



TIMBER SALE PRESCRIPTION

GENERAL

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|--|---|
| Date 9/19/2010 | Forest, Mineral and Fire Management Unit Baraga |
| Timber Sale Number (if applicable) 11-013-11-01 | Sale Name (or prescription name) Shawmut Creek Hdws |

LOCAL CONTACT

| | |
|--|--------------------------------|
| Name Jason Mittlestat | Telephone (906) 353 - 6651 |
| Email Address mittlestatj@michigan.gov | FAX Number (906) 353 - 7464 |

Map of Project Area Attached

LEGAL DESCRIPTION

T52N R36W Section(s) 11 Description , 11: S1/2NE, NESW, SE

Year of Entry: 2011 Compartment(s): 32 Stand Number(s):16, 19, 21

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 188 Source: OI GPS X Other IFMAP

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

TREATMENT & OBJECTIVE

| STAND # | COVER TYPE | ACRES | BA | TREATMENT | MANAGEMENT OBJECTIVE |
|---------|------------|-------|---------|-----------|----------------------|
| 16 | M6 | 80 | 81-110 | Selection | Northern Hdwd |
| 19 | M5 | 93 | 111-140 | Selection | Northern Hdwd |
| 21 | M6 | 15 | 51-80 | Selection | Northern Hdwd |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

PRESCRIPTION

1. Mark trees to be cut. Favor the best future crop tree in place, regardless of species.
2. Payment units should approximate 40 acres. Recommend 5 units on this sale.
3. Leave den and nest trees.
4. The objective is an all age stand structure with a max diameter of 22".
5. Retain all hemlock, oak, cedar and pine unless removal is needed for operability.
6. Release oak on three sides to a residual BA of 60 sq ft.
7. Where there is more than 30 sq ft of hemlock mark down to 100 sq ft.
8. GPS all roads within the sale area. GPS corners.
9. Label sale name and unit numbers at all unit & road intersections
10. Label units when unit line is adjacent to roads. Labeling is to be done in red aerosol paint.
11. Further guidance will be discussed at presale mtg.

Access: Elm River Tower Road.

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
| | |
| | |
| | |

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date Lines by Feb. 1, 2011, Marking by September 1, 2011.

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 | X | | X Blue | <input type="checkbox"/> Other: See ** |
| Sale boundary | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Red | <input type="checkbox"/> Other: See ** |
| Sale cutting unit | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Red | <input type="checkbox"/> Other: See ** |
| 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

All lines must be flagged w/ pink ribbon, and painted so as to be visible from all vantage points along the line. At least one ribbon should be placed between each painted line tree. GPS can be used to approximate line placement, but the final line must essentially be straight, and extend corner to corner.

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:

Provide corrected GPS files compatible with Pathfinder office software or ArcView. Payment unit lines that split stands on a straight line compass bearing, should have a GPS waypoint for each end.

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

| CRUISING UNITS | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| | | X |
| | | X |
| | | X |
| | | X |
| TOTAL NUMBER OF CRUISE POINTS | | |

Cruise Special Instructions:

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

| TREATMENT | NUMBER | SIZE | |
|----------------------------|-------------------------|-------------|---------|
| Regeneration Gaps Per Acre | n/a | | |
| Girdled Trees Per Acre | n/a | | |
| PRODUCT | MARKING SYMBOL | MINIMUM DBH | |
| Sawlogs | slash on 2 sides w/dots | 10" | |
| Sawbolts | | | |
| Pulpwood | slash on 2 sides. see * | 6" | |
| PRODUCT | MARKING SYMBOL | MINIMUM DBH | TOP DIB |
| Sawlogs | slash on 2 sides w/dots | 10" | 8" |
| Sawbolts | | | |
| Pulpwood | slash on 2 sides. see * | 6" | 4" |

| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other |

TALLY INTENSITIES

| SPECIES / PRODUCT | RATIO |
|---------------------|--------|
| Hardwood pulp | 1 : 20 |
| Softwood pulp | 1 : 10 |
| Aspen (all as pulp) | 1 : 10 |
| Sawlogs | 1 : 1 |

SPECIES TO FAVOR

Oak, Hemlock, White Pine, Cedar

SPECIES TO FAVOR

SPECIAL MARKING INSTRUCTIONS Areas of predominate oak stocking occur. 30' crown release of oak on 3 sides down to 60 sq BA are required where this occurs. Avoid marking timber near any discovered mine workings, or mine shafts. Flag any discovered mine workings, and review with staff before marking continues. Put upper marks on two opposite sides of trees 6' up. The contractor must furnish the DNR with plot data showing residual BA/AC for payment units to be checked (Self Admin). This is due before The DNR checks the marking. The contractor is responsible for checking all workers on the sale. Final marking details are to be discussed at a prework conference.

* Every tally pulpwood tree should have a slash for every tallied 8' stick.

** Line marks must be at least 6' high, be flagged w/pink ribbon, and painted so as to be visible from all vantage points along the line. At least one ribbon should be placed between each painted line tree

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 Jason Middlestat at (906) 353 - 6651, to make arrangements for paint.
2. Paint will be supplied from Baraga 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.
5. Marking and Linework will be separate line items and can be paid as they are completed and approved.