



TIMBER SALE PRESCRIPTION

GENERAL

Date 10/18/2009	Forest, Mineral and Fire Management Unit Gladwin Management Unit
Timber Sale Number (if applicable) 73-007-10-01	Sale Name (or prescription name) Plains Creek

LOCAL CONTACT

Name Mike Hanley	Telephone (517) 243-2028
Email Address hanleym@michigan.gov	FAX (989) 426-1454

Map of Project Area Attached

LEGAL DESCRIPTION

W1/2 of the SW1/4 of Sec 3 and also the NW 1/4 of Sec 4 of T19N R05E and also the S1/2 of the SW1/4 and the SE1/4 of the SE1/4 of the NE1/4 and also the SE1/4 of Sec 33 of T20N R05E

Year of Entry: 2010 Compartment(s): 135 Stand Number(s): 32, 34, 37, 38, 54 & 76

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 202 Source: OI GPS Other IFMAP

Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
32	E9	31	120	Selection	Swamp Hardwoods
34	O9	19	90	Seed Tree w/ Reserves	Mixed Oak
37	M8	64	40	Seed Tree w/ Reserves	Upland Hardwoods
38	O8	29	40	Seed Tree w/ Reserves	Mixed Oak
54	M8	29	60	Seed Tree w/ Reserves	Upland Hardwoods
76	O8	30	40	Seed Tree w/ Reserves	Mixed Oak

PRESCRIPTION

- **Stand 32:** Mark to cut with orange paint, retaining 80 BA/AC. Favor the removal of mature / dominant Aspen, Red Maple and Ash.
- **Stand 34, 38 & 76:** Mark to leave 20 BA/AC with green paint. Favor the retention of Oak, but also include a mix of other species as well to maintain diversity. Mark to leave super canopy trees and soft snags at a rate of no more than one tree per acre.
- **Stand 37:** Mark to leave 20 BA/AC with green paint. Favor the retention of Oak but also include some Pine and other species.
- **Stand 54:** Aspen Removal. Cruise but do not mark Aspen. Mark other species when needed to leave 20 BA/AC. Use green paint. Favor the retention of Oak but also include some Pine and other species.
- **Access:** Via Black Road, Tyler Plains Road and various state two tracks.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Blue boundary line in stand 76 will be painted by DNR staff	4/01/10

CONTRACT WORK CAN BEGIN

Immediately for stands 32, 34, 37, 38, and 54 Date: 4/1/10 for stand 76

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	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Red	<input type="checkbox"/> Other:

Special Instructions for paint line work: Yellow marks for cutting units shall be visible from all sides of the trees. See attached map for locations and colors of lines to be marked.

DNR staff will paint boundary in stand 76 boundary prior to contract work.

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	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	HDOP ≤ 3
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	HDOP ≤ 3
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

Contractor must GPS all stands, payment units, and/or retention islands separately. Contractor must also provide a GPS file and hard copy of each stand printed at a scale of 1:15840. See map for location and color of lines to be GPS'd.

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 North-South or East-West

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stands 32, 34, 37, 38, 54 & 76	1	Evenly Spaced
TOTAL NUMBER OF CRUISE POINTS	202 (approximately)	

Cruise Special Instructions:

- 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.

It is preferred that contractor use DNR tally sheets. Contractor may use their own tally sheets, with approval by Gladwin Forest Management Unit.

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):

Stand 32: 80 (Minimum 70 to Maximum 90)

Stand 34, 37, 38, 54, and 76: 20 (Minimum 10 to Maximum 30)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash visible from all sides	10" Diameter Class	8" Diameter Class
Sawbolts			
Pulpwood	Slash visible from all sides	5" Diameter Class	4" Diameter Class

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
N/A	1 :
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

For all stands Michigan DNR retention guidelines must be followed. 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.

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 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.