

TIMBER SALE PRESCRIPTION

	GENERAL								
Date		nd Fire Manage	ement Unit						
2/18/2009			Traverse Ci	Traverse City					
Timber Sale Numb			Sale Name (or pr	Sale Name (or prescription name)					
61-029-09-01 Connector Mix									
LOCAL CONTACT									
Name									
Patrick Rupp	en	80							
Email Address									
ruppenp@mich	igan.gov	53							
☑ Map of Project Area Attached									
LEGAL DESCRIPTION									
T27N R10W Section(s) 24 Description Part of section 24 nw of Consumers Power Transmission line									
Year of Entry: 2009 Compartment(s):42 Stand Number(s): 71, 74, 76									
	THIS T	TIMBER S	ALE CONTRA	CT IS BASED ON THE I	OLLOWING	ACREAGE			
Estimate I A									
Estimated Acre	es: 153 Sour	ce: 🗌 OI	⊠ GPS	Other					
Payment will be n	nade on the basis	of these e	stimated acres.						
			TREA	TMENT & OBJECTIVE					
STAND#	COVER TYPE	ACRES	ВА	TREATMENT		MANAGEMENT OBJECTIVE			
74	08	124	180-220	Shelterwood	Pine/mixe	ed deciduous			
71	A9	21	180-220	CC with reserv	Aspen/mix	nixed pine			
76	A7	8	180-220	Group selection	Aspen/pin	ne/oak.			
-					1 7 1				
				PRESCRIPTION					
 Stand 74 1.Cut all aspen, red maple. 2.Mark well formed/healthy oak to retain (40 ba. +/- 20) of retention dependent on quality and amount of residual pine. 3. Mark trees to drop for coarse woody debris in aspen pockets (1-2)/acre. 4. Leave all red and white pine-cut all jack pine. Stand 71 1. Cut all aspen and red maple. 2.Leave all pine. 3. Mark well formed healthy oak to retain (2-4/acre) as found. Mark trees to drop for coarse woody debris (1-2)/acre. Stand 76. 1. Cut all aspen and red maple. 2. Retain all pine. Mark oak for retention (40ba. +/- 20). Mark trees to drop for coarse woody debris in aspen pockets (1-2/acre) 									
Access access via county roads and two tracks. Four wheel drive vehicle may be necessary dependant on road conditions.									
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK						ESTIMATED DATE			
lines painte	d and GPS wor	ck done.				02/28/2009			
CONTRACT WORK CAN BEGIN									
CONTRACT WO	CONTRACT WORK MUST BE COMPLETED BY Date 08/30/2009								

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		PAINT LINE V	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	PAINT COLOR					
Private boundary	П	П	Blue	☐ Other:						
Sale boundary			Red	Other:						
Sale cutting unit			Yellow	Other:						
Stand type line				Other:						
Exclusions to mark and why										
Standards for marking lines	against private l	and								
		ADEA 041 0111	ATION		i					
AREA CALCULATION										
\square This is included in the bid \boxtimes This is not included in the bid										
UNIT METHO	OD			STANDARD						
Sale GP	S String Cha	ain 🗌 Other								
Payment Unit GP										
Stand GP										
Special Instructions:										
	TIMB	ER CRUISING SP	ECIFICATIONS							
☐ This is included in the bid ☐ This is not included in the bid										
Required Basal Area Factor: 🛛 10 🔲 20 🔲 Other:										
Cruise Line Directions n/a										
	·•			0040040						
CRUISING UNIT	5	NUMBER OF PLOTS PER ACRE		,	SPACING (CHAINS)					
Stand 71 19 plots		1		3.1 X 3.1						
stand 74 and 76 combined	.5	4	4.3 X 4.3							
				X						
				Х	_					
TOTAL NUMBER OF CRUIS	SE POINTS	9:	2							

Cruise Special Instructions:

Cruise plot centers must be staked with a plot-numbered ribbon and additional flagging must be hung at least 4'high around plot stake. Cruise all products after green-marking retention. Better quality red oak logs should be seperated in tally. Pin oak/low quality red oak logs will be cruised as mixed oak logs. White oak should be tallied seperately. All oak pulwood cruised as mixed oak, aspen logs cruised by species and red maple tallied separate. Aspen pulp may be cruised as mixed aspen pulpwood. Contractors using TCruise should provide .tce and .tcd files for the cruise data. If solo is also used, a waypoint file for the cruise plot centers should also be provided rather that a paper map. For contractors not using Tcruise, cruise data must be entered in to the contractor version of TSALE and data disk delivered.

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

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	HMBER MARKING	G SPECIFICATIONS			
$oxed{\boxtimes}$ This is included in the b	oid	n the bid			
☐ Precise specifications to	o be delineated at pre-work m	eeting with DNR staff			
Total Merchantable Residu	al BA (Basal Area): 40 (Minir	mum <u>20</u> to Maximum <u>60</u>)			
TREA	ATMENT	NUMBER	SIZE		
Regeneration Gaps Per Ac Girdled Trees Per Acre	re				
PRODUCT	PRODUCT MARKING SYMBOL		TOP DIB		
Sawlogs					
Sawbolts					
Pulpwood					
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR		
Trees marked to leave	es marked to leave		□ Green □ Other		
Trees marked to cut					
		TENSITIES			
SPECIES	/ PRODUCT	RATIO			
		1:			
		1:			
		1:			
		1 :			

SPECIAL MARKING INSTRUCTIONS

Most of this area is being harvested to regenerate oak and aspen and to release advanced pine regeneration. Red and White Pine will be retained and aspen, red maple, jack pine and unmarked oak cut per contract specification. Oak will be green marked for retention to produce mast and shelter pine regeneration as it grows in to stand. Oak quality is variable. Well formed/healthy oak should be retained averaging 40 ft of basal area. More oak retention will be expected where quality is good and less retention will be expected where oak is poor quality or there is a heavier pine component in canopy. Because of the variability in these stands an expanded acceptable basal area range of +/- 20 sq ft has been used. However, the above guidelines will be expected to be implemented on the ground. In larger aspen pockets 1-2 trees/acre are to be marked for coarse woody debris-drumming logs. Orange paint should be applied in X's around tree. Specific marking quidelines will be discussed with contract administrator at start of work.

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 Pat Ruppen at (231) 922 5280x6843, to make arrangements for paint.
- 2. Paint will be supplied from the Traverse City Field Office.
- 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. Cruise data for each payment unit either as .tce/.tcd files from TCruise or data disk with data entered in TSALE-contractor version.

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