. Appendix 8 will be provided upon request.
2. Cruise at the sampling intensity specified in the Timber Sale Prescription and apply that rate to your actual GPS'd stand acreage.
3. Separate cruise data by stand.
4. Use a 10-factor prism.
5. Mark location of plots on the map, using the plot number.
6. Record residual BA of trees where applicable. Record any mark-to-girdle trees separately. Do not count mark-to-girdle trees toward the specified residual BA target.
7. 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 PU/stand number and plot number. In addition, ribbon at least 12 inches long must be attached to the tree closest to plot center.
8. All cruise sheets must be labeled with the compartment #, stand #, unit #, prism factor, date, individual tree species, and the cruiser's name.
9. The Grayling Management Unit Office will provide cruise sheets.
10. **A copy of the "POSALE" program will be provided to the successful bidder for cruise data entry. Original cruise sheets and a disk containing cruise data exported from POSALE must be delivered upon the completion of the sale.** Note: At the cruise data entry screen in POSALE, when prompted to enter the stand acres, enter your actual GPS file acres – NOT the contract's estimated inventory-based acreage.