



TIMBER SALE PRESCRIPTION

GENERAL

| | |
|--|--|
| Date 03-05-2008 | Forest, Mineral and Fire Management Unit Cadillac FMU |
| Timber Sale Number (if applicable) 63-014-08-01 | Sale Name (or prescription name) N. Nelson Hardwoods |

LOCAL CONTACT

| | |
|---------------------------------------|-------------------------------|
| Name Jim Malloy | Telephone (231) 824 - 9080 |
| Email Address malloyj@michigan.gov | FAX (231) 824 - 9340 |

Map of Project Area Attached

LEGAL DESCRIPTION

T24N R12W Section(s) 19, 20, 21 Description Various

Year of Entry: 2008 Compartment(s):063 Stand Number(s): 7, 17, 30, 50

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 272 Source: OI GPS Other IFMAP

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

TREATMENT & OBJECTIVE

| STAND # | COVER TYPE | ACRES | BA | TREATMENT | MANAGEMENT OBJECTIVE |
|---------|------------|-------|---------|-----------|----------------------|
| 7 | M6 | 81 | 120-140 | Thinning | Mixed N. Hardwoods |
| 17 | M6 | 139 | 120-140 | Thinning | Mixed N. Hardwoods |
| 30 | M6 | 22 | 130-150 | Thinning | Mixed N. Hardwoods |
| 50 | M6 | 30 | 120-140 | Thinning | Mixed N. Hardwoods |
| | | | | | |
| | | | | | |
| | | | | | |

PRESCRIPTION

1. For all stands: All aspen and ironwood to be removed by spec. No marking for these species
2. Mark orange to cut for all other species.
3. Reduce Stand Basal Area to 80 sqft.
4. Mark for best tree in place.
5. Leave all snags and den trees.
6. Do not mark hemlock
- 7.
- 8.
- 9.
- 10.
- 11.

Access See attached map

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
| Line work to be completed. | 04/01/2008 |
| | |
| | |

CONTRACT WORK CAN BEGIN

Immediately Date: 04/10/2008

CONTRACT WORK MUST BE COMPLETED BY Date 09/25/2008

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 checked="" type="checkbox"/> Blue | <input type="checkbox"/> Other: |
| Sale boundary | <input type="checkbox"/> | <input checked="" 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

Boundary lines to be in place by state prior to work beginning.

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:

Boundary lines to be in place by state prior to work beginning.

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 TBD at pre-work meeting

| CRUISING UNITS | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| 7 | .66 | 3 X 5 |
| 17 | .5 | 4 X 5 |
| 30 | 1 | 3 X 3 |
| 50 | 1 | 3 X 3 |
| TOTAL NUMBER OF CRUISE POINTS | 176 | |

Cruise Special Instructions:

Cruise all aspen and ironwood.
 Cruise all aspen sawlogs to an 8" (dib) top.
 Cruise all marked pulpwood that will yield at least one 8' pulp stick to a 4" (dib) top.
 All hardwood logs will be total tree tallied.
 Cruise and record residual BA at each plot.

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): 80 (Minimum 70 to Maximum 90)

| TREATMENT | | NUMBER | SIZE |
|----------------------------|----------------------|-------------|-----------|
| Regeneration Gaps Per Acre | | 1-2 | min 30 ft |
| Girdled Trees Per Acre | | n/a | n/a |
| PRODUCT | MARKING SYMBOL | MINIMUM DBH | TOP DIB |
| Sawlogs | X and dot per 8' log | 10" | 8" |
| Sawbolts | | | |
| Pulpwood | Single Slash | 5" | 4.5" |

| TYPE OF WORK | WORK TO BE DONE | NOT APPLICABLE | PAINT COLOR |
|-----------------------|-------------------------------------|-------------------------------------|--|
| Trees marked to leave | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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 |
| Hardwood Sawlogs | 1 : 1 |
| Pulpwood. See cruising specs | 1 : |
| Aspen/Ironwood See cruising specs. | 1 : |
| | 1 : |

SPECIAL MARKING INSTRUCTIONS

Follow the Guidelines in the Compleat Marker.

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 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 Jim at (231) 824 - 3591, to make arrangements for paint.
2. Paint will be supplied from Manton 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.