



TIMBER SALE PRESCRIPTION

GENERAL

| | |
|--|---|
| Date 03/05/2008 | Forest, Mineral and Fire Management Unit Gladwin Management Unit |
| Timber Sale Number (if applicable) 73-020-08-01 | Sale Name (or prescription name) North Lee |

LOCAL CONTACT

| | |
|---------------------------------------|-----------------------------|
| Name Mike Hanley | Telephone (517) 243-2028 |
| Email Address hanleym@michigan.gov | FAX (989) 426-1454 |

Map of Project Area Attached

LEGAL DESCRIPTION

T14N R1W Section(s) 1 & 2

Year of Entry: 2008 Compartment(s): 113 Stand Number(s): 56, 58 & 86

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 179 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 |
|---------|------------|-------|----|-------------|----------------------------|
| 56 | M9 | 144 | 65 | Shelterwood | Oak |
| 58 | E9 | 22 | 95 | Selection | Lowland Maple |
| 86 | M9 | 13 | 65 | Selection | Maple, Beech, Cherry Assoc |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

PRESCRIPTION

- Stand 56:** Aspen Removal: Cruise but do not mark all Aspen. On ridges mark to cut hardwoods with orange paint retaining 20 BA/AC. In the swales: mark to cut retaining 80 BA/AC in addition within the swales mark one 60 foot diameter regeneration opening per acre. Retain all Pine and Hemlock and favor the retention of oak.
 - Stand 58:** Mark to cut with orange paint, retaining 80 BA/AC. Favor the removal of Ash.
 - Stand 86:** Aspen Removal: Cruise but do not mark all Aspen. In addition mark one 60 foot diameter regeneration opening per acre. Retain all Black Tupelo.
-
- Access:** Via Sterling Truck Trail, Center Fire Line and various state two tracks.

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
| DNR staff to run all private property lines | Complete |
| | |

CONTRACT WORK CAN BEGIN

Immediately Date: _____

CONTRACT WORK MUST BE COMPLETED BY Date 09/15/2008

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 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Red <input type="checkbox"/> Other: |

Exclusions to mark and why

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 | PDOP ≤ 7 |
| Payment Unit | <input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other | PDOP ≤ 7 |
| Stand | <input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other | PDOP ≤ 7 |

Special Instructions:

Contractor must GPS all stands and/or payment units separately. Contractor must also provide a GPS file and hard copy of each stand printed at a scale of 1:15,840. See map for location and color of lines to be GPS'd.

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) |
|--------------------------------------|--------------------------|------------------|
| Stands 56, 58 and 86 | 1 | Evenly spaced |
| | | |
| | | |
| TOTAL NUMBER OF CRUISE POINTS | 179 (approximately) | |

Cruise Special Instructions:

- Total number of cruise points is estimate, based on estimated acres. Actual number should be based on 1 plot per acre, for acreage determined by GPS.
- Contractor **MUST** show plot locations for each stand on their GPS stand boundary map. Plot locations do **NOT** need to be GPS'd.
- It is preferred that contractor use DNR tally sheets. Contractor may use their own tally sheets, with approval by Gladwin Forest Management Unit.
- For stands 56, 58 and 86 **ALL CRUISE POINTS MUST SHOW RESIDUAL BA** by species.

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): Varies by stand. See prescription section.

| TREATMENT | | NUMBER | SIZE |
|----------------------------|------------------------------|--------------------|-------------------|
| Regeneration Gaps Per Acre | | One per acre | 60 foot diameter |
| Girdled Trees Per Acre | | | |
| PRODUCT | MARKING SYMBOL | MINIMUM DBH | TOP DIB |
| Sawlogs | Slash visible from all sides | 10" Diameter Class | 8" Diameter Class |
| Sawbolts | | | |
| Pulpwood | Slash visible from all sides | 5" Diameter Class | 4" Diameter Class |

| 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 |
| N/A | 1 : |
| | 1 : |
| | 1 : |
| | 1 : |

SPECIAL MARKING INSTRUCTIONS

For all stands Michigan DNR retention guidelines must be followed. Contractor will be required to mark and GPS a minimum of 3% and a maximum of 10% of the stand area as retention. Retention may require marking leave trees with green paint, individually and/or in small groups. Implementation of the retention guidelines will be discussed on a stand by stand basis at the pre work meeting.

Stands 56 & 86: Within the 60 foot regeneration gaps all merchantable trees must be marked with orange paint for removal following the Timber Marking Specifications. The 60 foot must be measured from inside of the crowns of the trees to be left.

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 Mike Hanley at (517) 243 - 2028, 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.