

TIMBER SALE PRESCRIPTION

				GENERAL				
Date				Forest, Mineral	Forest, Mineral and Fire Management Unit			
08/01/2011	•							
Timber Sale Numb	per (if applicable)			, ,	Sale Name (or prescription name)			
52-???-11-01					est Location			
N.				LOCAL CONTACT				
Name	me Telephone							
Tim Greco (989) 732 - 3541 Email Address FAX								
Email Address								
grecot@michi	gan.com			[()	-			
⊠ Map of Pro	ject Area Atta	ched						
T37N R6W	Section(s) 27 8	24		LEGAL DESCRIPTION				
T37N R6W	Section(s) 27 8	. 34						
Year of Entry: 2011 Compartment(s): 105 Stand Number(s): 31								
	THIS	TIMBER S	ALE CONTR	RACT IS BASED ON THE	FOLLOWING AC	REAGE		
Estimated Acre	99. 41 Sourc	e: 🗌 OI	⊠ GPS	Other				
								
Payment will be r	nade on the basis	of these e						
			TRI	EATMENT & OBJECTIVE				
STAND#	COVER TYPE	ACRES	BA	TREATMENT	MA	NAGEMENT OBJECTIVE		
31	м9	41	150	Selection	Hardwoods			
-								
				DDESCRIPTION				
				PRESCRIPTION Background				
1 Thitial	PA rangos fa	com 110 :	to 100 wit	_	0			
	n marked to			th an average of 15	0.			
Z. Has bee	ii mainea eo e	dowii co	DO DA.					
		То	Be Compl	leted on This Pre	scription			
1. Establis	sh plot cente		_		_			
	d record data		" trees.					
See cruising section for specific instructions.								
Access Dalada	DEDADATION M	ODV TO I	DE BONE DE	NOD TO CONTRACT W	ODI/	FOTIMATED DATE		
DNR PI	REPARATION W	ORK TO E	SE DONE PR	RIOR TO CONTRACT WO	JKK	ESTIMATED DATE		
N/A								
CONTRACT WORK CAN BEGIN								
	-							
CONTRACT WO	ORK MUST BE C	COMPLETI	ED BY Date (October 28, 2011				

		PAINT LINE V	/ORK					
☐ 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			Blue	Other:				
Sale boundary			Red	Other:				
Sale cutting unit			☐ Yellow	Other:				
Stand type line				Other:				
Exclusions to mark and why				<u>.</u>				
Standards for marking lines agains	st private la	and						
			A=1011					
		AREA CALCUL	ATION					
\square This is included in the bid \square	This is not	included in the	e bid					
UNIT METHOD				STANDARD				
Sale GPS	String Chai	n Other						
Payment Unit GPS	String Chai							
Stand GPS G	String Chai	_						
Special Instructions:								
•								
TIMBER CRUISING SPECIFICATIONS								
☑ This is included in the bid ☐ This is not included in the bid								
Required Basal Area Factor: 10 20 Other: 5								
Cruise Line Directions Systematic plot location with a random start. We must have 20 points per								
unit, unless otherwise approved by the DNR. Plot locations must be GPS'ed and also provided to the DNR on a map.								
CRUISING UNITS		NUMBER OF PLO	TS PER ACRE	SPACING	(CHAINS)			
West Twenty		1		N/a X N/a				
East Twenty		1		N/a X N/a				
-				X				
				X				
TOTAL NUMBER OF CRUISE POI	NTS	4()					

Cruise Special Instructions:

Establish temporary plots. Plot center will be set with something like a wooden stake, re-bar, PVC pipe or some other approved device. PVC may work best as plot center staff can be placed inside the pipe. The center stake must stick out at least 4" above the ground, be flagged, painted, numbered and easy to see. Numbering will start with 1 and end with 20. Two additional flags should be placed overhead or nearby, with 'tails' at least 2' and numbered so the plot may be easily located.

The trees for harvesting have already been marked with orange paint and some of the marked trees have also been numbered with red paint, though a few were numbered in orange (hereafter called prenumbered trees). All trees, whether 'marked', 'marked & pre-numbered' or 'leave', that are 'in' using a Limiting Distance Table with a Basal Area Factor of 5, will be marked, numbered and measured. Start each point from North and go clockwise. Marking will consist of a horizontal line (about 6") at dbh and a tree number anywhere on the tree, but clearly visible from plot center which does not obscure other markings or numbers already on the tree. A 4.5' staff would be very useful in consistently and quickly identifying DBH. Tree numbering will start at 1 for each plot. Azimuth and distance to the center of the tree at the base from the plot center will be recorded along with species and dbh to the nearest 10th inch (rounding down) with a d-tape. Also, record the tree as 'marked', 'marked & pre-numbered', or 'leave'. If the tree is 'marked & pre-numbered', record the pre-numbered number for the tree along with the new tree number. There can be no mistakes on 'in' and 'out' trees. When trees are near the edge of the stand, the 'walkthrough' method (Ducey et al 2004) will be used. If a tree is double counted using the 'walkthrough' method, then two numbers will be needed on the tree, e.g. 7 and 8 and the tree will be recorded twice on the plot, e.g. one record for tree 7 and one record for tree 8.

We need at least 25% or 1 out of every 4 trees as 'marked & pre-numbered'. If on the plot, there are less than 25% 'marked & pre-numbered' trees, then you will need to select one of the 'marked' trees and add unique numbers until you reach at least 25%. For example, for every 4 trees marked, there needs to be one pre-numbered tree or one unique numbered tree. For each 20 acre stand, start with the number 800 for the unique tree number. For example, if a plot has 6 'marked' trees and only one of the 'marked' trees is 'marked & pre-numbered', then an additional numbered tree would be added (6 divided by 4 = 1.5 numbered trees, round up to 2). Randomly select one of the 'marked' trees for numbering and paint the tree with a unique tree ID. To determine the tree or trees to number, use a random number table, dice, or other DNR approved method.

Stakes will be provided by the contractor. Aerosol paint will be supplied by the DNR. A different color paint will be used then the color used to mark the stand.

Note that your tally card would have the following columns: Tree #, Species, DBH, Azimuth, Distance, Marked/Pre-number/leave (enter M for Marked, the pre-numbered number/unique tree number or L for Leave). Plot number could be a column or could be noted on the top of the tally card if one card were used per plot.

Tally sheets or an electronic data recorder will be provided by the contractor. The final product to the DNR will be in Excel, a hardcopy map and GPS plot locations.

	TIMBER MARKING	SPECIFICATIONS						
☐ This is included in the bi	d 🛛 This is not included in	n the bid						
☐ Precise specifications to	be delineated at pre-work m	eeting with DNR staff						
Total Merchantable Residual BA (Basal Area): (Minimum to Maximum)								
TREA	TMENT	NUMBER	SIZE					
Regeneration Gaps Per Acre Girdled Trees Per Acre	е							
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			Green Other					
Trees marked to cut			Orange Other					
	TALLY IN	I TENSITIES	Other					
SPECIES /	PRODUCT		ATIO					
		1 :						
		1 : 1 :						
		1 :						
SPECIAL MARKING INSTRU	JCTIONS							
RESTRICTIONS 1. Forest Management Division must to be able to identify who did what where on the timber sale.								
PAINT 1. Call Tim Greco at (989) 732 - 3541, to make arrangements for paint.								
2. Paint will be supplied from the Gaylord Operations Service Center. 2. Paint will be supplied from the Gaylord Operations Service Center.								
3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.								
4. The DNR will not be ava	ilable on weekends or evening	S						
<u>DELIVERABLES</u>								
A list of names that marked or cruised each payment unit.								
2. A summary of paint used (in quarts).								
3. Tally summaries for each plot in Excel.								
4. GPS files for any GPS work.								