



TIMBER SALE PRESCRIPTION

GENERAL

| | |
|--|--|
| Date 2/14/11 | Forest, Mineral and Fire Management Unit Cadillac FMU |
| Timber Sale Number (if applicable) 63-020-11-01 | Sale Name (or prescription name) Down the Path 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) 21, 22, 28, 27 Description Sec. 21 E1/2 SE, Sec. 22 NWSW SWSW SESW, Sec 28 NENE, Sec. 28 NWNW

Year of Entry: 2007 Compartment(s):131, 130 Stand Number(s): 64 (130), 50 (131)

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 95 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 |
|---------|------------|-------|-----|----------------|----------------------|
| 50 | R6 | 68 | 200 | Crown Thinning | Red Pine |
| 64 | R6 | 27 | 170 | Crown Thinning | Red Pine |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

PRESCRIPTION

1. Thin pine by removing defect and suppressed trees first.
2. Target residual BA of 100.
3. Do not mark hardwoods unless need for access.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.

Access See Map

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

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 08/30/2011

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

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:

Both stands may be treated as one large stand for the purposes of this contract. A shapefile compatible with ArcMap will be required to be submitted.

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) |
|--------------------------------------|--------------------------|------------------|
| All | .6 | 4 X 4 |
| | | X |
| | | X |
| | | X |
| TOTAL NUMBER OF CRUISE POINTS | ~60 | |

Cruise Special Instructions:

Cruise all sawlogs to a 9" top, and all pulpwood to a 4.5" top (DOB). Point sample method cruising for all products and 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): 100 (Minimum 90 to Maximum 110)

| TREATMENT | | NUMBER | SIZE |
|----------------------------|----------------|-------------|---------|
| Regeneration Gaps Per Acre | | N/A | |
| Girdled Trees Per Acre | | | |
| PRODUCT | MARKING SYMBOL | MINIMUM DBH | TOP DOB |
| Sawlogs | Single Slash | 9.1 " | 9 " |
| Sawbolts | | | |
| Pulpwood | Single Slash | 4.6 " | 4.5 " |

| 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 |
| All | 1 : 1 |
| | 1 : |
| | 1 : |
| | 1 : |

SPECIAL MARKING INSTRUCTIONS

Do not selectively mark within multiple-stemmed clumps; either mark them all or leave them all. Mark suppressed and poor quality trees first, then thin from above to obtain prescription BA.

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.