

TIMBER SALE PRESCRIPTION

GENERAL											
Date				Forest, Mineral and Fire Management Unit							
8/31/2010				Grayling FMU							
Timber Sale Numb	er (if applicable)			Sale Name (or prescription name)							
72-001-11-01			Comp 11 Red Pine								
Name				CONTACT	NIACI elephone						
Joan Charleb	oia			(989) 348 – 6371 x 7443							
Email Address	015			FAX							
Charleboisj@	michigan.gov			(989) 348 - 8825							
⊠ Map of Project Area Attached											
LEGAL DESCRIPTION											
T27N R2E Section(s) 4 & 5 Description Sec 4: W1/2SW & Sec 5: SESE, & T28N R2E Sec 33: NE & N1/2SE											
Voor of Entry 2011 Comportment/o)(11 Ctand Number/o)(22 22											
Year of Entry: 2011 Compartment(s):11 Stand Number(s): 27 and 37											
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE											
Estimated Acre	s: 91 Sourc	e: 🖂 OI	☐ GPS	Othe	r						
											
Payment will be n	nade on the basis	or these es		TMENT	& OBJECTIVE						
STAND#	COVER TYPE	ACRES	BA		REATMENT		MANAGEMENT OBJECTIVE				
				- "	CATIVILIA	•	WANAGEMENT OBJECTIVE				
27	R9	32	120	Thinni	ng	Red Pine					
37	R9	59	130	Shelte	rwood-Seed	Red Pine					
4 2 3 3					RIPTION	6	1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
							al BA. Also leave 10 square				
feet of oak scattered throughout the stand. Jack pine & aspen are designated cut species and therefore do not need to be marked.											
2. Stand 37 - Shelterwood - Mark to leave an average of 40 square feet of residual BA, favoring											
Red Pine to retain, but also leaving White Pine as needed to maintain the minimum residual.											
All other species are designated to be cut. Leave 20 additional square feet of residual BA immediately along both edges of the ORV trail.											
Immediately along both eager of the one trail.											
Access Stand 27: CR 608 (W. Miller Road), north on Centerline Road to Noodles Lake Road.											
Stand 37: Centerline Road north of Nancy Brown Road.											
DNR PR	REPARATION W	ORK TO E	BE DONE PRIC	OR TO C	ONTRACT WOR	2K	ESTIMATED DATE				
none											
CONTRACT WORK CAN BEGIN											
CONTRACT WORK MUST BE COMPLETED BY: 05/30/2011											

TYPE OF LINI	WORK TO BE DO	ONE NOT APPLICABLE		PAINT COLOR	
Private boundary	П		Blue	Other:	
Sale boundary			⊠ Red	Other:	
Sale cutting unit			Yellow	Other:	
Stand type line				Other:	
standards for mar	king lines against priva	ite land AREA CALCUL	ATION		
This is included	I in the bid 🔲 This is	not included in the	bid		
🖄 i nis is included				STANDARD	
UNIT	METHOD			STANDARD	
		Chain		STANDARD	
UNIT	METHOD			STANDARD	
UNIT Sale Payment Unit Stand Special Instruction	METHOD GPS String GPS String GPS String string	Chain Other	ECIFICATIONS	STANDARD	
UNIT Sale Payment Unit	METHOD GPS String GPS String GPS String GPS String Is: endix A I in the bid This is ea Factor: 10	Chain Other Chain Other Chain Other		STANDARD	
UNIT Sale Payment Unit Stand Special Instruction See attached App This is included Required Basal Ar Cruise Line Direction	METHOD GPS String GPS String GPS String GPS String Is: endix A I in the bid This is ea Factor: 10	Chain Other Chain Other Chain Other IMBER CRUISING SP IN THE CONTROL OTHER CON	bid		
UNIT Sale Payment Unit Stand Special Instruction ee attached App This is included Required Basal Ar Cruise Line Direction	METHOD GPS String GPS String GPS String GPS String Is: endix A I in the bid This is ea Factor: 10	Chain Other Chain Other Chain Other	bid	SPACING (CHAIN	
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TIMBER MARKING SPECIFICATIONS									
oxtimes This is included in the bid $oxtimes$ 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) Stand 27: 90 (Minimum 80 to Maximum 100)									
Total Merchantable Residual BA (Basal Area) Stand 37: 40 (Minimum 30 to Maximum 50)									
TREA	ATMENT	NUMBER	SIZE						
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB						
Sawlogs Sawbolts	Single slash on two opposite sides	9.1 inches	8.0 inches						
Sawboits	Single slash on two								
Pulpwood	opposite sides	4.6 inches	4.0 inches						
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR						
Trees marked to leave	⊠ stand 37		☐ Green☐ Other						
Trees marked to cut	⊠ stand 27		⊠Orange ☐ Other						
TALLY INTENSITIES									
SPECIES	7 PRODUCT	RATIO							
		1:							
		1:							
		1:							
ODEOLAL MADICINIO INICED	UOTIONO.	T :							
SPECIAL MARKING INSTRUCTIONS For stand 27, see attached Appendix F.									
or stand 27, see attached Appendix F. Or stand 37, see Attached Appendix C and mark approximately 20 additional square feet of residual									

basal area immediately along both edges of the ORV trail; details will be discussed at the pre-work meeting.

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

RESTRICTIONS

- 1. Forest 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 Joan at (989) 348 6371 x 7443, to make arrangements for paint.
- 2. Paint will be supplied from 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. Names of those who marked each payment unit.
- 2. A summary of paint used (in quarts).
- 3. GPS files for any GPS work.

Appendix A

Grayling Management Unit Boundary Marking and Area Calculation

- 1. The attached type map shows the contract marking area (stands 27 & 37).
- 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 unit lines that will constitute payment unit boundaries. Split each stand into two payment units of approximately equal acreage. Stand 27 should have an east-west unit line. Stand 37 should have a north-south unit line.
- 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) or be capable of producing an ArcView-compatible shapefile. Supply electronic and paper copies of the corrected and edited (outlier/erroneous points cleaned up) GPS 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 or HDOP. This log must be recorded in the position properties window after downloading.
- 11. PDOP/HDOP 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 line features bisecting the stand. Area calculation is not needed for the Payment Units.

Grayling Management Unit Shelterwood Sale Preparation Individual Leave Tree Marking

Appendix C

- 1. Select leave trees that will be wind-firm and good seed producers.
- 2. Remove high risk and suppressed trees.
- 3. Where possible, mark-to-leave two den trees per acre.
- 4. The Grayling Management Unit Office will provide paint.
- 5. The contractor will keep track of total quarts of paint used per-sale by color.
- 6. Marking must be done in dry weather and when tree surfaces are not wet.
- 7. Place marks approximately six feet above the base of the tree.
- 8. 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.
- 9. Paint must be applied on moss free areas.

Grayling Management Unit Red Pine Thinning Sale Preparation Individual Tree Marking

Appendix F

- 1. Target for removal high-risk, damaged, declining, poor-form and suppressed red pine trees.
- 2. Favor potential utility-pole stems.
- 3. Remove economically mature red pine where BA allows (more detailed instruction to be given at on-site meeting with the contract administrator).
- 4. The Grayling Management Unit Office will provide paint.
- 5. The contractor will keep track of total quarts of paint used per sale by color.
- 6. Marking must be done in dry weather and when tree surfaces are not wet.
- 7. Mark the trees on two opposite sides. Place marks approximately six feet above the base of the tree.
- 8. Each marked tree must be stump-marked, at the base of the stump (one side), between the roots and extending all the way to the ground.
- 9. Paint must be applied on moss-free areas.