



TIMBER SALE PRESCRIPTION

GENERAL

Date 10-19-2011	Forest, Mineral and Fire Management Unit Shingleton
Timber Sale Number (if applicable)	Sale Name (or prescription name) C187 Contract Hardwoods

LOCAL CONTACT

Name Robert Burnham	Telephone (906) 452 - 6227 x240
Email Address BurnhamR2@Michigan.gov	FAX (906) 452 - 6584

Map of Project Area Attached

LEGAL DESCRIPTION

T46N R17W Section(s) 11, 14, 23 Description 11-W1/2, SESW 14-S1/2NE1/4, SE1/4, NENW 23-N1/2NE1/4

Year of Entry: 2012 Compartment(s):187 Stand Number(s): 20, 22, 29, 45

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 231 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
20	M6	63	81-110	Selection	Northern Hardwoods
22	M6	16	81-110	Selection	Northern Hardwoods
29	M9	19	111-140	Selection	Northern Hardwoods
45	M9	133	111-140	Selection	Northern Hardwoods

PRESCRIPTION

Stands 20,22,29 and 45:

1. Mark all stands according to specifications listed in the C187 Contract Hardwoods Prescription Appendix, timber marking specifications, and specific details obtained at the pre-work meeting.
2. Cruise all stands according to specifications listed in the C187 Contract Hardwoods Prescription Appendix, timber cruising specifications, and specific details obtained at the pre-work meeting.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK

ESTIMATED DATE

All timber sale boundary lines, including payment unit lines	Completed October 2011
Area calculation	Completed October 2011

CONTRACT WORK CAN BEGIN

Immediately Date: _____

CONTRACT WORK MUST BE COMPLETED BY Date **August 1, 2012**

PAINT LINE WORK This is included in the bid **XX 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"/>	X	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input type="checkbox"/>	X	<input type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	X	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/> Other:

AREA CALCULATION This is included in the bid **XX This is not included in the bid**

UNIT	METHOD	STANDARD
Sale	<input 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	

TIMBER CRUISING SPECIFICATIONS**XX This is included in the bid** This is not included in the bid**Required Basal Area Factor: XX 10** 20 Other:**Cruise Line Directions** East-West and North-South

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 20, Units 1 & 2	0.833	3 X 4
Stand 22, Unit 3	1.111	3 X 3
Stand 29, Unit 4	1.111	3 X 3
Stand 45, Units 5 - 9	0.625	4 X 4
TOTAL NUMBER OF CRUISE POINTS	175	

Cruise Special Instructions:

- Each unit must be recorded on a separate cruise card so volume can be determined by unit.
- Each cruise plot must be identified on the ground. A map showing the location of cruise plots must be turned in. The map scale must be 1:15840.
- Residual BA by species must be tallied at each cruise plot, including hemlock, white pine, and cedar.
- Do not cruise sawlog trees marked with an "X." There will be a 100% tally on log trees marked with an "X".
- Pulpwood species grouping:
 - Mixed hardwood pulp (maple, birch, ash, basswood, ironwood and cherry pulpwood)
 - All beech must be tallied separately
 - Mixed aspen pulpwood (quaking, bigtooth and balsam poplar)
 - All other trees must be cruised by species, including beech.

Unless otherwise specified, all tally and cruise sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

TIMBER MARKING SPECIFICATIONS

XX This is included in the bid This is not included in the bid

XX Precise specifications to be delineated at pre-work meeting with DNR staff

Total Merchantable Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90)

TREATMENT	NUMBER	SIZE
Regeneration Gaps Per Acre	1	50-75'
Girdled Trees Per Acre	N/A	N/A

PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	'X' on 2 opposite sides and 6' above ground level, plus one 3" dot per 8' log	11.1"	10.0"
Sawbolts			
Pulpwood	Diagonal slash on 2 opposite sides, 6' above ground level	4.6"	4"

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

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
All Sawlogs	1 : 1, by species and unit
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

- Additional pulpwood volume larger than 10 inches, top DIB, occurring in sawlog trees must be recorded on tally cards supplied by the Local Contact.
- Avoid marking during wet weather conditions, or when tree boles are damp. Paint must last for the duration of the timber sale.
- Each unit must be tallied and summarized separately.

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 Robert Tylka at (906) 452 - 6227 x241, to make arrangements for paint.
2. Paint will be supplied from the Shingleton 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 & cruise sheets.
4. Cruise map(s) showing the locations of all cruise plots in each payment unit.

COMPARTMENT 187 CONTRACTORS TIMBER SALE PRESCRIPTION APPENDIX

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 local contact.

Stand(s) 20,22,29 & 45: Units 1 thru 9

Management Objective: All Aged Northern Hardwoods (Mark to Cut)

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

1. Release suitable crop trees. (Refer to The Complete Marker for crop tree specifications.)
2. When appropriate, try to increase the number of lesser occurring species such as yellow birch, hemlock and white pine. Open up the stand near cherry, yellow birch and hemlock for reproduction. The local contact can provide an explanation of this priority.
3. Retain a component of beech where present. Leave some large wolfy trees.
4. Remove high-risk and poor quality trees.
5. Apply beech bark disease guidelines as appropriate. The local contact can supply these guidelines.
6. Maintain target basal area.
7. Maintain all species diversity.

Reserved Species:

- No hemlock, white pine, or cedar can be marked. Avoid marking other trees if harvesting them is likely to result in damage to these reserved species.
- Marking of infrequently occurring species should be avoided. Consult the local contact for clarification.
- Leave 2-4 large, live cull trees per acre for den trees and soft snag production. Reserved tree species may also be used for this purpose. These should be well distributed.
- Do not mark within 100' of any raptor nest trees. Report these to the local contact as soon as possible and directions will be given at that time.

The contractor should contact Robert Burnham, Unit Manager, at the Shingleton Field Office, PO Box 67, M-28, Shingleton, MI 49884 (906) 452-6227 x240 once the contract is awarded. Approximately 1-2 weeks prior to beginning work, the contractor should also contact the DNR's local contract administrator (Robert Tylka, 906-452-6227 x241) 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.