

ROAD MAINTENANCE REQUIREMENTS

FS-2400-6T Contracts (6/06)

SECTION 1. GENERAL

Purchaser's maintenance responsibility begins (1) after purchaser performs Prehaul Maintenance on a road listed in the Road Maintenance Requirements Schedule; or (2) for all other roads, when Purchaser begins to use the road. Occasional travel by Purchaser's light vehicles, prior to beginning of construction clearing or logging operations in the area accessed by the road, does not constitute beginning of use. Purchaser is not required to perform routine maintenance during periods of inactivity. During periods of inactivity, Forest Service will perform maintenance only as required to meet its needs.

The Purchaser shall maintain roads, commensurate with the Purchaser's use, in accordance with the Road Maintenance Requirements Summary and Road Maintenance Specifications. Performance of road maintenance work by the Purchaser may be required prior to, during, or after each period of use. The timing of work accomplishment shall be based on the Purchaser's operating schedule under Standard Provision BT6.31.

If the Purchaser elects to use different roads than those listed in the Road Maintenance Requirements Summary, the Contracting Officer or designee shall determine the Purchaser's commensurate share of road maintenance and/or revise road maintenance deposits.

Unless the Contracting Officer or designee agrees in writing otherwise, prehaul maintenance shall be completed on any portion of road prior to hauling on that portion.

The Purchaser shall attend to the following situations as they occur and concurrently with sale operations: remove slides, fallen timber and other obstructions and overhanging brush obstructing road sight distance. Excess material resulting from any maintenance activity shall not be placed at locations where it will wash into streams.

The Forest Service shall prepare a revised Road Maintenance Requirements Schedule to reflect changes in the original haul route.

SECTION 2. ROAD MAINTENANCE DEFINITIONS

Wherever the following terms are used in the Road Maintenance Specifications, the meaning shall be:

Base Course. Material placed on the Subgrade to distribute concentrated wheel loads.

Berm. Curb or dike constructed to prevent Roadway runoff water from discharging onto embankment slope.

Borrow. Select Material taken from designated borrow sites.

Crown, Inslope, and Outslope. The cross slope of the Traveled Way to aid in drainage and traffic maneuverability.

Culverts. A conduit or passageway under a road, trail, or other obstruction. A culvert differs from a bridge in that it is usually entirely below the elevation of the Traveled Way.

Drainage Dip. A dip in the Traveled Way which intercepts surface runoff and diverts the water off the Traveled Way. A Drainage Dip does not block the movement of traffic.

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Drainage Structures. Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, downdrains and downpipes.

Lead-off Ditches. A ditch used to transmit water from a Culvert, Drainage Structure or Drainage Dip outlet to the natural drainage area.

Maintenance Activitiy. Items of work leading to the minor restoration and upkeep of a road and necessary to sustain the road's anticipated traffic.

Material. Any substance specified for use in the performance of the work.

Prehaul Maintenance. Road maintenance work to be accomplished prior to the roads use. Roads receiving prehaul maintenance shall be shown on the Sale Area Map.

Roadbed. The portion of a road between the intersection of Subgrade and sideslopes, excluding that portion of the ditch below Subgrade.

Roadside. A general term denoting the area adjoining the outer edge of the Roadway.

Roadway. The portion of a road within the limits of excavation and embankment.

Shoulder. That portion of Roadway contiguous with Traveled Way for accommodation of stopped vehicles, for emergency use, and lateral support of Base and Surface Course, if any.

Slide. A concentrated deposit of materials from above or on backslope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated ravelling.

Slough. Material eroded from the backslope which partially or completely blocks the ditch, but does not encroach on the Traveled Way so as to block passage of traffic.

Slump. A localized portion of the Roadbed which has slipped or otherwise become lower than that of the adjacent Roadbed and constitutes a hazard to traffic.

Subgrade. Top surface of Roadbed upon which Base Course or Surface Course is constructed. For roads without Base Course or Surface Course, that portion of Roadbed prepared as the finished wearing surface.

Surface Course. The Material placed on the Base Course or Subgrade to enhance traction, distribute concentrated wheel loads and resist abrasion and the effects of climate. Surface Course may be referred to as surfacing.

Traveled Way. That portion of Roadway, excluding Shoulders, used for the movement of vehicles.

Turnouts. That portion of the Traveled Way constructed as additional width on single lane roads to allow for safe passing of vehicles.

Waterbar. A dip in the Roadbed which intercepts surface runoff and diverts the water off the Roadway. A Waterbar is not designed to be traversable by logging trucks.

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SECTION 3. ROAD MAINTENANCE REQUIREMENTS SCHEDULE

Contract Road Maintenance Requirements Summary

| Road | Termini | | Miles | Applicable Prehaul Road Maintenance Specifications | | | | | | | | | |
|------|---------|-----|-------|--|------|------|------|-----|-----|-----|--|--|--|
| | From | To | | 1020 | 1030 | 4020 | 6020 | | | | | | |
| N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | |

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

| Road | Termini | | Miles | Applicable During Haul Road Maintenance Specifications | | | | | | | | | |
|-------|---------|-----|-------|--|------|------|------|--|--|--|--|--|--|
| | From | To | | 1020 | 1030 | 4020 | 6020 | | | | | | |
| 213 | 4 Notch | EOP | 3.0 | N/A | D | D | D | | | | | | |
| 213 A | 213 | EOU | 1.5 | N/A | D | D | D | | | | | | |
| 213 B | 213 | EOP | 1.1 | P | N/A | P | P | | | | | | |
| 2012 | 3 Notch | EOP | 0.9 | P | N/A | P | P | | | | | | |
| 2113 | 3 Notch | EOP | 1.1 | P | N/A | P | P | | | | | | |
| 206 A | 206 | EOP | 1.1 | P | N/A | N/A | P | | | | | | |
| 2061 | 206 A | EOP | 0.8 | P | N/A | P | P | | | | | | |

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

| Road | Termini | | Miles | Applicable Post Haul Road Maintenance Specifications | | | | | | | | | |
|-------|---------|-----|-------|--|------|------|------|--|--|--|--|--|--|
| | From | To | | 1020 | 1030 | 4020 | 6020 | | | | | | |
| 213 | 4 Notch | EOP | 3.0 | N/A | D | D | D | | | | | | |
| 213 A | 213 | EOU | 1.5 | N/A | D | D | D | | | | | | |
| 213 B | 213 | EOP | 1.1 | P | N/A | P | P | | | | | | |
| 2012 | 3 Notch | EOP | 0.9 | P | N/A | P | P | | | | | | |
| 2113 | 3 Notch | EOP | 1.1 | P | N/A | P | P | | | | | | |
| 206 A | 206 | EOP | 1.1 | P | N/A | N/A | P | | | | | | |
| 2061 | 206 A | EOP | 0.8 | P | N/A | P | P | | | | | | |

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

EOP = End Of Project EOU = End Of Use

SECTION 4. ROAD MAINTENANCE ACTIVITY SPECIFICATIONS

INCLUDED SPECIFICATIONS

| <u>Activity No.</u> | <u>Activity Specification Title</u> |
|---------------------|-------------------------------------|
| 1020 | Surface Blading (Dozer) |
| 1030 | Surface Blading (Grader) |
| 4020 | Roadway Mowing and Clearing |
| 6020 | Miscellaneous Structures |

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ACTIVITY 1020 - SURFACE BLADING (DOZER)

DESCRIPTION

1.1 Surface blading is keeping a native or aggregate surfaced Roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the Crown, Inslope or Outslope of the Traveled Way, Turnouts, and Shoulder; repairing Berms; blending approach road intersections; and cleaning bridge decks, Drainage Dips, and Lead-off Ditches. This work may be accomplished using a crawler tractor with a dozer blade capable of angling.

REQUIREMENTS

3.1 Surface blading shall be performed before, during, and after Purchaser's use as often as necessary to facilitate traffic and proper drainage.

3.2 The surface blading shall preserve the existing cross-section. Ruts, chuckholes and corrugations that affect the smoothness of ride do not have to be removed unless they become excessive or interfere with proper drainage. Surface Course Material which has been displaced to the Shoulders or Turnouts shall be returned to the Traveled Way. The blading operation shall be conducted to conserve surface Material and to provide for a thorough mixing of the Material being worked.

3.3 On native surfaced roads, Material generated from backslope Sloughing, and ditch cleaning may be blended with the surface Material being worked. On aggregate surfaced roads this Material shall not be blended with Surface or Base Course Material unless agreed otherwise.

3.4 Roadway backslopes shall not be undercut.

3.5 Drainage Dips and Lead-off Ditches shall be cleaned and maintained to retain the existing line, grade, and cross-section.

3.6 Intersecting roads shall be bladed for a distance of 50 feet to assure blending of the surfaces.

3.7 Rocks or other Material remaining on the Traveled Way after the final pass that are 4 inches in diameter or larger shall be removed. The unsuitable Material shall be disposed of by sidecasting unless agreed otherwise.

3.8 Material resulting from this activity shall not remain on or in structures, such as Culverts, cattle guards, ditches and Drainage Dips.

3.9 Material resulting from this activity, plus any accumulated debris, shall be removed from bridge decks and the deck drains opened.

ACTIVITY 1030 - SURFACE BLADING (GRADER)

DESCRIPTION

1.1 Surface blading is keeping a native or aggregate surfaced Roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the Crown, Inslope or Outslope of the Traveled Way, Turnouts, and Shoulder; repairing Berms; blending approach road intersections; and cleaning bridge decks, Drainage Dips, and Lead-off Ditches. This work shall be completed with a motor grader.

REQUIREMENTS

3.1 Surface blading shall be performed before, during, and after Purchaser's use as often as necessary to facilitate traffic and proper drainage.

3.2 The surface blading shall preserve the existing cross-section. Surface irregularities shall be eliminated and the surface left in a free-draining state and to a smoothness needed to facilitate traffic. Surface Course Material which has been displaced to the Shoulders or Turnouts shall be

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returned to the Traveled Way. The blading operation shall be conducted to conserve surface Material and to provide for a thorough mixing of the Material being worked.

3.3 On native surfaced roads, Material generated from backslope Sloughing, and ditch cleaning may be blended with the surface Material being worked. On aggregate surfaced roads this Material shall not be blended with Surface or Base Course Material unless agreed otherwise.

3.4 Roadway backslopes shall not be undercut.

3.5 Drainage Dips and Lead-off Ditches shall be cleaned and maintained to retain the existing line, grade, and cross-section.

3.6 Intersecting roads shall be bladed for a distance of 50 feet to assure blending of the surfaces.

3.7 Rocks or other Material remaining on the Traveled Way after the final pass that are 4 inches in diameter or larger shall be removed. The unsuitable Material shall be disposed of by sidecasting unless agreed otherwise.

3.8 Material resulting from this activity shall not remain on or in structures, such as Culverts, cattle guards, ditches and Drainage Dips.

3.9 Material resulting from this activity, plus any accumulated debris, shall be removed from bridge decks and the deck drains opened.

ACTIVITY 4020 - ROADWAY MOWING AND CLEARING

DESCRIPTION

1.1 This work includes removal of brush, trees and other vegetative growth from within the Roadway limits.

REQUIREMENTS

3.1 Vegetative matter within the Roadway which impedes vehicular travel or interferes with road maintenance operations, such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the Roadside in locations where the Traveled Way or sight distances will not be impaired.

3.2 Vegetative matter removed from the Roadway shall be uniformly placed on fill slopes unless agreed otherwise.

ACTIVITY 6020 - MISCELLANEOUS STRUCTURES

DESCRIPTION

1.1 Maintenance of miscellaneous structures includes cattle guards, gates, and other similar structures that have been previously installed to insure safe and efficient operation of the road.

MATERIALS

2.1 Any Materials needed in the maintenance of miscellaneous structures shall be similar in type and quality to the Material in the structure being maintained.

REQUIREMENTS

3.1 Cattle guards. Loose rails shall be welded or bolted back in place.

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Excess Material carried into the cattle guard shall be removed when drainage is blocked or when it reaches 6 inches from the bottom of the cattle guard frame. Drainage into and from the cattle guard shall be kept open.

3.2 Gates. Gates shall be kept in good repair and made to swing easily. Hinges or latches shall be repaired if not operating properly. Brush and debris shall be removed from within the swinging radius.