



TIMBER SALE PRESCRIPTION

GENERAL

Date 1/13/2011	Forest, Mineral and Fire Management Unit Cadillac
Timber Sale Number (if applicable) 63-019-11-01	Sale Name (or prescription name) C21 Oak and Aspen

LOCAL CONTACT

Name Cheryl Nelson	Telephone (231) 745 - 4651 ext. 6942
Email Address Nelsonc6@michigan.gov	FAX (231) 745 - 8743

Map of Project Area Attached

LEGAL DESCRIPTION

T18N R12W Section(s) 11 Description w 1/2

Year of Entry: 2005 Compartment(s):21 Stand Number(s): 42, 43, 44, 47

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 196 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
42	O9	53	130	Thinning	Oak
43	O9	33	110	Shelterwood	Oak
44	A9	14	180	Final Harvest	Aspen
47	O9	96	130	Thinning	Oak

PRESCRIPTION

1. Stand 42: Remove all aspen and red maple. Expand aspen clones where applicable. Target a residual oak BA of 40 SF.
2. Stand 43: Remove all aspen and red maple. Expand aspen clones where applicable. Target a residual oak BA of 40 SF.
3. Stand 44: Final Harvest. Where applicable leave 20 BA of vigorous oak for retention.
4. Stand 47: Remove all aspen and red maple. Expand aspen clones where applicable. Target a residual oak BA of 40 SF.

Access: Access to these stands will be from Kings Highway.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
All private lines will be painted by the DNR.	May 1, 2010

CONTRACT WORK CAN BEGIN

Immediately Date: 5/01/2011

CONTRACT WORK MUST BE COMPLETED BY Date 8/31/2011

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

Cruise all sawlogs to a 9.0" top (DOB), and all pulpwood to a 4.5" top (DOB).

Point sample method for all products and species.

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 42, 43, and 47: 40 (Minimum 30 to Maximum 50)

Stand 44: 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			
Sawbolts			
Pulpwood			

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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Orange <input type="checkbox"/> Other

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

SPECIAL MARKING INSTRUCTIONS

1: In all stands, boundary trees shall be marked red at DBH with a "V" that is visible from three sides and the point of the "V" facing the sale area. Corners within the sale area should be marked with three well defined vertical "V"'s.

2: In all stands, paint leave trees green with rings or slashes that are visible from all sides. Stump mark all green marked trees.

Also see attached 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 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.

C21 Oak and Aspen – Contractor Appendix

When Establishing Paint Lines

- Avoid using dead or badly damaged trees – boundary trees must last for the duration of the timber sale which could be 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 as when walking along the line from either direction.
- Lines should be four and a half feet about the base of the tree.
- 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.

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.