TIMBER SALE PRESCRIPTION

	GENERAL								
Date Forest, Mineral and Fir					-	ement Unit			
	0/18/2009 Gladwin Management Unit imber Sale Number (if applicable) Sale Name (or prescription name					2)			
73-008-10-01				Highlands Oak					
	LOCAL CONTACT								
Name									
Mike Hanley Email Address	Mike Hanley (517) 243-2028 Email Address EAX								
hanleym@michi	gan.gov			(989) 426-1454					
Map of Pro									
Map of Project Area Attached									
E1/2 of the SW1	LEGAL DESCRIPTION E1/2 of the SW1/4 and the SE ¼ of Sec 22 and also the SW ¼ of the NW1/4 of Sec 27 and also the W 1/2 of Sec 34 of T18N R02E								
Year of Entry: 2	-	. ,		mber(s): 14, 25, 33, 60					
	THIS	TIMBER S	ALE CONTRA	CT IS BASED ON THE FO	OLLOWING	ACREAGE			
Estimated Acre	es: 120 Sour	ce: 🗌 OI	🗌 GPS	Other IFMAP					
Payment will be r	nade on the basis	of these e	stimated acres.						
				TMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT		MANAGEMENT OBJECTIVE			
14	O8	60	100	Shelterwood		Mixed Oak			
25	O8	16	40	Seed Tree w/ reserves		Aspen/Oak			
33	R6	12	160	Thinning		Red Piine			
60	07	10	30	Seed Tree w/ reserves		Mixed Oak			
79	O9	22	90	Shelterwood w/reserves		Mixed Oak			
				PRESCRIPTION					
 Stand 14: Mark to leave with green paint one Jack Pine per acre and all Red Pine, White Pine and White Oak. Mark additional Oak to achieve a total for all species of 20 BA/AC. Mark to leave with green paint additional trees in the vicinity of campsites. Campsite locations and specifics will be identified during pre work meeting. Stand 25: Mark to leave with green paint all White Oak and White Pine. Mark additional large Oak to reach total residual of 10 BA/AC. Mark to leave with green paint any trees in vicinity of campsites. Stand 33: Mark to cut with Orange paint, regardless of species, to create 20 foot wide rows with 40 feet between rows. Target 110 BA/AC. All trees within rows must be marked. Stand 60: Mark to leave with green paint 10 BA/AC of best super canopy Oak. Stand 79: Mark to leave with green paint a total of 40 BA/AC of best, mature trees. Favor the retention of Red Oak, then White Oak. All Red Pine are to be left but not marked. Access: Via Grim Road, Center Fireline Trail and various state two tracks. 									
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK					ESTIMATED DATE				
None									
CONTRACT WORK CAN BEGIN Immediately Date: CONTRACT WORK MUST BE COMPLETED BY Date 07/31/2010									

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		\square		Other:					
Special Instructions for paint line work: See attached map for locations and colors of lines to be marked. Standards for marking lines against private land: N/A									
		AREA CALCUL	ΑΤΙΟΝ						
☐ This is included	l in the bid 🗌 This is no	ot included in the							
UNIT	METHOD			STANDARD					
Sale	GPS String Ch	ain 🗌 Other		PDOP ≤ 3					
Payment Unit	GPS String Ch			PDOP ≤ 3					
Stand	GPS String Ch								
copy of each stand printed at a scale of 1:15840. See map for location and color of lines to be GPS'd.									
		BER CRUISING SPI							
This is included	l in the bid 🗌 This is no	ot included in the	bid						
Required Basal Are	ea Factor: 🖂 10 🛛 2	0							
Cruise Line Directi	ons North–South or East-W	est							
	SING UNITS	NUMBER OF PLC	DIS PER ACRE						
Stands 14, 25, 33, 60) and 79	1		Evenly Spaced					
	TOTAL NUMBER OF CRUISE POINTS 120 (approximately) Cruise Special Instructions: 120 (approximately)								
 Total number of cruise points is estimate, based on estimated acres. Actual number should be based on 1 plot per acre, for acreage determined by GPS. ALL CRUISE POINTS MUST SHOW RESIDUAL BA. Contractor MUST show plot locations for each stand on their GPS stand boundary map. Plot locations do NOT need to be GPS'd. Plot center locations must be marked on the ground and at eye level with brightly colored ribbon. Imagery and shapefile information for Solo as well as TCruise cruising template must be made availlable upon request. It is preferred that contractor use DNR tally sheets. Contractor may use their own tally sheets, with approval by Gladwin Forest Management Unit. 									
Uniess otherwise spec	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 Residua Stand 14: 20 (Minimum 10 to Stand 25: 10 (Minimum 0 to N) Stand 33: 110 (Minimum 100 fo N) Stand 60: 10 (Minimum 0 to N) Stand 79: 40 (Minimum 30 to N)	Maximum <u>30</u>) Maximum <u>20</u>) to Maximum <u>120</u>) Maximum <u>20</u>)							
TRE	EATMENT	NUMBER	SIZE					
Regeneration Gaps Per Acre Girdled Trees Per Acre	;	N/A N/A	N/A N/A					
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB					
Sawlogs	Sawlogs Slash visible from all sides		8" Diameter Class					
Sawbolts								
Pulpwood	Slash visible from all sides	4.6" Diameter Class	4" Diameter Class					
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR					
Trees marked to leave	\boxtimes		Green Other					
Trees marked to cut	\boxtimes		⊠ Orange □ Other					
	TALLY INTENS	ITIES						
N/A SPECIE	S / PRODUCT	RATIO						
	<u></u>	1:	<u> </u>					
		1 :						
		1 :						
SPECIAL MARKING INSTRUCTIONS See individual stand prescriptions for retention details. Contractor must GPS leave islands when applicable. Implementation of the retention guidelines will be discussed on a stand by stand basis at the pre work meeting.								
 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). 								
PAINT								

- 1. Call Mike Hanley at (517) 243 2028, to make arrangements for paint.
- 2. Paint will be supplied from Gladwin 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.