



TIMBER SALE PRESCRIPTION

GENERAL

Date 03/23/2009	Forest, Mineral and Fire Management Unit Cadillac FMU
Timber Sale Number (if applicable) 63-026-09-01	Sale Name (or prescription name) C31 Oak

LOCAL CONTACT

Name Cheryl Nelson	Telephone (231) 745 - 4651 Ext. 6942
Email Address nelsonca@michigan.gov	FAX (231) 745 - 8743

Map of Project Area Attached

LEGAL DESCRIPTION

T18N R09W Section(s) 1, 12 Description See Map

Year of Entry: 2009 Compartment(s):31 Stand Number(s): 10, 19, 22

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 214 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
10	Mixed Upland Deciduous	42	140-170	Seed Tree with Reserves	Mixed Upland Deciduous
19	Mixed Upland Deciduous	102	140-170	Seed Tree with Reserves	Mixed Upland Deciduous
22-Seed Tree	Red Oak	37	50-80	Seed Tree	Red Oak
22-Shelterwood	Red Oak	33	50-80	Shelterwood	Red Oak

PRESCRIPTION

1. **Stand 10:** Cut all red maple and sassafras. Mark oak to leave, avg. a BA of 30. Mark quality sugar maple to keep. Retention will be in the form of 2 acres left untreated out of the stand's original 44 acres. Focus these two acres along Cedar Road.
2. **Stand 19:** Cut all aspen and red maple. Clearcut in aspen zones. Thin oak to an avg. BA of 40. Create regeneration gaps where possible. Mark wolfy or large canopied oaks to leave for mast. Retention will be in the form of 6 acres left untreated out of the stand's original 108 acres.
3. **Stand 22-Seed Tree:** Mark to leave oak targeting an avg. BA of 30. Cut all aspen and red maple. Mark to leave higher quality beech and black cherry. Retention will be left in the form of 1 acre left untreated out of the stand's original 38 acres.
4. **Stand 22-Shelterwood:** Mark to leave oak targeting an avg. BA of 40. Cut all aspen and red maple. Mark to leave higher quality beech and black cherry. Retention will be left in the form of 1 acre left untreated out of the stand's original 34 acres.

Access: County and forest roads. See map.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 09/01/2009

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 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 type="checkbox"/>	<input type="checkbox"/> Red	<input type="checkbox"/> Other:

Exclusions to mark and why

Standards for marking lines against private land

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

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:

Cruise Line Directions

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
All	1	3 X 3
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

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): Dependent on stand (Minimum _____ to Maximum _____)

TREATMENT	NUMBER	SIZE	
Regeneration Gaps Per Acre Girdled Trees Per Acre	2	30 feet	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs		10.0 inches	8.0 inches
Sawbolts			
Pulpwood		4.6 inches	4.0 inches

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
	1 :
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

- 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.
- 2) Paint leave trees green at DBH with a slash on two sides (that is visible from all sides), and a stump mark.
- 3) Paint cut trees orange 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.

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 Cheryl Nelson at (231) 745 - 4651, ext. 6942, to make arrangements for paint.
2. Paint will be supplied from the Baldwin 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.

C31 Oak – 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.

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.