



TIMBER SALE PRESCRIPTION

GENERAL	
Date	Forest Resources Division Management Unit
9/19/2012	Gladwin Management Unit
Timber Sale Number (if applicable)	Sale Name (or prescription name)
73-002-13-01	M30 The Pines

LOCAL CONTACT	
Name	Telephone
Steven Nyhoff	(989) 426 – 9205 Ext. 7642
Email Address	FAX
nyhoffs@michigan.gov	(989) 426 - 1454

Map of Project Area Attached

LEGAL DESCRIPTION
T19N R01W Section(s) 1 & 12 Description Sec 1 S½ NE; SWSE: Sec 12 NE¼ ; NWSE; SESE
T20N R01W Section 36 Description SWSW

Year of Entry: 2013 Compartment(s):36 Stand Number(s): 2, 3, 22, 23, 25, 34, 39, 40, and 50

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE	
Estimated Acres: 129	Source: <input checked="" type="checkbox"/> OI <input type="checkbox"/> GPS <input type="checkbox"/> Other

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

TREATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
2	R	3	125	Single Tree Selection	Red Pine
3	W	9	140	Single Tree Selection	White Pine
22	MC	15	140	Single Tree Selection	Mixed conifer
23	E	15	90	Single Tree Selection	Swamp Hardwoods
25	MD	9	130	Group Selection	White Pine
34	W	22	130	Group Selection	White Pine
39	W	10	140	Group Selection	White Pine
40	W	28	140	Shelterwood	White Pine
50	MD	18	70	Clearcut w/ reserves	Mixed Deciduous

PRESCRIPTION

- Stands 2, 3, 22, & 39: Mark stands with orange paint to remove, retaining 90 BA. When marking the stands favor the removal of trees greater than 18" DBH but to not eliminate all the larger pines.
- Stand 23: The stand is to be marked with orange paint to remove. The residual is to be variable going from 50 BA on the upland portions of the stand and 80 BA in the lowland portions. The transition from uplands to lowlands is gradual in some areas.
- Stand 25 & 34: All aspen trees are to be removed by cutting spec. so they do not need to be marked. Mark the remaining trees with orange paint to remove retaining 90 BA where needed.
- Stand 40: Mark the stand with orange paint to remove, retaining 60 BA.
- Stand 50: Mark the stand with green paint to retain 10 BA. When marking the trees favor the retention of some larger tree for mast, dens, and structural diversity.

Access Most of the stands are accessible off M-30 with only stands 2 and 3 being accessed off Kern Rd.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
All line and GPS work is to be done by DNR staff	10/31/2012

CONTRACT WORK CAN BEGIN

Immediately Date: 10/31/12

CONTRACT WORK MUST BE COMPLETED BY Date: 7/31/2013

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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input 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 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: North-South or East-West

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
All Stands	1	Evenly spaced
		x
		x
		x
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

- All cruise points must show residual BA
- Contractor must show plot locations for each stand on a map or in a shape file.
- The plot locations do not need to be GPSed
- Plot center locations must be marked on the ground and at eye level with brightly colored ribbon. Each plot center must be marked with the plot number.
- Point sample method for all puplwood products and spec removal species. All orange marked sawlog trees will have sawlogs individually tallied.

Imagery and information for Solo as well as TCruise template will be made available upon request

Unless otherwise specified, the tally sheets used must be those supplied by the Forest Resources Division 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): Varies by stand. See prescription section.

Stands 2, 3, 22, 25, 34 & 39: 90 (Minimum 80 to Maximum 100)
 Stand 23 upland portions: 50 (Minimum 40 to Maximum 60)
 Stand 23 lowland portions: 80 (Minimum 70 to Maximum 90)
 Stand 40: 60 (Minimum 50 to Maximum 70)
 Stand 50: 10 (Minimum 0 to Maximum 20)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre:			
Girdled Trees Per Acre:			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash visible from all sides	9.1"	9"
Sawbolts			
Pulpwood	Slash visible from all sides	4.5"	4.5"

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:

See individual stand prescriptions for retention and marking details.

All sawlog products not removed by spec cutting are to be dot marked and 100% tallied.

Unless otherwise specified, the tally sheets used must be those provided by the Forest Resources Division Management Unit.

RESTRICTIONS

1. Forest Resources 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 Steven Nyhoff at (989) 426 - 9205 ext 7642, to make arrangements for paint.
2. Paint will be supplied from Gladwin 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.