

Flathead National Forest

Task Order FNF-02 – Stand Improvement & Fuels Treatment IDIQ Contract

Task Order No: FNF-02

Contract No.: **1284LM22XXXX**

Delivery Order No. XXXX

Description of services required: (include summary info chart, work items, descriptions of work, units, acreage, project maps, prescriptions, etc.)

TASK ORDER PERIOD OF PERFORMANCE (See F.3.): 06/01/2023 thru 11/7/2023

ESTIMATED START WORK DATE: 06/01/2023

Calendar days within Task Order Period of Performance (See F.3.): 160 days

Ranger District(s):

Tally Lake

T.O.COR:

Erika Williams

Required items:

<u>Sub item</u>	<u>Item</u>	<u>Est. Acres</u>	<u>Unit</u>	<u>Acre \$</u>	<u>Unit Total \$</u>	<u>Quantity/Day</u>
01	C.5.14.6 Unit Preparation	26.1 ac	LB 1 A, B, C, D			
02	C.5.14.6 Unit Preparation	32.8 ac	LB 12			
03	C.5.14.6 Unit Preparation	18.3 ac	JK 104			
04	C.5.14.6 Unit Preparation	39.6 ac	JK 105			
05	C.5.14.6 Unit Preparation	5.9 ac	JK 106			
06	C.5.14.6 Unit Preparation	5.3 ac	JK 109			
07	C.5.14.6 Unit Preparation	29 ac	SP 67			
08	C.5.14.6 Unit Preparation	21 ac	SP 502			
09	C.5.14.6 Unit Preparation	41 ac	SP 503			
10	C.5.14.6 Unit Preparation	27 ac	SP 506			
11	C.5.14.6 Unit Preparation	3 ac	SP 507			
12	C.5.14.6 Unit Preparation	42 ac	SP 509			
13	C.5.14.6 Unit Preparation	19 ac	SP 510			
14	C.5.14.6 Unit Preparation	20 ac	SP 511			
15	C.5.14.6 Unit Preparation	13 ac	SP 512			
16	C.5.14.6 Unit Preparation	41 ac	SP 518			
17	C.5.14.6 Unit Preparation	21 ac	SP 519			
18	C.5.14.6 Unit Preparation	11 ac	SP 523			
19	C.5.14.6 Unit Preparation	6 ac	SP 525			
20	C.5.14.6 Unit Preparation	25 ac	SP 527			
21	C.5.14.6 Unit Preparation	15 ac	SP 534			
22	C.5.14.6 Unit Preparation	7 ac	SP 544			
23	C.5.14.6 Unit Preparation	41 ac	SP 802			
24	C.5.14.6 Unit Preparation	7 ac	SG 318/R			
25	C.5.14.6 Unit Preparation	114.4 ac	SG 325			
26	C.5.14.6 Unit Preparation	30.6 ac	SG 327			
27	C.5.14.6 Unit Preparation	27.9 ac	SG 334/336			
28	C.5.14.6 Unit Preparation	15 ac	SG 341			
29	C.5.14.6 Unit Preparation	39 ac	SG 344/R2			

30	C.5.14.6 Unit Preparation	71 ac	SG 344A/R1			
31	C.5.14.6 Unit Preparation	34.2 ac	SG 346/B/R			
32	C.5.14.6 Unit Preparation	91 ac	SG 348			
33	C.5.14.6 Unit Preparation	52.5 ac	SG 352			
34	C.5.14.6 Unit Preparation	55.2 ac	SG 353A			
35	C.5.14.6 Unit Preparation	17.8 ac	SG 354			
36	C.5.14.6 Unit Preparation	17 ac	SG 358/R			
37	C.5.14.6 Unit Preparation	96.8 ac	SG 360 (Non ACT)			
38	C.5.14.6 Unit Preparation	25 ac	SG 361			
39	C.5.14.6 Unit Preparation	29 ac	WFM F			
Total:		1233.4 ac			XXXXX	

Optional Items: None

<u>Total:</u>					<u>XXXXXX</u>	
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TASK ORDER FUNDING:

Funding for Optional Items will be determined at time of award or when funds become available. Optional Items are not guaranteed but are used for determining Task Order Award.

Task Order Evaluation Criteria: Price

Comments: Task order will be awarded to one vendor.

FNF-02 Task Order Summary

Task Order FNF-02 consists of an estimated 1233.4 acres of Hand Fuels treatment across 39 units. Area of work is on the Tally Lake Ranger District, Flathead National Forest, located near Kalispell, MT. Period of performance is 160 days with an estimated start work date of 6/1/2023.

Project Location and Access:

Georeferenced Vicinity Map (northwest Flathead Valley), Project Area Access Maps, and Individual Unit Maps have been provided. Individual Unit Maps depict Forest Service Road access types and barriers. Many units are located behind locked administrative gates. Forest Service gate keys for the purpose of pre-bid unit inspection can be checked out from the Flathead National Forest Supervisor's Office located at 650 Wolfpack Way in Kalispell, MT, 59901, Monday thru Friday (except government holidays) between the business hours of 8am – 4:30pm MST. Coordination with the COR is required to obtain gate key for access to private timber company administrative gates used to access Units LB 1ABCD and LB 12. Access to Unit WMW-F, a high-elevation unit, is not likely to be available at time of pre-bid inspection. Necessary access keys will be provided to the Awardee at time of Task Order start.

Boundary Markings:

All unit boundaries will be marked with **pink flagging**, except for Units LB-1ABCD, LB-12, SP-802, and WMW-F which will be marked with **blue flagging**. Unit boundary markings may not be complete for all units at time of pre-bid inspection; however, all unit boundary marking will be completed by government before Task Order start. The supplied georeferenced Individual Unit Maps can be used to locate units during pre-bid inspection.

Specifications

C.5.14.6 Unit Preparation:

Total Estimated Acreage of C.5.14.6 Unit Preparation is **1233.4 acres (39 Units)**. A description of the required Unit Preparation for each unit has been provided in the Unit Prescription Summary, as well as in the Summary Information Chart. Silvicultural Prescriptions will include one or more of the following elements:

- 1) **C.5.2 Tree Thinning:** Total Estimated Acreage is **1145.5 acres (36 Units)**. Average spacing is **12'** including overstory (174.9 acres, 6 units), **15'** including overstory (731.4 acres, 20 units), **15'** and **20'** from overstory (204.9 acres, 8 units), or **20'** including overstory (34.3 acres, 2 units). Contractor shall utilize the C.5.2.1 Best Tree in Competitive Area Leave Tree Selection method for selection of leave trees, in conformance with the species preference indicated on the supplied Unit Prescription Summary, as well as any D-minus rule (Section J, Exhibit 15) or damage notes, as applicable. A 50% spacing variance may be applied to all units to allow selection of the best tree of the preferred species. Birch, aspen, hemlock, and whitepine are not to be cut in any units and **will not** be counted in leave tree per acre calculations. Overstory trees and trees larger than the specified cut limit **will** be counted in leave tree per acre calculations. Minimum tree height to thin is **2 feet**. Maximum diameter at breast height to thin is **6, 7, or 8 inches**. Maximum stump height is **4 inches**.
- 2) **C.5.3 Slashing:** Total Estimated Acreage is **58.9 acres (2 Units)**. Minimum tree height to cut is **2 feet**. Maximum diameter at breast height to cut is **7 inches**. Maximum stump height is **4 inches**. Birch, aspen, hemlock, and whitepine are not to be cut in any units.
- 3) **C.5.3.2 Shrub Slashing:** Total Estimated Acreage is **188.9 acres (6 Units)**. Minimum shrub height to slash for all units except WMW-F is **3 feet**. All shrubs over the minimum cut height shall be cut, except one uncut clump of

shrubs shall be left at approximately **100'** spacing in all units except WMW-F. Maximum stump height for all units is **4 inches**.

- 4) C.5.8 Release/Weeding: Total Estimated Acreage is **29 acres (1 Unit)**. See WMW-F Unit Prescription Summary for seedling release/shrub slashing specifications. Slash all shrubs of all heights to **4 inches** or less stump height within **6 feet** of whitebark pine seedlings. **Protect all whitebark pine seedlings during saw operations.**
- 5) C.5.9 Slash Treatment: All task order units shall receive either Slash Treatment, Hand Piling, or a combination of both treatments, as specified in the Unit Prescription Summary. Where Slash Treatment is required, C.5.9.1 Standard Slash Treatment (Lop & Scatter) shall be used. Maximum depth of slash in all units receiving Lop & Scatter slash treatment is **2 feet**. Maximum bucked log length is **8 feet**.
- 6) C.5.10 Hand Piling: Hand piling shall be performed in areas as specified on Unit Prescription Summaries and indicated on provided Individual Unit Maps. When specified as 100' either side of road(s), road(s) shall mean any FS or Non-FS road depicted on the provided Individual Unit Maps, regardless of road status or condition. Distance shall be measured from the edge of the forest vegetation lining the roadway. Piles shall conform with all specifications outlined in section C.5.10. Maximum diameter of slash/fuels to pile is **8 inches**. Maximum bucked log length is **8 feet**, limbed flush with the bole on two sides. Pile configuration shall be **parallel**, like pencils in a box. Minimum pile height is **6 feet**. Pile covering is **required**.
- 7) C.5.14.1 Unit Boundary Area Designation: Total Estimated Acreage is **135 acres (6 Units)**. Unit boundary layout shall be completed by the contractor in units SP 503, SP 509, SP 510, SP 523, SP 534, and SP 544. Contractor shall designate the boundary with pink flagging, sufficient to delineate the boundary during and immediately after treatment. Boundaries may be left undesignated if natural or constructed features are so conspicuous that unit boundaries can be readily identified. These areas/features would include traveled roads and boundaries where a change in stand composition and predominant age and size of trees is so conspicuous that the lay person could recognize the boundary (i.e. clearcut harvest unit or mature old-growth stand abutting the treatment unit). Where flagging is tied on boles of trees, knots shall be oriented into or facing the unit. Hard corners and locations where unit boundaries intersect with roads shall be flagged with three flags tied around the bole of the tree. Flagging shall be labelled at the roads with unit name/number, date of layout, and name of person completing the layout. Pink flagging shall be provided by the government. Contractor shall designate the unit boundary as shown on provided individual unit maps. Contractor shall not significantly modify the unit boundary to capture additional treatment acreage unless prior approval is granted by the COR. **The contractor is not required to traverse the unit boundary or provide the government with a shapefile of the unit boundary.** The government will inspect the boundary designation by traversing the boundary with government equipment to verify accuracy of location and gross acreage.

FNF-02 Summary Information Chart

***Note:** The following “Standard*” Species Preference applies to all units unless otherwise noted: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, or white pine.**

Sub Work Item No.	Unit Name/ No.	Species Preference	Estimated Acres	Boundary Markings	Leave Tree Spacing (ft)	Acceptable Stocking Density Trees/ac	Max. DBH To cut	Min. Tree HT To cut	Remarks
01	LB 1 A, B, C, D	N/A	26.1	Blue Flag	N/A	N/A	7”	2’	<u>Unit preparation:</u> Slashing, shrub slashing, hand pile entire unit & pile covering.
02	LB 12	N/A	32.8	Blue Flag	N/A	N/A	7”	2’	<u>Unit preparation:</u> Slashing, shrub slashing, hand pile entire unit & pile covering.
03	JK 104	Standard*	18.3	Pink Flag	15’ and 20’ from overstory trees. 50% variance.	200 Avg. Acceptable Range: 160-240	7”	2’	<u>Unit preparation:</u> Thinning, lop & scatter, 100’ roadside & private boundary hand piling.
04	JK 105	Standard*	39.6	Pink Flag	15’ and 20’ from overstory trees. 50% variance.	200 Avg. Acceptable Range: 160-240	7”	2’	<u>Unit preparation:</u> Thinning, lop & scatter, 100’ roadside, powerline & private boundary hand piling.
05	JK 106	Standard*	5.9	Pink Flag	15’ 50% variance	200 Avg. Acceptable Range: 160-240	6” LP, 7”	2’	<u>Unit preparation:</u> Thinning, lop & scatter.
06	JK 109	Standard*	5.3	Pink Flag	20’ 50% variance	100 Avg. Acceptable Range: 60-140	8”	2’	<u>Unit preparation:</u> Thinning, hand pile entire unit & pile covering. *No piles within 50’ of stream channel.
07	SP 67	PP, DF, WL, LP, ES, AF, GF	29	Pink Flag	20’ 50% variance	100 Avg. Acceptable Range: 60-140	8”	2’	<u>Unit preparation:</u> Thinning, shrub slashing, hand pile entire unit & pile covering. *Leave two 1/20th acre clumps of understory PP or DF per acre.
08	SP 502	PP, WL, LP, ES, DF, AF, GF	21	Pink Flag	15’ and 50% variance	200 Avg. Acceptable Range: 160-240	7”	2’	<u>Unit preparation:</u> Thinning, lop & scatter, 100’ roadside hand piling & pile covering. *D-minus 2” Rule & Damage notes, see Rx. Summary

09	SP 503	Standard*	41	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. <u>*Contractor provides unit boundary designation (layout).</u>
10	SP 506	PP, WL, LP, ES, DF, AF, GF	27	Pink Flag	12' 50% variance	300 Avg. Acceptable Range: 260-340	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *D-minus 2" Rule & Damage notes , see Rx. Summary
11	SP 507	Standard*	3	Pink Flag	12' 50% variance	300 Avg. Acceptable Range: 260-340	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, hand pile entire unit & pile covering.
12	SP 509	Standard*	42	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. <u>*Contractor provides unit boundary designation (layout).</u>
13	SP 510	Standard*	19	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, shrub slashing, 100' roadside hand piling & pile covering. <u>*Contractor provides unit boundary designation (layout).</u>
14	SP 511	Standard*	20	Pink Flag	15' and 20' from overstory trees. 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *No thinning activities within 150' of stream.
15	SP 512	Standard*	13	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering.
16	SP 518	Standard*	41	Pink Flag	15' and 20' from overstory trees. 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, shrub slashing, 100' roadside hand piling & pile covering.
17	SP 519	Standard*	21	Pink Flag	15' and 20' from overstory trees. 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *Retain 50% DF
18	SP 523	Standard*	11	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. <u>*Contractor provides unit boundary designation (layout).</u>
19	SP 525	Standard*	6	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *Favor larger-diameter leave trees to reduce snow damage.
20	SP 527	Standard*	25	Pink Flag	15' and 20' from overstory trees. 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering.

21	SP 534	Standard*	15	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *Walk-in required to access unit. *Contractor provides unit boundary designation (layout).
22	SP 544	Standard*	7	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *Contractor provides unit boundary designation (layout).
23	SP 802	PP, DF, WL, LP, ES, AF, GF	41	Blue Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	6" LP, 7"	2'	<u>Unit preparation:</u> Thinning, shrub slashing , hand pile entire unit & pile covering.
24	SG 318/R	Standard*	7	Pink Flag	12' 50% variance	300 Avg. Acceptable Range: 260-340	6" LP, 7"	2'	<u>Unit preparation:</u> Thinning, hand pile entire unit & pile covering. *D-minus 2" Rule & Damage notes , see Rx. Summary
25	SG 325	Standard*	114. 4	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *D-minus 2" Rule & Damage notes , see Rx. Summary
26	SG 327	Standard*	30.6	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering.
27	SG 334/336	Standard*	27.9	Pink Flag	12' 50% variance	300 Avg. Acceptable Range: 260-340	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *D-minus 2" Rule & Damage notes , see Rx. Summary *Walk-in required to access unit.
28	SG 341	Standard*	15	Pink Flag	15' and 20' from overstory trees. 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *Favor larger-diameter leave trees to reduce snow damage.
29	SG 344/R2	Standard*	39	Pink Flag	12' 50% variance	300 Avg. Acceptable Range: 260-340	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter. *D-minus 2" Rule & Damage notes , see Rx. Summary *Walk-in required to access unit.
30	SG 344A/R 1	Standard*	71	Pink Flag	12' 50% variance	300 Avg. Acceptable Range: 260-340	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter. *D-minus 2" Rule & Damage notes , see Rx. Summary *Walk-in required to access unit.
31	SG 346/B/R	Standard*	34.2	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	6" LP, 7"	2'	<u>Unit preparation:</u> Thinning, hand pile entire unit & pile covering. *D-minus 2" Rule & Damage notes , see Rx. Summary
32	SG 348	Standard*	91	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter. *D-minus 2" Rule & Damage notes , see Rx. Summary

33	SG 352	Standard*	52.5	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *D-minus 2" Rule & Damage notes , see Rx. Summary *Walk-in required to access unit.
34	SG 353A	Standard*	55.2	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering.
35	SG 354	Standard*	17.8	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering.
36	SG 358/R	Standard*	17	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter.
37	SG 360 (Non ACT)	Standard*	96.8	Pink Flag	15' 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter, 100' roadside hand piling & pile covering. *D-minus 2" Rule & Damage notes , see Rx. Summary *Additional 4.7 acres roadside hand piling as shown on unit map.
38	SG 361	Standard*	25	Pink Flag	15' and 20' from overstory trees. 50% variance	200 Avg. Acceptable Range: 160-240	7"	2'	<u>Unit preparation:</u> Thinning, lop & scatter. *D-minus 2" Rule & Damage notes , see Rx. Summary
39	WFM F	N/A	29	Blue Flag	N/A	N/A	N/A	4" shrub	<u>Unit preparation:</u> Release/Shrub Slashing. Slash all shrubs of all heights to 4" or less stump height within 6' of whitebark pine seedlings. (Estimated 90-100% ground covered by shrubs in this high elevation unit.) *Protect all whitebark pine seedlings during saw operations. *Walk-in required to access unit.

Subitem No. FNF-02-01 Estimated Acres **26.1**

Unit Name – **LB 1 A, B, C, D**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Slashing Specifications:

LEAVE TREES PER ACRE: N/A. **Cut all trees < 7-inch DBH except birch, aspen, hemlock, and white pine.**

AVERAGE SPACING: N/A.

LEAVE TREE ORDER PREFERENCE BY SPECIES: N/A.

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.**

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SHRUB SLASHING: **Slash all shrubs greater than 3 feet in height. Leave one un-slashed clump per 100' spacing.**

SLASH TREATMENT: No slash treatment. **Hand pile entire unit.**

HAND PILING:

Material to pile: **All** contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-02 Estimated Acres **32.8**

Unit Name – **LB 12**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Slashing Specifications:

LEAVE TREES PER ACRE: N/A. **Cut all trees < 7-inch DBH except birch, aspen, hemlock, and white pine.**

AVERAGE SPACING: N/A.

LEAVE TREE ORDER PREFERENCE BY SPECIES: N/A.

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.**

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SHRUB SLASHING: **Slash all shrubs greater than 3 feet in height. Leave one un-slashed clump per 100' spacing.**

SLASH TREATMENT: No slash treatment. **Hand pile entire unit.**

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-03 Estimated Acres **18.3**

Unit Name – **JK 104**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' from overstory trees**, with 50% variance to select the best tree of preferred species. **Utilize 50% spacing variance to maintain leave trees per acre within acceptable range.**

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees greater 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) and private boundary within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-04 Estimated Acres **39.6**

Unit Name – **JK 105**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' from overstory trees**, with 50% variance to select the best tree of preferred species. **Utilize 50% spacing variance to maintain leave trees per acre within acceptable range.**

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees greater 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s), powerline, and private boundary within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-05 Estimated Acres **5.9**

Unit Name – **JK 106**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing, with 50% variance to select the best tree of preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **6 inches for LP and 7 inches** all other species.

Trees greater than 6-inch (LP) and 7-inch (other) DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

No hand piling.

Subitem No. FNF-02-06 Estimated Acres **5.3**

Unit Name – **JK 109**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 100 average, acceptable range 60-140

AVERAGE SPACING: 20' average spacing including overstory trees, with a 50% variance to select the best available tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **8 inches.** Trees greater than 8-inch DBH will be used in trees per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SLASH TREATMENT: No slash treatment. **Hand pile entire unit.**

HAND PILING:

Material to pile: **All** contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Special Note: **No piles within 50' of stream channel.**

Subitem No. FNF-02-07 Estimated Acres **29**

Unit Name – **SP 67**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 100 average, acceptable range 60-140

AVERAGE SPACING: 20' average spacing including overstory trees, with a 50% variance to select the best available tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, **DF, WL**, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health.

- **Leave two 1/20th acre clumps of understory PP and/or DF per acre.**
- Vegetation and fuels treatments will not occur between **December 1 and April 15** for big game winter security.

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **8 inches.** Trees greater than 8-inch DBH will be used in trees per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SHRUB SLASHING: **Slash all shrubs greater than 3 feet in height. Leave one un-slashed clump per 100' spacing.**

SLASH TREATMENT: **Hand pile entire unit.**

HAND PILING:

Material to pile: **All** contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-08 Estimated Acres **21**

Unit Name – **SP 502**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, **LP, ES, DF**, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by **LP, ES, DF**, AF, GF.

- **Favor LP and ES over DF due to presence of root rot within the stand. Utilize 50% spacing variance to select against DF.**
- **Apply a 2" DBH deduction to DF when favoring higher preference species (D-minus 2" rule).**

DAMAGE:

Armillaria root disease: Favor LP and ES over DF to reduce retention of DF in stands where root rot is present. Utilize 50% spacing variance to select against DF.

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-09 Estimated Acres **41**

Unit Name – **SP 503**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Boundary Designation: Contractor will designate unit boundary according to provided Task Order Summary specifications.

Subitem No. FNF-02-10 Estimated Acres 27

Unit Name – **SP 506**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 300 average, acceptable range 260-340

AVERAGE SPACING: **12'** average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, **LP, ES, DF**, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by **LP, ES, DF**, AF, GF.

- **Favor LP and ES over DF due to presence of root rot within the stand. Utilize 50% spacing variance to select against DF.**
- **Apply a 2" DBH deduction to DF when favoring higher preference species (D-minus 2" rule).**

DAMAGE:

Armillaria root disease: Favor LP and ES over DF to reduce retention of DF in stands where root rot is present. Utilize 50% spacing variance to select against DF.

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-11 Estimated Acres **3**

Unit Name – **SP 507**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 300 average, acceptable range 260-340

AVERAGE SPACING: **12'** average spacing including overstory trees, with a 50% variance to select the best tree of preference by species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: No slashing. **Hand pile entire unit.**

HAND PILING:

Material to pile: **All** contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-12 Estimated Acres 42

Unit Name – **SP 509**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Boundary Designation: Contractor will designate unit boundary according to provided Task Order Summary specifications.

Subitem No. FNF-02-13 Estimated Acres **19**

Unit Name – **SP 510**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SHRUB SLASHING: **Slash all shrubs greater than 3 feet in height. Leave one un-slashed clump per 100' spacing.**

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Boundary Designation: Contractor will designate unit boundary according to provided Task Order Summary specifications.

Subitem No. FNF-02-14 Estimated Acres **20**

Unit Name – **SP 511**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' spacing from live, healthy overstory trees >14" DBH**, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

No thinning activities within 150 feet either side of stream.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

SPECIAL NOTE: **No thinning activities within 150 feet either side of stream.**

Subitem No. FNF-02-15 Estimated Acres **13**

Unit Name – **SP 512**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-16 Estimated Acres **41**

Unit Name – **SP 518**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' spacing from live, healthy overstory trees >14" DBH**, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SHRUB SLASHING: **Slash all shrubs greater than 3 feet in height. Leave one un-slashed clump per 100' spacing.**

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-17 Estimated Acres **21**

Unit Name – **SP 519**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' spacing from live, healthy overstory trees >14" DBH**, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

Alter species preference as needed to retain 50% of leave tree composition as DF or other full-crowned species, for improved whitetail deer winter range habitat.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

SPECIAL NOTES: **Alter species preference as needed to retain 50% of leave tree composition as DF or other full-crowned species**, for improved whitetail deer winter range habitat.

Subitem No. FNF-02-18 Estimated Acres **11**

Unit Name – **SP 523**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Boundary Designation: Contractor will designate unit boundary according to provided Task Order Summary specifications.

Subitem No. FNF-02-19 Estimated Acres **6**

Unit Name – **SP 525**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Utilize 50% spacing variance to favor larger-diameter leave trees where possible to reduce snow damage. Do not apply a DBH deduction.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-20 Estimated Acres **25**

Unit Name – **SP 527**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: 200 average, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' spacing from live, healthy overstory trees >14" DBH**, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-21 Estimated Acres **15**

Unit Name – **SP 534**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Access Notes: Access via ~1300' walk-in from gated Road # 2956.

Boundary Designation: Contractor will designate unit boundary according to provided Task Order Summary specifications.

Subitem No. FNF-02-22 Estimated Acres 7

Unit Name – **SP 544**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Boundary Designation: Contractor will designate unit boundary according to provided Task Order Summary specifications.

Subitem No. FNF-02-23 Estimated Acres **41**

Unit Name – **SP 802**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, **DF, WL**, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **6 inches for LP and 7 inches all other species.**

Trees over 6-inch (LP) and 7-inch (other) DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

SHRUB SLASHING: Slash all shrubs greater than 3 feet in height. Leave one un-slashed clump per 100' spacing.

SLASH TREATMENT: No slashing. Hand pile entire unit.

HAND PILING:

Material to pile: **All** contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-24 Estimated Acres 7

Unit Name – **SG 318/R**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 300, acceptable range 260-340

AVERAGE SPACING: **12'** average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **6 inches for LP and 7 inches all other species.**

Trees over 6-inch (LP) and 7-inch (other) DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

- **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**
- **No thinning activity within 50' of any stream or wetland.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: No slash treatment. **Hand pile entire unit.**

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-25 Estimated Acres 114.4

Unit Name – **SG 325**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**

DAMAGE:

Dwarf Mistletoe: Cut all DF and AF <7-inch DBH that exhibit signs of infection. Cut all DF and AF within 30 feet of overstory DF or AF that exhibit signs of infection.

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-26 Estimated Acres **30.6**

Unit Name – **SG 327**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-27 Estimated Acres **27.9**

Unit Name – **SG 334/336**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 300, acceptable range 240-360

AVERAGE SPACING: **12'** average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Access Notes: Access via ~1600' walk-in from intersection of open Road #s 60A and 2903. First travel west across Gregg Creek, then walk south on closed Road #5203A to thinning unit.

Subitem No. FNF-02-28 Estimated Acres **15**

Unit Name – **SG 341**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' spacing from live, healthy overstory trees >14" DBH**, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Utilize 50% spacing variance to favor larger-diameter leave trees where possible to reduce snow damage. Do not apply a DBH deduction.**

DAMAGE:

Dwarf Mistletoe: Cut all DF and AF <7-inch DBH that exhibit signs of infection. Cut all DF and AF within 30 feet of overstory DF or AF that exhibit signs of infection.

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-29 Estimated Acres **39**

Unit Name – **SG 344/R2**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 300, acceptable range 260-340

AVERAGE SPACING: **12'** average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF.

- **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**
- **No thinning activity within 50' of any stream or wetland.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

No hand piling.

Access Notes: Access via ~2000' walk-in from gated Road # 2998.

Subitem No. FNF-02-30 Estimated Acres **71**

Unit Name – **SG 344A/R1**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 300, acceptable range 260-340

AVERAGE SPACING: **12'** average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF.

- **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**
- **No thinning activity within 50' of any stream or wetland.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

No hand piling.

Access Notes: Access via ~1600' walk-in from gated Road # 2998.

Subitem No. FNF-02-31 Estimated Acres **34.2**

Unit Name – **SG 346/B/R**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **6 inches for LP and 7 inches all other species.**

Trees over 6-inch (LP) and 7-inch (other) DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, AF, GF.

- **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**
- **No thinning activity within 50' of any stream or wetland.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: No slash treatment. **Hand pile entire unit.**

HAND PILING:

Material to pile: **All** contractor generated slash & natural fuels <8-inch diameter **throughout entire unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-32 Estimated Acres **91**

Unit Name – **SG 348**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

No hand piling.

Subitem No. FNF-02-33 Estimated Acres **52.5**

Unit Name – **SG 352**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Access Notes: **May require walk-in 1600' or greater,** dependent on status of new road construction.

Subitem No. FNF-02-34 Estimated Acres **55.2**

Unit Name – **SG 353A**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: 2 feet.

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: 7 inches. Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: 4 inches and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: 6 feet

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: Required

Subitem No. FNF-02-35 Estimated Acres **17.8**

Unit Name – **SG 354**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF. **Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: **6 feet**

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: **Required**

Subitem No. FNF-02-36 Estimated Acres 17

Unit Name – **SG 358/R**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, white pine, or cedar.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, white pine, and cedar are not to be cut and will not be counted in the TPA calculations. Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF.

No thinning activity within 50' of any stream or wetland.

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

No hand piling.

Subitem No. FNF-02-37 Estimated Acres **96.8**

Unit Name – **SG 360/R/R1**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing including overstory trees, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, and white pine.**

MINIMUM TREE HEIGHT TO THIN: 2 feet.

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: 7 inches. Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: 4 inches and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, and white pine are not to be cut and will not be counted in the TPA calculations.

Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF.

- **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**
- **Utilize 50% spacing variance to select leave trees farther from healthy WL or DF overstory >14" DBH when present.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

Material to pile: All contractor generated slash & natural fuels <8-inch diameter **100 feet either side of road(s) within or adjacent to unit. In addition, also pile all slash & natural fuels <8-inch diameter as indicated on unit map (100' either side of road and within adjacent 2022 daylight-thinned unit).** Piles within 2022 daylight-thinned areas shall be placed utilizing natural stand openings to reduce damage to leave trees. **Where adequate natural stand openings are not present, an additional 8' of thinning may be performed on one side of the daylight-thin to accommodate pile.**

All Slash: Shall be limbed flush with the bole to a minimum diameter of 1 inch on two opposing sides and bucked into pieces 8 feet or less in length prior to piling.

Minimum pile height: 6 feet

Pile orientation: Material shall be piled in a parallel configuration, like pencils in a box.

Pile covering: Required

Subitem No. FNF-02-38 Estimated Acres **25**

Unit Name – **SG 361**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Thinning Specifications:

LEAVE TREES PER ACRE: Average: 200, acceptable range 160-240

AVERAGE SPACING: 15' average spacing **and 20' spacing from live, healthy overstory trees >14" DBH**, with a 50% variance to select the best tree of the preferred species.

LEAVE TREE ORDER PREFERENCE BY SPECIES: PP, WL, DF, LP, ES, AF, GF. **Do not cut birch, aspen, hemlock, white pine, or cedar.**

MINIMUM TREE HEIGHT TO THIN: **2 feet.**

MAXIMUM TREE DIAMETER (AT D.B.H.) TO THIN: **7 inches.** Trees over 7-inch DBH will be counted in leave tree per acre calculations.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

DESIRED LEAVE TREE STAND COMPOSITION:

All birch, aspen, hemlock, white pine, and cedar are not to be cut and will not be counted in the TPA calculations. Thin remaining species in accordance with species preference and tree health. Favor fire-resistant, early seral species such as ponderosa pine and western larch, followed by DF, LP, ES, GF, AF.

- **Apply a 2" DBH deduction to LP when favoring WL and DF (D-minus 2" rule).**
- **Utilize 50% spacing variance to maintain leave trees per acre within acceptable range.**

DAMAGE:

Western gall rust: If the gall rust is only in the branches of LP, the tree may be selected as a leave tree. If gall rust is found within the bole of the tree, species lower on the preference criteria should be selected in the order specified. Utilize 50% spacing variance to cull trees with gall rust in the bole.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

No hand piling.

Subitem No. FNF-02-39 Estimated Acres **29**

Unit Name – **WFM F**

Location – Tally Lake Ranger District, Kalispell, MT

Unit map provided.

Shrub Slashing/Tree Release Specifications:

STAND HISTORY: This high elevation unit was planted with Whitebark pine seedlings in spring of 2022. Shrub response on site was more robust than anticipated. Follow-up release treatment is needed to reduce vegetation competition and allow seedlings to establish. The release treatment will temporarily reduce competition for light and moisture from shrub species, allowing seedlings to establish well enough to compete with the shrubs on site.

SHRUB SLASHING: Slash all shrubs **>4 inches** in height within **6 feet** of planted or natural Whitebark Pine seedlings. **Provide protection for all Whitebark Pine seedlings during saw operations.**

ESTIMATED GROUND COVER TO SLASH: **90-100%**

LEAVE TREES (SEEDLINGS) PER ACRE: 300

AVERAGE SPACING: 12' average spacing. Slash all shrubs **within 6 feet** of Whitebark Pine seedlings.

MINIMUM SHRUB HEIGHT TO SLASH: **4 inches.**

MAXIMUM SHRUB HEIGHT TO SLASH: **N/A** Slash **all** shrubs over 4 inches in height.

MAXIMUM STUMP HEIGHT: **4 inches** and no lower live limbs left on the stumps.

SLASH TREATMENT: All thinning slash shall be lopped to less than 2 feet high and placed on or near the ground surface. Bucking is required to lengths of 8 feet or less, regardless of slash height.

HAND PILING:

No hand piling.

SPECIAL NOTE: Contractor shall provide protection for all Whitebark pine seedlings during saw operations. This may be accomplished through a variety of methods, such as the use of one or more five-gallon buckets by each thinner to locate and protect seedlings while sawing in direct proximity to the seedling. Contractor may propose an alternate method of protection, which must be approved by the COR prior to treatment.

Access Notes: Access via **~2000' walk-in**. Access will require coordination with FS personnel to enter and exit Whitefish Mountain Resort ski area access roads.