



# TIMBER SALE PRESCRIPTION

## GENERAL

Date 3/20/2009	Forest, Mineral and Fire Management Unit NEWBERRY
Timber Sale Number (if applicable)	Sale Name (or prescription name) C025 PHASE II RP PROJECT

## LOCAL CONTACT

Name KEITH MAGNUSSON	Telephone (906) 293 - 3293ex4745
Email Address MAGNUSSK@MICHIGAN.GOV	FAX (906) 293 - 8530

Map of Project Area Attached

## LEGAL DESCRIPTION

T49N R10W Section(s) 16 Description S1/2NW, S1/2NE, N1/2SW, SWSW, SE1/4

Year of Entry: 2003 Compartment(s):25 Stand Number(s): 30, 37, 38, 50, 51

## THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 328 Source:  OI  GPS  Other \_\_\_\_\_

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

## TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
30	R5	38	50	SHELTERWOOD SEED	RED PINE
37	R6	18	120	SHELTERWOOD SEED	RED PINE
38	R8	70	70	SHELTERWOOD SEED	RED PINE
50	R9	162	90	SHELTERWOOD SEED	RED PINE
51	R5	40	50	SHELTERWOOD SEED	RED PINE

## PRESCRIPTION

1. Establish all paint lines as indicated on the attached map.
2. All paint lines must be located using a GPS in accordance with the sale preparation contract.
3. Cruise all stands according to specifications listed in the C025 PhaseII Contractors Appendix timber marking specifications, and specific details obtained at the pre-work meeting.
4. There will be old red lines in Units 3-8 because of previous timber sales.
5. An ORV trail goes through Units 6-8, when marking do not paint trees with ORV confidence markers.
6. Do not mark any oak.

**Access** Stand is approximately 25 miles north of Newberry. It can e accessed by Co Rd 410. Follow inventory maps and photos.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
N/A	

## CONTRACT WORK CAN BEGIN

Immediately  Date:

**CONTRACT WORK MUST BE COMPLETED BY** Date 08/01/2009

**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 type="checkbox"/> Yellow	<input checked="" type="checkbox"/> Other: GREEN
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

**Exclusions to mark and why**

N/A, small residual trees or the reproduction will be used as retention for the stand.

**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	SEE CONTRACT
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	SEE CONTRACT
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

**Special Instructions:**

GPS all paint lines. Area must be determined for each individual unit using a GPS unit consistent with contract specifications. GPS files must be compatible with ArcView or Pathfinder office software and all GPS files must be sent to the local contact by CD or e-mail.

**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**

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
		X
		X
		X
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>		

**Cruise Special Instructions:**

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):** 30 (Minimum 20 to Maximum 40)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	"X" or "/" per 8 foot	12 inches	10 inches
Sawbolts	n/a	n/a	n/a
Pulpwood		6 inches	4 inches

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

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
Sawlogs	1 : 1
pulpwood	1 : 20
	1 :
	1 :

**SPECIAL MARKING INSTRUCTIONS**

Stands 37 and 50 have "pockets" of red pine, making the average BA hard to estimate. See C025 Phase II RP Contractors appendix

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 Keith Magnusson at (906) 293 - 3293 ext 4745, to make arrangements for paint.
2. Paint will be supplied from the Newberry 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.

**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).
- Favor the use of reserved species such as white birch or oak species.
- Avoid using small (fast-growing) stems and those exposed to direct sunlight.
- There are old unit and boundary lines. Where applicable they may be used again.

**When Registered Corners or Witness Trees are discovered:**

- Any wooden posts encountered at corners must also 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 ground level with either red paint (corner surrounded by state lands) or blue paint (corner on private property boundary line). In addition, tying ribbon on these trees helps alert loggers to their presence. Do not mark any trees for harvest if cutting them is likely to result in damage to corner monuments and/or bearing trees.
- Please report the condition of all corners, posts and bearing trees to the LCA.

**When marking, prioritize selection of trees to be cut in the following order:**

- Data must be recorded so volume can be determined by unit. All data must be summarized by species or species grouping by payment unit.
- Remove high-risk and poor quality trees.
- Maintain target basal area.
- The management objective is a shelterwood-seed cut, lowering the basal area to promote natural red pine regeneration and to more evenly space residual trees.

**Reserved Species:**

- Leave some large white birch seed trees. Avoid marking other trees if harvesting them is likely to result in damage to other reserved species.
- Do not mark any trees with the ORV confidence markers on them.

The contractor should contact Keith Magnusson (LCA), at the Newberry Field Office, (906) 293-3293 ext 4745. Approximately 1 week prior to beginning work, the contractor will notify the LCA to arrange an on-site meeting to discuss the details of these prescriptions. Paperwork should be completed and all of the necessary reports submitted to the Unit secretary as soon as possible after the fieldwork is complete.