

TIMBER SALE PRESCRIPTION

GENERAL									
Date					orest, Mineral and	d Fire Manage	ement Ünit		
8/21/08	or (if applicable)				Grayling	porintion nam	0)		
				I .	Sale Name (or prescription name) Compartment 206 mix				
LOCAL CONTA	СТ				ompartment 20	O IIIIX			
					Telephone				
					(989) 348–6371 ext: 7446				
					FAX (090) 349 9935				
MerrickL@michgan.gov (989) 348-8825									
⊠ Map of Pro	ject Area Atta	ched							
LEGAL DESCRI	PTION								
T27N R04w Section(s) 24 Description: SESE, N1/2SE, NE1/4, NW1/4-sec24									
Compartment(s):	: 206 (YOE 2009) stands 3,	, 10, 13, 25, & 2	26					
THIS TIMBER S	ALE CONTRAC	T IS BASE	D ON THE FO	DLLOWING	ACREAGE				
Estimated Acre	s: 197 Sour	rce: 🛛 OI	I ☐ GPS	☐ Other	r				
Payment will be n	nade on the basis	of these e	stimated acres.						
TREATMENT &			Annual Co doi Co.						
STAND#	COVER TYPE	ACRES	ВА	TREATME	NT	MANAGEME	NT OBJECTIVE		
03	R6	25	140	Thinning		Red Pine			
10	09	63	80	Seed Tree		Oak			
13	A6	39	70	Final Harv		Aspen			
25	06	57	120	Final Harv		Oak			
26	R6	13	130	Thinning		Red Pine			
20	110	10	100	Thinking		rica i inc			
PRESCRIPTION									
 Stand 03-Thinning-Mark to cut to a residual of 80 BA Stand 10-Seed Tree Mark-to-Leave to a residual of 20 BA with retention Stand 13-Final harvest with retention Stand 25-Final harvest with retention Stand 26- Thinning-Mark to cut to a residual of 70 BA Access: From the entrance of the Grayling High School go north 1.5 miles on Old U.S. 27, then turn right follow two-track to the snowmobile trail.									
DNR PREPARA	TION WORK TO	BE DON	E PRIOR TO C	ONTRACT	T WORK		ESTIMATED DATE		
CONTRACT WO	DRK CAN BEGIT								
☐ Immediately									
CONTRACT WORK MUST BE COMPLETED BY July 31, 2009									
JONITAGE WORK MUST BE COMPLETED BY July 31, 2009									

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		\boxtimes	□ Blue	Other:				
Sale boundary	\boxtimes		⊠ Red	☐ Other:				
Sale cutting unit	\boxtimes			☐ Other:				
Retention islands & leave clumps			⊠ Green	Other:				
Exclusions to mark and why: For retention: In stand 10 leave a total of 5% of the stand in 0.25 acre islands scattered throughout the stand. In addition mark all red pine trees larger than 20 inches at DBH with a single green paint line that encircles the trees. In stand 13, leave a total of 3% of the stand acres in scattered islands ranging in size from 0.25 - 0.5 acre along the snowmobile trail. In stand 25 leave a total of 8 % of the stand in 0.25 - 0.5 acre islands scattered throughout the stand avoid leaving any aspen in the retention islands, in addition leave one HEALTHY oak every two acres with a single green paint line that encircles the trees. 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 🔲 GPS	☑ GPS ☐ String Chain ☐ Other							
Payment Unit 🛛 GPS	☑ GPS ☐ String Chain ☐ Other							
Stand 🛛 GPS	☐ GPS ☐ String Chain ☐ Other							
Retention Island								
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 East/West								
CRUISING UNITS	NU	IMBER OF PLOTS	PER ACRE	SPACING (CHAINS)				
1 (stand 03)	1			3.3 X 3				
2 & 3 (stand 10)		3		3.3 X 4				
4 (stand 13)				3.3 × 3				
5 & 6 (stands 25)	0.9)		3.3 X 3.5				
7 (stand 26)	1			3.3 X 3				
TOTAL NUMBER OF CRUISE POINT	rs 11	7						
Cruise Special Instructions: Cruise all species separately. Separate cruise data by stand.								
See APPENDIX 8 (will be provided upon request) and APPENDIX B Unless otherwise specified, the fally sheets used must be those supplied by the Forest. Mineral and Fire Management Unit								

HONS											
d 🔲 This is not included in	n the bid										
☑ Precise specifications to be delineated at pre-work meeting with DNR staff											
I BA (Basal Area): see belor	w (Minimum <u>see below</u> to	Maximum <u>see below</u>)									
TMENT	NUMBER	SIZE									
è											
MARKING SYMBOL	MINIMUM DBH	TOP DIB									
WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR									
		⊠ Green □ Other									
		⊠ Orange □ Other									
TALLY IN	TENSITIES										
PRODUCT	RATIO										
1:											
	This is not included in a specifications to be delinead I BA (Basal Area): see below MENT MARKING SYMBOL WORK TO BE DONE	This is not included in the bid e specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specifications to be delineated at pre-work meeting with the bid specification to b									

SPECIAL MARKING INSTRUCTIONS:

In stand 3, mark-to-cut with orange paint to a residual BA of 80 (min 70 to max 90). Removing the majority of jack pine, but leaving some for retention. Also marking the suppressed red pine around the oak trees.

In stand 10, mark-to-leave with green paint to a residual BA of 20 (min 10 to max 30), concentrating on cutting the smaller diameter oak, and marking all red pine trees larger than 20 inches at DBH with a single green paint line that encircles the tree to leave.

In stand 26, mark-to-cut with orange paint to a residual BA of 70 (min 60 to max 80), taking out some of the economically mature pine, but marking for future poles.

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 to 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 Lucas Merrick at (989) 348 6371 ext; 7446, 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

- 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.
- 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.
- The GPS receiver must log PDOP. This log must be recorded in the position properties window after downloading.
- 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

- 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.
- 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.