



TIMBER SALE PRESCRIPTION

GENERAL	
Date 1/13/09	Forest, Mineral and Fire Management Unit SHINGLETON
Timber Sale Number (if applicable)	Sale Name (or prescription name) C106/111 PHASE II RP PROJECT

LOCAL CONTACT	
Name JEFF STAMPFLY	Telephone (906) 452 - 6227ext240
Email Address STAMPFLJ@MICHIGAN.GOV	FAX (906) 452 - 6584

Map of Project Area Attached

LEGAL DESCRIPTION	
T46N R13W Section(s) 1-NW1/4 2-N1/2NE, SENE	Description 47N 13W SEC 25-SWNE, SWNW 26-NWNE 35-NESW, NWSE
Year of Entry: 2003 2004	Compartment(s):106 111 Stand Number(s): 9, 41, 42, 48, 49, 61-64 4, 5, 401, 403

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 267 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
C106- 9	R6	72	80	FINAL HARVEST	GRASS
C106- 41, 42	R6	21, 11	80, 150	FINAL HARVEST	GRASS
C106- 48, 49	R6	4, 5	170, 110	FINAL HARVEST	GRASS
C106- 61-66	R6	30	80, 120	FINAL HARVEST	GRASS (std acres 4, 4, 5, 5, 6, 6)
C111- 4, 5	R6/R5	9, 26	80, 60	FINAL HARVEST	RED PINE
C111-401, 403	G	54, 34	20	FINAL HARVEST	RED PINE

PRESCRIPTION
<ol style="list-style-type: none"> 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 C106/111 Phase II Contractors 4. Appendix, timber cruising specifications, and specific details obtained at the pre-work meeting. 5. 6. 7. 8. 9. 10. <p>Access From M-77/M-28 intersection go north 5.5 miles to the Danaher Plains Road. Turn east and go about 2 miles to reach unit 5.</p>

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 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

There will be a retention area as shown on the attached map. Retention areas should be excluded from the sale area by red lines.

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	See Contract

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 East - West

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Units 1, 2, 5, 7	1.1	3 X 3
Units 3, 4	1.2	3 X 4
Unit 6	1.6	4 X 4
		X
TOTAL NUMBER OF CRUISE POINTS	** 225	

Cruise Special Instructions:

1) Each unit must be recorded on a separate cruise card so volume can be determined by unit. 2) Each cruise plot must be identified on the ground. A map showing the location of these cruise plots must be turned in. Scale on map must be 1:15840. 3) Residual basal area by species must be tallied at each cruise plot. Borderline residual trees do not have to be measured, but every other borderline residual tree should be counted. 4) Species grouping: mixed hardwood pulpwood (maple, beech, and cherry pulpwood) and mixed aspen pulpwood (quaking & bigtooth). All other trees must be cruised by species. 5) No hemlock, oak will be cut. These species should be counted as residual basal area. **Cruise plots may decrease/increase depending on actual GPS acres.

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): _____ (Minimum _____ to Maximum _____)

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

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 Jeff Stampfly at (906) 452 - 6227 ext 240, to make arrangements for paint.
2. Paint will be supplied from Shingleton.
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.

Compartment 106/111 Phase II Contract TIMBER SALE PRESCRIPTION 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).
- Favor the use of reserved species such as oak.
- Avoid using small (fast-growing) stems and those exposed to direct sunlight.

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 Cruising:

- Data must be recorded so volume can be determined by Unit. If a stand is split into 2 or more payment units, each unit must be recorded separately. In addition, all data must be summarized by species or species grouping by payment unit.
- Within Units 1-7 cruise all species that will yield one or more 100"pulpwood sticks with a minimum top diameter of four (4) inches DIB. Residual basal area must be recorded at each plot by species. The Shingleton Unit does not separate sawlog products out of balsam fir, aspen, spruce or jack pine. Unless otherwise noted, cruise all species of sawlogs and pulpwood separately, cruise sawlog products to (10) inches DIB. The LCA will advise of species grouping at the on-site discussion.
- Plot centers must be marked according to contract specifications and correspond to a legible 1:15840 scale cruise map. Cruise specifications may be altered as necessary by the LCA.

Reserved Species:

- No oak or hemlock will be cut. Avoid marking other trees if harvesting them is likely to result in damage to this reserved species.
- Report the discovery of any raptor nest trees to the LCA as soon as possible and directions will be given at that time.

The contractor should contact Jeff Stampfly, Unit Manager, at the Shingleton Field Office, PO Box 67, M-28, Shingleton, MI 49884 (906) 452-6227 once the contract is awarded so a LCA can be assigned. Approximately 1 week prior to beginning work, the contractor will notify the Unit Manager or 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, this includes the corrected GPS files.