TIMBER SALE PRESCRIPTION

				GENERAL					
Date									
02/19/2009					Cadillac FMU				
Timber Sale Number (if applicable) Sale Name (or prescription						e)			
63-010-09-01 C26 Small Pieces LOCAL CONTACT									
Name Telephone									
Cheryl Nelso	Cheryl Nelson (231) 745-4651 Ext. 6942								
Email Address									
nelsonca@mi	chigan.gov	743							
Map of Project Area Attached									
				EGAL DESCRIPTION					
T18N R12W	Section(s) 31	Descrip	tion See Ma	p					
Year of Entry:	2007 Compar	rtment(s):2	6 Stand Nu	Imber(s) : 17, 99, 102	, 214				
	THIS	TIMBER SA		ACT IS BASED ON THE	FOLLOWING	ACREAGE			
Estimated Acr	res: 53 Sourc	e: 🛛 OI	🗌 GPS	Other					
Payment will be	made on the basis	of these est	timated acres.						
			TRE	ATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT		MANAGEMENT OBJECTIVE			
17	06	15	110	Seed Tree	0ak				
99	06	15	100	Shelterwood-Seed	0ak				
102	J6	10	90	Final Harvest	Jack Pine	2			
214	J6	13	70	Seed Tree	Jack Pine				
214	00	13	70	Seed liee	Jack Pine	-			
1 Otomal 1	17. Marila anda 1		1	PRESCRIPTION	d accid acc				
		LU"DBH OT	larger to) leave for mast an	a seea sou	rce. Residual BA avg. 10			
square feet. 2. Stand 99: Mark black oak 10" or larger to leave. Leave all white oak. Remove all white and red pine. Residual BA avg. 60 square feet.									
					nd seed so	ource. Remove all other			
_	s. Residual	-	-						
					. Do not	remove any regeneration			
under 2" DBH. Residual BA avg. 10 square feet. 5.									
6.									
Access See n	map.								
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK						ESTIMATED DATE			
CONTRACT WORK CAN BEGIN									
		Date:							
CONTRACT W	ORK MUST BE C	OMPLETE	DBY Date 0	9/01/2009					
1 of 4 R4038 (Rev. 02/27/2008)									
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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		Blue	Other:						
Sale boundary		□ ⊠ Red	Other:						
Sale cutting unit		Yellow	Other:						
Stand type line		🗌 🛛 🖾 Red	Other:						
Exclusions to mark and why Standards for marking lines against private land									
1)Private boundary trees should be marked with blue paint forming a "V" at DBH, with the "V" facing into the sale area.									
AREA CALCULATION									
UNIT	METHOD		STANDARD						
Sale	GPS 🗌 String Ch	ain 🗌 Other							
Payment Unit	GPS String Chain Other								
Stand Special Instructions:	🖾 GPS 🗌 String Ch	ain Other							
1) GPS units must be compatible with ArcView or Pathfinder software. A CD of the traverse shapefile (.shp) and/or corrected file (.cor) must be supplied to the DNR office. Alternatives to the CD include emailing the file(s) or providing the office with a flash drive.									
TIMBER CRUISING SPECIFICATIONS									
Required Basal Area									
Cruise Line Direction									
	5								
CRUISII	NG UNITS	NUMBER OF PLOTS PER AC	RE SPACING (CHAINS)						
All		1	3 X 3						
			х						
			X						
			Х						
	OF CRUISE POINTS	53							
Cruise Special Instructions: 1) Cruise all sawlogs to a 8" top (DIB), and all pulpwood to a 4.0"top (DIB). Point sample method crusing for all products and species.									
Unless otherwise specifi	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): Stands 17, 102, and 214: 10 (Minimum 0 to Maximum 20) Stand 99: 60 (Minimum 50 to Maximum 70)									
TREA	ſMENT	NUMBER	SIZE						
Regeneration Gaps Per Acro Girdled Trees Per Acre	9								
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	\boxtimes		Green Other						
Trees marked to cut			Orange Other						
		TENSITIES							
SPECIES /	PRODUCT	RATIO							
		1:							
		1: 1:							
		1 :							
 Stand/boundary trees shall be marked red at DBH with a "V" that is visible on 3 sides and the point of the "V" facing the sale area. Corners within the sale should be marked with 3 well defined vertical "V"'s. Mark leave trees green at DBH with a slash on two sides (that is visible from all sides), and a stump mark. See appendix for further instructions. 									
 Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit. <u>RESTRICTIONS</u> Forest, Mineral and Fire Management Division must to be able to identify who did what on the timber sale. The contractor may not have more than two markers in one payment unit without prior approval. Each marker should have an assigned area to mark (not strips). 									
 Call Cheryl Nelson at (231) 745 - 4651, ext. 6942, to make arrangements for paint. Paint will be supplied from the Baldwin Field Office. Contractor's work schedule must coincide with the DNR work schedule for paint supply. The DNR will not be available on weekends or evenings. DELIVERABLES A list of names that marked or cruised each payment unit. A summary of paint used (in quarts). Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets. GPS files for any GPS work. 									

C26 Small Pieces – Contractor Appendix

When establishing Paint Lines

- Avoid using dead or badly damaged trees- boundary trees must last for the duration of the timber sale Up to 5-6 years.
- Avoid using small (fast growing) stems and those exposed to direct sunlight.
- Marking must be done in dry weather and when the trees are not wet.
- Paint the boundary line in such a way that it can be seen from the inside of the sale as well when walking along the line from either direction.
- Lines should be four and a half feet above the base of the tree.

GPS Requirements

- •
- PDOP mask must be less then or equal to 8.
- SNR setting must be less then or equal to 4.
- The GPS must be set to record data with a minimum of 4 satellites.
- Sale boundaries must be recorded as an area feature not a line.
- The GPS must determine area to tenths of an acre.

When Registered Corners or Witness Trees Are Discovered

- Any wooden posts encountered at corners must be painted/protected.
- Bearing and/or witness trees discovered during the course of sale preparation must be protected this
 can be accomplished by painting a ring completely around the tree at 4-6 feet above the ground.
- Please report corner condition to the local contact.

When Cruising

- Residual basal area must be recorded.
- Plot centers must be marked on cruise map with a scale of 1:15840 or larger (i.e., 1:7920).
- Plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with 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.