

Schedule of Service Items and Specifications

Reds Meadow II – Large Woody Debris, Coarse Woody Debris, and Hazard Tree Removal

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SCHEDULE OF SERVICE ITEMS:

Scope of Work

The intent of this line is to perform skidding, hauling, decking and/or piling of woody material within approximately 150 feet of the Reds Meadow Road (3S11) from the Agnew turnoff and to Reds. There is no estimation for volume or number of logs to be removed. The goal is to reduce hazardous fuels along the road by removing and/or piling as much downed material and hazard trees as possible through mechanical operations.

These are optional line items to be awarded based on funding and need. Contractors will bid on these items with time and materials.

There are two goals of this project:

- 1) **Large woody debris (LWD) (> 20" diameter):** skid, haul, and deck this material. Destination of the logs will be determined.
- 2) **Coarse woody debris (CWD) (3" – 20" diameter):** Mechanical pile this material for burning at a later date, fine fuels must be included in these piles to aid in pile burning consumption.
- 3) **Hazard Trees (>12" DBH):** Cut and remove or pile hazard trees greater than 12" DBH that pose a hazard to infrastructure.

Line Items:

Line items	Mechanism	Contract Status
LWD removal and hauling	(down woody debris > 20" diameter): skid, haul, and deck this material. Destination of the logs will be determined.	Optional
Machine pile CWD	(down woody debris 3" – 20" diameter): Mechanical pile this material for burning at a later date, fine fuels must be included in these piles to aid in pile burning consumption.	Optional
Hazard Trees	Hazard trees >12" DBH: Cut and remove or pile hazard trees greater than 12" DBH that pose a hazard to infrastructure.	Optional

Large Woody Debris (Item 1)

1.1 Large Woody Debris Removal Specifications: Sound (non-rotten) logs greater than 20", less than 40" diameter and 8 feet in length will be removed.

1.2 Road damage: Yarding on the Reds Meadow Road will only be allowed if approval from COR in coordination with the Road Construction. This will be communicated on a weekly basis.

1.3 Hauling: Hauling will be conducted along the designated Haul Route, which will be determined with contractor. This route is the shortest distance from the Reds Meadow Road to the decking location.

1.4 Decking Location: Logs should be decked in a uniform and safe fashion no higher than 5 feet in height. Logs will be placed in already disturbed areas away from continuous vegetation.

Coarse Woody Debris (Item 2)

2.1 Coarse Woody Debris: Sound (non-rotten) downed logs 3” – 20” diameter shall be piled.

2.2 Machine Piles: Unless approved otherwise by the COR in writing, maximum pile size shall be 15 feet in diameter by 12 feet in height, and minimum pile size shall be 7 feet in diameter by 5 feet in height at the time of final inspection. In circumstances where there is limited space to meet pile spacing requirements, windrows may be constructed. Windrows are elongated piles which may exceed 12 feet in length in one direction; windrows shall not exceed 12 feet in width and 15 feet in height. All spacing requirements stated below apply to windrows.

- a. All piles shall be constructed by laying limbs, stems, cut boles, and all other slash, in the pile so it is triangular in shape. All material placed in piles shall be bucked to 8-foot lengths to facilitate tight piles. Minimum piece size to be piled would be 3 inches in diameter and 4 feet in length.
- b. Piles must include a substantial amount of finer fuels to aid in ignition and consumption. These added fuels shall be placed at the bottom of the pile and be progressively built up, beginning at the 1-hour size-class (fines), progressively increasing in size-class until you reach the size of the material being piled.

2.3 Pile Locations: All activity generated material and coarse woody debris must be added to a pile. Piles should generally be 20 feet apart.

Piles shall **NOT** be placed:

- Within 50 feet of Meadow Restoration Units
- Closer than 15 feet to boles of residual trees and outside of the dripline of residual trees, for piles less than 8 feet in height.
- Closer than 20 feet to boles of residual trees and outside the dripline of residual trees, for piles greater than 8 feet in height.
- Within 5 feet of any down logs exceeding 12 inches in diameter at the small end unless approved by the inspector.
- Within campgrounds, roads, or within 50 feet of infrastructure (buildings, roads, powerlines, etc.).
- Within 20 feet of trails.
- Within 1.5 times the pile diameter from a five needle pine individual or clump (e.g. a pile that is 15 feet in diameter shall be located at least 22.5 feet from the canopy of a five-needle pine of any size).
- Within 10 feet of unclassified channel bottoms or 25 feet of designated classified streams and meadows as shown on the contract area map and/or designated on the ground.
- Within control areas.

If such locations are not present, the contractor can request to pile outside of the unit in writing to the COR. No piling outside the units is allowed until approved. No cutting or piling will be allowed outside the NEPA boundary.

2.4 Pile Covering: All constructed piles shall receive one, 4 foot wide by 4-foot-long sheet of Kraft paper in the top third of the pile. Contractor shall pile additional material (top third) on top of the Kraft paper to prevent paper from moving off the pile by environmental conditions. For windrows, Kraft paper shall be placed in the top third of the pile along the length of the pile to ensure adequate coverage.

Hazard Trees (Item 3)

3.1 Hazard Trees: hazard trees greater than 12” DBH will be felled if they pose a hazard to infrastructure. Hazard trees will be identified and marked for removal by the COR or a Forest Service representative.

3.2 Hauling or Piling: Contractor shall dispose of these trees by hauling or piling in accordance with items 1 and 2 above.

Inspections and Acceptance of Work

Work will be accepted for payment based on the results of the Final Inspection. Final Inspection will determine whether the work has been performed satisfactorily according to the specifications. The inspections will be plot based and the plots will be located throughout the units so as to obtain a representative sample of the area. Units will be inspected separately and not combined for the purpose of determining percent of satisfactory work. Inspections are for the purpose of satisfying the Government that the services are acceptable and do not relieve the Contractor of the responsibility for maintaining quality control.

Performance Measures for Large Woody Debris (Item 1)

1. LWD removal

Performance Measures for Coarse Woody Debris (Item 2)

1. CWD
2. Piling

Performance Measures for Hazard Tree Removal (Item 3)

1. Hazard Trees
2. Piling

As needed, a series of 1/20th acre plots (26.3 foot plot radius) per every 5 acres, with a minimum of three plots per unit, will be sampled by a fixed series of plots evenly distributed over the entire treatment area. The plot size will be a fixed radius measured in horizontal distance.

On each plot the designated inspectors will record the plot number, whether the plot is satisfactory or unsatisfactory and the reason if unsatisfactory. Each plot will be examined to record findings on individual items as listed below. To be considered satisfactory these items must meet the following criteria:

Item	Performance Measure	Inspection Metric	Pass	Fail
Large Woody Debris (Item 1)	LWD Removal	Sound LWD >20" removed	<1 piece per plot left in project area	≥1 piece per plot left in project area
Coarse Woody Debris (Item 2)	CWD	Sound CWD 3"-20" treated	<1 piece per plot left untreated	≥1 piece per plot left untreated
	Piling	CWD material is piles to specification	≥9/10 piles meet specifications and <1 piece of material per plot not in pile	<9/10 piles meet specifications and ≥1 piece of material per plot not in pile
Hazard Tree Removal (Item 3)	Hazard Trees	All hazard trees posing a hazard to infrastructure is cut and removed	<1 tree per plot left in project area	≥1 tree per plot left in project area
	Piling	Hazard tree material is piles to specification	≥9/10 piles meet specifications and <1 piece of material per plot not in pile	<9/10 piles meet specifications and ≥1 piece of material per plot not in pile

Acceptance

Work on this Agreement will be deemed acceptable when a score of 90 percent or more is achieved. For a score of 80 percent or more but less than 90 percent, 2 percent of the unit price pay will be deducted for that unit for each percentage point below 90%. If the inspection score is less than 80 percent then there is no pay. The unit may be reworked ONCE and then re-inspected. This re-inspection score will be the final result for payment on that unit, (see re-inspection after rework below).

Government Inspections

Government inspections are for the purpose of satisfying the Government that the services are acceptable and do not relieve the Partner of the responsibility for maintaining quality control.

The Agreement Officer's Representative or designated inspector will conduct all inspections. The Partner (or designated representative) is encouraged to be present to observe inspections. Summary results will be made available on request.

Compliance Inspections. Visual compliance inspections will be made on a periodic basis. Such inspections are not final and do not constitute acceptance by the Government.

Final Inspections. Final (formal) inspections for payment will be made on completed sub-items only. The Partner shall request final inspections in writing and give the Forest Service at least two working days advanced notice. Inspection forms will be provided to the Forest Service at the time of final inspection request. Inspections will be completed within ten working days after the notice is received. If the work

is not ready for inspection at the time specified by the Partner, the cost associated with the inspection attempt may be charged to the Partner.

Disputed Inspection

The Contractor may request re-inspection without rework if the results are unacceptable. Re-inspection must be requested in writing within 48 hours after receiving written notice of the inspection results. Re-inspection will be accomplished within five working days after receipt of the Contractor's written request.

The same sampling and inspection procedures will be used, but new samples will be taken. The inspection pattern will be shifted so that new samples will not overlap previously inspected samples. Results will be rounded to the nearest whole percent.

If re-inspection results are within five percentage points of the first inspection, the original inspection result will be used in determining acceptability and payment. If re-inspection results are greater than five percentage points above or below the first inspection, the re-inspection results will be used.

If the re-inspection results are within five percentage points of the first inspection, the Contractor shall pay the actual costs of the re-inspection.

Re-inspection after Rework

Where rework after a failed inspection may improve the inspection results, the Contractor may rework the area and request (in writing) a second inspection. The Whitebark Institute will charge to the Contractor the cost of this additional inspection. Re-inspection will be accomplished within five working days after the notice is received. The results of the second inspection will be final, and no further rework will be permitted. Areas not ready for re-inspection at the time specified by the Contractor will not be re-inspected, and the results of the first inspection will be final.