



TIMBER SALE PRESCRIPTION

GENERAL

| | |
|--|--|
| Date 10/22/2010 | Forest, Mineral and Fire Management Unit Cadillac FMU |
| Timber Sale Number (if applicable) 63-007-10-01 | Sale Name (or prescription name) M-37 Pine |

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 R11W Section(s) 18 Description Section 18 NWNW SWNW NWSW NESW NENW

Year of Entry: 2010 Compartment(s):129 Stand Number(s): 02, 09cc, 09t

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 94 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 |
|---------|------------|-------|---------|-----------|----------------------|
| 2 | R9 | 53 | 140-170 | Thinning | Red Pine |
| 09cc | R6 | 32 | 140-170 | Clear-Cut | Red Pine |
| 09t | R6 | 9 | 140-170 | Thinning | Red Pine |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

PRESCRIPTION

1. In stands 09t and 02 thin pine to a residual BA of 120.
2. In stand 09cc cruise for final harvest.
3. Leave all hardwood in thinned stands unless necessary for access in marked stands.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Access See Map

| 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 07/30/2010

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

Mark each stand boundary in red paint.

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 checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other | |

Special Instructions:

Final shapefile given to the DNR needs to be in ArcView shapefile format. (*.shp)

TIMBER CRUISING SPECIFICATIONS This is included in the bid This is not included in the bidRequired Basal Area Factor: 10 20 Other:**Cruise Line Directions**

| CRUISING UNITS | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| All | 1 | 3 X 3 |
| | | X |
| | | X |
| | | X |
| TOTAL NUMBER OF CRUISE POINTS | 94 | |

Cruise Special Instructions:

Cruise all sawlogs to a 8" top, and all pulpwood to a 4.0" top (DIB). Point sample method cruising for all products and species. A 20 factor may be used to cruise in clear cut units if density is higher than 10 trees per plot (per discussion with contract administrator). Cruise all species in clear cut units.

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): 120 (Minimum 110 to Maximum 130)

| TREATMENT | | NUMBER | SIZE |
|----------------------------|----------------|-------------|---------|
| Regeneration Gaps Per Acre | | | |
| Girdled Trees Per Acre | | | |
| PRODUCT | MARKING SYMBOL | MINIMUM DBH | TOP DIB |
| Sawlogs | Single Slash | 9.1 " | 8 " |
| Sawbolts | | | |
| Pulpwood | Single Slash | 4.6 " | 4.0 " |

| 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 |
| | 1 : |
| | 1 : |
| | 1 : |
| | 1 : |

SPECIAL MARKING INSTRUCTIONS

Mark from below to remove suppressed trees and defect. Target to remove 1/3 of stand. Do not selectively mark multiple stemmed clumps; either mark them all or leave them all. Mark for best tree in place. Target even spacing of residual stand.

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 Jim at (231) 824 - 9080, 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.