

Exhibit B: Planting Specifications and Inspections

I. PRESCRIPTION

A. Table 1 shows the estimated numbers of trees by species. All seedlings are Styro 8 plugs.

Table 1 Planting Details

Planting Block	Area (Acres)	Existing T/Ac	T/acre to add	# PP	# WL	# LP	# WP	# DF	# Trees to Plant	T/Ac
433 East	9.1	15	350	1,500	900	900			3,300	363
641 SE	28.7	120	200	2,700	3,000				5,700	199
641 NW	12.8	115	300	2,700	1,200				3,900	305
641 SW	5	20	350	1,800					1,800	360
A64 CRP	83	0	350	22,500		3,375		3,353	29,228	352
64-C replant	7.2	75	300		1,200	900			2,100	292
Moose Paddle	45.8	12	400		12,300	1,800	4,200		18,300	400
Evans CB13	6.1	115	300		600	675	600		1,875	307
Tensed #12	9.1	0	435		1,200	1,350	1,416		3,966	436
Tensed #13	9.5	180	120		900	450			1,350	142
Tensed #11	7.5	120	190		900	450			1,350	180
Totals:	223.8			31,200	22,200	9,900	6,216	3,353	72,869	

B. Table 2 shows herbicides prescribed and the estimated amounts to be provided and applied by the Contractor. Dose per spot shall be equivalent to 3 quarts of Atrazine and 2 quarts of glyphosate per acre and include the recommended amount of dye.

Planting Block	Area (Acres)	T/Ac to Spray	Spray Area/Ac.	Spray Area/Block	Estimated quarts needed		Trees to Spray
					Atrazine	Glyphosate	
433 East	9.1	363	0.16	1.49	4.46	2.97	3300
641 SE	28.7	320	0.14	4.13	12.40	8.27	9184
641 NW	12.8	305	0.14	1.76	5.27	3.51	3900
641 SW	5	360	0.16	0.81	2.43	1.62	1800
64-C replant	7.2	292	0.13	0.95	2.84	1.89	2100
Evans CB13	6.1	307	0.14	0.84	2.53	1.69	1875
Tensed #12	9.1	436	0.20	1.79	5.36	3.57	3966
Tensed #13	9.5	300	0.14	1.28	3.85	2.57	2850
Tensed #11	7.5	300	0.14	1.01	3.04	2.03	2250
Totals:	95.0			14.06	42.17	28.11	31,225

NOTES

5 foot diameter spot = 19.635 sq. ft. = .00045 ac.

Atrazine @ 6 pints/acre = 13.7 oz/gallon of water + 2 qts./acre of glyphosate = 14 oz/gal of water for Meter-Jet

Any treatment deemed unnecessary by the Tribe prior to application may be cancelled, such as the acreage to plant on Moose Paddle may be reduced if spring burning is not possible.

II. SPECIFICATIONS: Adapted from “Plug Seedling Handling and Planting Guidelines”, D. L. Miller and R. M. Schaefer III, Potlatch Corporation, Wood Products, Western Division, 4-25-83

A. Planting Bags.

1. Fill bags just prior to planting.
2. Moisten roots if soil mix is dry.
3. Shelter seedlings from wind and sun when filling bags.
4. Don't pack bags tightly – seedlings should pull out easily without stripping roots.
5. Do not use gas- or oil-soaked planting bags.

B. Planting Spot Selection (Microsite).

1. Plant in soil, avoiding rock, deep duff, rotten wood and compacted soil or roads.
2. Don't plant in standing water or in soil that was pushed on top of slash or brush.
3. Shade – Where possible, plant on the north or northeast side of logs, stumps, rocks or brush clumps. Where not possible, use small rocks, scalped sod or sticks to shade block the base of trees. Place shade on the downhill side of the tree on slopes over 25%. On more gentle terrain place shade on the south/southwest side of the tree.
4. Vegetation – Where possible, avoid or scalp clumps of brush, ferns or grass.
5. Animals – Avoid game and livestock trails. Do not plant in gopher tunnels.
6. Compaction – Avoid planting in compacted dozer or skidder tracks.
7. Avoid planting on top of mounds and in the bottom of ditches, gullies or trenches.
8. Specified spacing is 10 feet horizontal distance from established or planted seedlings, except in 433 East and A64, where 10 feet by 12 feet is the target spacing. Select planting spot within 20% of specified tree spacing to find a better site, so the allowable range is 8 to 14 feet.
9. Any seedling or sapling with more than half of its foliage fading (yellowish to orange in color) or with dead top shall not be considered an established tree.

C. Planting Spot Preparation.

1. Duff or litter – Scalp to mineral soil around planting hole.
2. Ashes, blackened soil – Scalp to mineral soil around planting hole.
3. Dry soil –Foot scalp to reach moist soil.
4. Grass, brush or forbs – Remove vegetation from a 1 foot square so that seedling will not come into contact with herbicide before it dries.

D. Planting.

1. Planting tools must be able to open a hole, 1 inch longer than the plug and 2 inches wide at the bottom. Root plugs shall not be trimmed or damaged by the contractor.

2. Open the planting hole near the center of the scalped planting spot.
3. The undisturbed side of hole will be less than 30 degrees from vertical, so roots do not lean.
4. Gently remove seedling from planting bag or container after the hole has been prepared. Do not wrench seedlings from bag. Remove one seedling at a time. Do not carry seedlings in hand while walking between holes.
5. Plug must be straight in the hole, with roots pointing downward and not bent at the bottom.
6. Do not plant trees in a leaning position; roots shall be oriented approximately perpendicular to the ground surface.
7. Do not twist the plug into the hole or compress the plug to fit a hole that should be dug deeper or wider.
8. Fill the hole from bottom to top, packing soil firmly to prevent air pockets around roots.
9. Keep snow, duff, rocks, ashes and dry soil from the planting hole.
10. Proper depth is between root collar and first green needles, with no exposed roots and no buried needles. Plant the top of the plug $\frac{1}{2}$ to $\frac{3}{4}$ inch below top of hole. Soil should not be mounded around the tree to compensate for a shallow hole – dig the hole deeper.
11. Planted tree should withstand a firm tug on several needles, and soil in the root zone should not be loose or densely packed.

E. Progression through Planting Blocks.

1. The number of seedlings purchased was partly based on previous survival surveys of established seedlings or saplings. The actual number of seedlings needed for any planting block may differ from the estimate due to sampling error, poor spacing or mortality since the survey. For that reason, there may be a shortage of seedlings for one or more planting blocks. Conversely, it may be possible to expand the area to be interplanted adjacent to certain planting blocks if there are extra seedlings.
2. The contractor shall manage planting crews to work from one edge to another through each planting block to achieve a clear distinction between planted and unplanted portions of the block. This will facilitate daily inspections, as well as acreage adjustments, if necessary.
3. If the area planted has been adjusted for any reason, it will be traversed by Tribal Forestry with a GPS unit to determine the actual acreage for payment.

F. Weather: Follow weather guidelines for planting from Cleary, B. D. et al, "Regenerating Oregon's Forests", 1978, Oregon State University Extension Service, Corvallis, Oregon.

G. Spot herbicide application.

1. The contractor shall provide and apply herbicide under supervision of a Professional Applicator licensed to apply pesticides in a forested environment.
2. A Meter-Jet calibrating spray attachment or equivalent method shall be used to apply herbicide with dye added to the tank mix.
3. The planting blocks shown in Table 2 on page 1 shall be treated by “shielded” spot spraying with the equivalent of 3 quarts per acre of Atrazine and 2 quarts per acre of Glyphosate to a 5 feet diameter circle around each planted seedling and existing “crop” trees. Existing “crop” trees are those of any species other than grand fir that are 2 feet tall or less and spaced approximately 10 feet from other planted or existing seedlings that are sprayed. The purpose of the “crop” tree criteria is to limit spot treatments to no more than 435 per acre and avoid spray overlap in clumps of natural regeneration.
4. The contractor shall post appropriate warning signs during the restricted entry interval and otherwise comply with Worker Protection Standards.

H. Seedling Handling, Transport and Storage at planting sites.

1. Tribal Forestry shall deliver seedlings to planting sites as scheduled by the contractor’s representative.
2. Seedlings shall be protected from weather and mechanical injury during transport and storage by careful handling of boxes, protective tarps or natural shade.
3. Seedlings shall be stored in shipping boxes until ready to be planted, and in planting bags until the planting hole is prepared.
4. Seedlings left over at the end of the day may be stored overnight in shipping boxes, sheltered from sun and wind, if they will be planted the next day. If not, they shall be returned to Tribal Forestry for cold storage.
5. After completion of a planting block or group of nearby blocks, the contractor shall return any excess seedlings, in their shipping boxes, to Tribal Forestry.
6. The contractor shall take reasonable care of shipping boxes to allow them to be returned to the nursery. All other debris, including plastic bags used to package seedlings and litter from lunches shall be removed from the planting site daily.
7. If any mold, dry roots, sour roots, frozen roots or other seedling quality concerns are found by the contractor, such seedlings shall be withheld from planting until examined by Tribal Forestry.

III. INSPECTIONS AND ACCEPTANCE: Acceptance of work and payment will be based on inspections by Tribal Forestry. Daily inspections will follow the planting crew as closely as possible, and the contractor is encouraged to observe the inspections. Copies of inspection cards shall be available to the contractor on the next work day.

A. Inspection Procedures for Planting.

1. Approximately one (1) percent of each planting block will be inspected, using circular plots, 1/100 acre or 1/50 acre in size. Plots will be located throughout the planted area on a systematic grid from a randomly located first plot. Plot centers will be located and marked on the ground with flagging. The plot number will be written on flagging near or on plot center.

2. Above Ground: Inspectors shall check all seedlings on the plot, up to the number of planting spots available. On each plot, number of planting spots, planted trees and satisfactory trees will be recorded, considering items listed below. The planting quality card contains a column labeled "DT" for dropped trees that will displace an otherwise satisfactory tree on the closest plot. A final column labeled "NR" indicates trees planted in excess of the number of planting spots that were not rated and therefore not included in the "No. of Trees" column. The specifications in Section II will be considered in determining satisfactory trees.

3. Below Ground: At least one seedling per plot will be checked below ground by carefully digging from the side until the roots are exposed. If a plot contains 5 or more seedlings, two trees will be dug for below ground inspection. Trees to be dug will start closest to plot center and proceed outward, if necessary, because no tree that is not satisfactory above ground will be examined below ground. The below ground inspection is targeted at root condition, straightness of roots and planting hole and prevention of air pockets and foreign material around roots.

B. Planting Quality: Planting quality will be calculated from totals for all plots within each completed planting block to determine acceptability. Planting Quality will be an average of the percentage of total planted trees that are satisfactory above ground and the percentage of trees examined below ground that are satisfactory.

A = Total satisfactory trees above ground,

B = Total number of trees planted (not including trees excess of planting spots),

C = Total satisfactory trees below ground,

D = Total number of trees examined below ground.

Above ground percentage = $A/B * 100$.

Below ground percentage = $C/D * 100$.

Planting quality = $(\text{Above ground percentage} + \text{Below ground percentage}) / 2$.

1. Unsatisfactory Planting: If the planting quality falls below eighty percent (80%), the contractor will be notified and ordered to improve the quality of subsequent planting. If planting quality is not improved to at least 80% within two working days, the contract may be terminated.

2. Second Inspection: If the contractor requests a second inspection of any planting block, the Tribe will inspect different plots to calculate an amended planting quality. If the amended planting quality is within 5 percentage points of the previous inspection, then the contractor shall pay the cost of the second inspection. If the

second inspection amends the planting quality by more than 5 percentage points, then the Tribe shall pay the cost of both inspections.

3. Replanting will not be ordered or permitted unless the total number of planted trees recorded on inspection plots is below eighty-five percent (85%) of the total number of planting spots. In the event a planting block is replanted, a second inspection of the replanted area will be the basis for payment.

C. Inspection Procedure for Spot Spraying.

1. Approximately one (1) percent of each planting block will be inspected, using circular plots, 1/100 acre or 1/50 acre in size. Plots will be located throughout the planted area on a systematic grid from a randomly located first plot. Plot centers will be located and marked on the ground with flagging. The plot number will be written on flagging near or on plot center.

2. Inspectors shall check all seedlings on the plot, up to the number of planting spots available. On each plot, number of planting spots, number of planted and existing trees and satisfactory trees will be recorded. Codes normally associated with planting quality will be disregarded. The final column labeled "NR" indicates trees in excess of the number of planting spots that were not rated and shall not be included in the "No. of Trees" column.

3. Satisfactory trees shall be those surrounded by residual dye on vegetation within the 5 feet diameter spot indicating treatment as specified by Section 7.3 or 7.4 (shielded – no dye on crop tree).

4. Unsatisfactory trees include trees missed by the spray or dyed by spray when they should have been shielded.

5. Spray quality = (total number of satisfactory trees / total number of trees) X 100.

D. Actual Acres.

1. Estimated and actual acres are based on horizontal distance.

2. Whenever the area planted is physically different than the estimated area shown in the contract, completed planting blocks shall be traversed using a global positioning system (GPS) receiver to calculate actual acreage for payment. Such differences may arise from portions that cannot be planted due to seedling shortage or site conditions, or from expansion of area planted.

3. The actual acres shall be included in the inspection report for each planting block and if different than the estimated acres, shall be used to adjust payments using the bid price per acre.

E. Penalties.

1. Wasted trees due to improper planting, seedling handling or root pruning will be deducted from payment to the contractor at the rate of thirty-five cents (\$0.35) per tree whenever they result in planting quality of less than 80%.

2. Garbage left on or near the planting block by the contractor after notification by Tribal Forestry shall result in penalties for littering in the amount of \$100.00 per offense to be deducted from payments to the contractor.

F. Acceptance and Payment.

1. Each completed planting block with planting quality of ninety percent (90%) or more shall be accepted by the Tribe for payment at 100% of the planting bid price per tract.

2. Payment for any completed planting block with planting quality of less than ninety percent (90%) shall be based upon the planting quality percentage of the planting bid price per tract.

3. Each completed planting block with spray quality of ninety-five percent (95%) or more shall be accepted by the Tribe for payment at 100% of the spot spraying bid price per block.

4. Payment for any completed planting block with spray quality of less than ninety-five percent (95%) shall be based upon the spray quality percentage of the spot spraying price per acre.

5. Payments for completed planting blocks and spraying shall be submitted up to twice per month upon invoice by the contractor.