

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE TIMBER SALE CONTRACT (Applicable to Sales to be Measured before Felling)		Name of Purchaser	
National Forest Ottawa	Ranger District Bergland	Region Eastern	Contract Number
Sale Name Bluff View PR		Award Date	Termination Date 08/31/2017

The parties to this contract are The United States of America, acting through the Forest Service, United States Department of Agriculture, hereinafter called Forest Service, and _____ hereinafter called Purchaser.

Forest Service having advertised a sale at which either (1) Purchaser, whose required bid deposit is now held by Forest Service as an initial deposit, was the successful bidder, or (2) no bids were received and Purchaser having subsequently offered at least the minimum advertised price and made an initial deposit in the same amount as the bid deposit specified in the sale advertisement; and the parties hereto desiring to record their agreement; now therefore,

Unless provided otherwise herein, Forest Service agrees to sell and permit Purchaser to cut and remove Included Timber and Purchaser agrees to purchase, cut, and remove Included Timber.

This contract consists of three Divisions: AT - Specific Conditions, BT - Standard Provisions, and CT - Special Provisions, together with Sale Area Map, Plans and specifications for developments (if any), and such attachments as may be provided for in Division CT. Specific Conditions are numbered and apply to the Part, Section, Subsection, or Item of the Standard Provisions, as indicated hereunder. Other conditions of this contract are stated in Division CT - Special Provisions.

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the award date.

UNITED STATES OF AMERICA

Two Witnesses: ^{1/}

By: _____
 Contracting Officer

 (Name)

 (Title)

By: _____^{2/}
 (Purchaser)

 (Address)

 (Name)

 (Title)

 (Address)

 (Business Address)

I, ^{3/} _____, certify that I am the _____
 Secretary of the corporation named as Purchaser herein; that _____
 who signed this contract on behalf of Purchaser, was then _____
 of the corporation; that the contract was duly signed for and in behalf of the corporation by authority of its governing body, and is
 within the scope of its corporate powers.

**CORPORATE
 SEAL ^{4/}**

Sale Name: Bluff View PR

Contract No:

INSTRUCTIONS:

- 1/ The signatures and addresses of two witnesses are required if Purchaser is other than a corporation.
- 2/ If Purchaser is a co-partnership, the signatures should be: XYZ Company, by John Doe, a member of the firm. If Purchaser is a corporation, form of signature should be: XYZ Company, by John Doe, President (or other officer or agent) and the seal of the corporation must be impressed or indicated.
- 3/ The certificate must be completed if Purchaser is a corporation.
- 4/ If the corporation has no corporate seal that fact shall be stated, in which case a scroll or adhesive seal shall follow the corporate name.

EXAMPLE 1/

Subcontractor Certification
Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion

Timber Sale Name: _____
National Forest: _____

The prospective subcontractor (participants in lower tier covered transactions) certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this timber sale by any Federal department or agency.

Where the prospective subcontractor is unable to certify to any of the statements in this certification, such prospective subcontractor shall attach an explanation to this proposal.

Name of Subcontractor: _____
Business Address: _____

_____ Date _____ Signature

1/ It is the Purchaser's responsibility to have subcontractors complete this certification and to maintain a file of completed certifications. This certification does not need to be returned to the Forest Service, except at the written request of the Contracting Officer.

Sale Name: Bluff View PR

Contract No:

The following conditions apply to the indicated portions of Division BT - Standard Provisions Issued June 2006.

AT1 - Location and Area, applicable to BT1.1

This Sale Area of 622 acres more or less is located in:

T49N-R41W, S. 12, 13 & 24; Ontonagon County, Michigan

AT2 - Volume Estimate and Utilization Standards, applicable to BT2.1, BT2.2, BT2.4, and BT6.4

Species	Product	Estimated Quantity *	Unit of Measure	Minimum Specifications				
				Merchantable Tree		Piece Required to be Removed		
				Diameter Breast High (d.b.h.) (inches)	Number of Minimum Pieces per Tree	Length (feet)	Diameter Inside Bark at Small End (inches)	Net Scale in % of Gross Scale
Mixed Conifer	Sawtimber	8.00	CCF	9.0	1	8	7.6	40
Aspen	Pulpwood	2,128.00	CCF	5.0	1	8	4.0	70
Mixed Conifer	Pulpwood	114.00	CCF	5.0	1	8	4.0	70
Mixed Hardwood	Pulpwood	51.00	CCF	5.0	1	8	4.0	70
Total Quantity		2,301.00	CCF					

* Quantities not included here are described in BT2.4.

AT3- Timber Designations, applicable to BT2.3; acres are approximate:

	Number	Acres
Clearcutting Units (BT2.31)	_____	_____
Specified Road Clearing (BT2.32)	_____	_____
Overstory Removal Units (BT2.33)	_____	_____
Understory Removal Units (BT2.34)	_____	_____
Individual Trees (BT2.35)	_____	_____
Incompletely Measured Payment Units (BT2.36)	_____	_____

Sale Name: Bluff View PR

Contract No:

AT4 - Timber Payment Rates, applicable to BT3.1 and BT4.0

AT4a - For Species and Products to be Paid for at Rates Escalated under BT3.2

Not Applicable

AT4b- For Species and Products to be Paid for at Flat Rates

Species	Product	Unit of Measure	Rates per Unit of Measure				Required Deposits Slash Disposal \$
			Base \$	Advertised \$	Bid Premium \$	Bid (Flat) \$	
Mixed Conifer	Sawtimber	CCF	26.02	27.48			.00
Aspen	Pulpwood	CCF	5.39	5.65			.00
Mixed Conifer	Pulpwood	CCF	1.00	1.00			.00
Mixed Hardwood	Pulpwood	CCF	6.39	6.70			.00

For purposes of convenience in collection and bookkeeping, Bid Rates stated in AT4 include payment of deposits for sale area betterment required pursuant to 16 USC 576b. Such deposits are not included as Required Deposits defined hereunder.

Sale Name: Bluff View PR

Contract No:

AT4c - Schedule of Payment Units

Payment Unit No.	App rox. Acres	Quantity of Species and Products to be Escalated under AT4a	Total Tentative Payment \$	Quantity of Species and Products to be Paid for at Flat Rates under AT4b	Total Flat Rate Payment \$	Total Required Deposits for Slash Disposal \$
001	26			Mixed Conifer Sawtimber 3.00 CCF		.00
				Aspen Pulpwood 340.00 CCF		
				Mixed Conifer Pulpwood 18.00 CCF		
				Mixed Hardwood Pulpwood 10.00 CCF		
				Total PU Quantity And Value	371.00 CCF	
002	25			Mixed Conifer Sawtimber 5.00 CCF		.00
				Aspen Pulpwood 310.00 CCF		
				Mixed Conifer Pulpwood 8.00 CCF		
				Mixed Hardwood Pulpwood 8.00 CCF		
				Total PU Quantity And Value	331.00 CCF	
003	12			Mixed Conifer Sawtimber 0.00 CCF		.00
				Aspen Pulpwood 223.00 CCF		
				Mixed Conifer Pulpwood 6.00 CCF		
				Mixed Hardwood Pulpwood 0.00 CCF		
				Total PU Quantity And Value	229.00 CCF	
004	22			Mixed Conifer Sawtimber 0.00 CCF		.00
				Aspen Pulpwood 340.00 CCF		
				Mixed Conifer Pulpwood 11.00 CCF		
				Mixed Hardwood Pulpwood 23.00 CCF		
				Total PU Quantity And Value	374.00 CCF	
005	19			Mixed Conifer Sawtimber 0.00 CCF		.00
				Aspen Pulpwood 287.00 CCF		
				Mixed Conifer Pulpwood 34.00 CCF		
				Mixed Hardwood Pulpwood 1.00 CCF		
				Total PU Quantity And Value	322.00 CCF	
006	14			Mixed Conifer Sawtimber 0.00 CCF		.00
				Aspen Pulpwood 206.00 CCF		
				Mixed Conifer Pulpwood 10.00 CCF		
				Mixed Hardwood Pulpwood 0.00 CCF		
				Total PU Quantity And Value	216.00 CCF	
007	25			Mixed Conifer Sawtimber 0.00 CCF		.00
				Aspen Pulpwood 329.00 CCF		
				Mixed Conifer Pulpwood 17.00 CCF		
				Mixed Hardwood Pulpwood 1.00 CCF		
				Total PU Quantity And Value	347.00 CCF	
008	1			Mixed Conifer Sawtimber 0.00 CCF		.00
				Aspen Pulpwood 93.00 CCF		
				Mixed Conifer Pulpwood 10.00 CCF		
				Mixed Hardwood Pulpwood 8.00 CCF		
				Total PU Quantity And Value	111.00 CCF	

Sale Name: Bluff View PR

Contract No:

The following definitions are established for the terms used in AT4:

Base Rates are the lowest rates of payment for timber that are authorized by this contract. Base Rates remain constant throughout the life of this contract and are not subject to change by rate redetermination, except for reduction under BT3.31, BT3.32, or BT3.33.

Advertised Rates are the minimum acceptable Bid Rates for timber, exclusive of Required Deposits. These rates are those indicated by appraisal, with a cost allowance made for construction of Specified Roads listed in AT7, but are never less than Base Rates.

Bid Premium Rates are the amounts by which Purchaser's bid is in excess of Advertised Rates. The Bid Premium Rates are constant during this contract, except as provided in BT3.31, BT3.32, and BT3.33.

Bid Rates are the rates bid by Purchaser (exclusive of Required Deposits for slash disposal and road maintenance) and are the sum of Advertised Rates and Bid Premium Rates. Until a rate redetermination becomes effective, the Bid Rate for species and products in AT4a is the Tentative Rate that is subject to quarterly adjustment under BT3.2; for species and products in AT4b, the Bid Rate is the Flat Rate.

Required Deposits are deposits that Purchaser may be required to pay for slash disposal (16 USC 490) and road maintenance (16 USC 537). Required Deposits may be adjusted as part of a rate redetermination or a Contract Term Extension. The table shows only Required Deposits for slash disposal; road maintenance deposits, if any, are given in CT5.32#.

Base Index is the specified average of the lumber or other product selling value index used as the basis for computing adjustment in rates for variance in product selling value, as provided in BT3.2.

AT5 - Indices Used in Quarterly Adjustment, applicable to BT3.2

Not Applicable

AT6 - High Stumps, applicable to BT6.412

Species	Product	Maximum Stump Height (inches)
All	Sawtimber	14
All	Pulpwood	10

Sale Name: Bluff View PR

Contract No:

AT7 - Specified Roads, applicable to BT5.2

Name and Date of Governing Road Specifications: Federal Highway Administration Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects(2003)-english

Project		Design Class	Approx. Length (mi./km.)	Sheet Numbers and Approval Date	Performance Responsibility		
Road No.	Name				Survey	Design	Construction Staking 1/
600-F	FDR600-F (R) (segment .22 to .56)	Single Lane - 15 mph	.34 / .55	SR-1 to SR-32 05/28/2014	FS	FS	FS AC
600-H	FDR600-H (R) (segment .1 to .67)	Single Lane - 15 mph	.57 / .92	SR-1 to SR-32 05/28/2014	FS	FS	FS AC
600-K	FDR600-K (R) (segment 0 to .01)	Single Lane - 15 mph	.01 / .02	SR-01 to SR-02 05/28/2014	FS	FS	FS AC

1/ Indicate timing, i.e., before clearing (BC) or after clearing (AC). Applicable to BT5.212.

AT8 - Forest Service Engineering Completion Schedule, applicable to BT5.21

Road No.	Road Name	Type of Work	Completion Date
NOT APPLICABLE			

AT9 - Fire Precautionary Period, applicable to BT7.2

April 01 to November 15, inclusive

AT10 - Purchaser Responsibility to Furnish Crews and Equipment for:

Initial Fire Suppression, applicable to BT7.3

Within 5.0 road miles

Fire Suppression Reinforcement, applicable to BT7.312 and BT7.313

Within 20.0 road miles

AT11 - Purchaser's Obligation per Operations Fire, applicable to BT7.41

Maximum Amount: \$ \$1,000

AT12 - Termination Date, applicable to BT8.2

August 31, 2017

AT13 - Normal Operating Season, applicable to BT6.31, BT6.66, BT8.21 and BT9.3

First Period: December 15 to March 15, inclusive

Second Period: _____ to _____, inclusive

AT14 - Performance Bond, applicable to BT9.1

Performance Bond Amount: _____

Sale Name: Bluff View PR

Contract No:

AT15 - Downpayment, applicable to BT4.211

Downpayment Amount: _____

AT16 - Periodic Payment Amount, applicable to BT4.213

	<u>Periodic Payment Determination Date</u>	<u>Amount</u>
Initial Payment:	_____	_____
Additional Payment:	_____	_____

AT17 - Market-Related Contract Term Addition Producer Price Index, applicable to BT8.212

Index Name: Wood Chips Index Number: 3211135

AT18 - Inapplicable Standard Provisions

The following listed Sections, Subsections, or Items of Division BT - Standard Provisions - are hereby made inapplicable. (Instructions: List by reference number and title.)

BT4.211	DOWNPAYMENT
BT4.4	PAYMENTS NOT RECEIVED
BT8.212	MARKET-RELATED CONTRACT TERM ADDITION

AT19 - List of Special Provisions

The following listed special provisions are attached to and made a part of this contract as Division CT. Provisions with reference numbers followed by # contain blanks into which data have been entered for this sale. (Instructions: List by reference number, title, and date.)

CT2.302#	BOUNDARY TREES (06/2009)
CT2.355#	INDIVIDUAL TREES, CUT TREE MARKING (06/2009)
CT2.356#	INDIVIDUAL TREES, LEAVE TREE MARKING (06/2009)
CT4.211	DOWNPAYMENT (06/2007)
CT4.212	TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)
CT4.4	PAYMENTS NOT RECEIVED (08/2012)
CT5.111#	RIGHT-OF-WAY REVERSION (04/2004)
CT5.12#	USE OF ROADS BY PURCHASER (06/1999)
CT5.221#	MATERIAL SOURCES (04/2004)
CT5.31#	ROAD MAINTENANCE REQUIREMENTS (07/2001)
CT5.33#	SNOW REMOVAL (06/2009)
CT6.313#	CUTTING SCHEDULE (06/2009)
CT6.314#	OPERATING REQUIREMENTS (06/2009)
CT6.412	STUMP MARKS (06/2009)
CT6.62#	SITE SPECIFIC WETLANDS PROTECTION MEASURES (07/2001)
CT6.63#	TEMPORARY ROAD CLOSURE (06/2009)
CT6.7#	SLASH DISPOSAL MEASURES (06/2009)
CT7.2	FIRE PRECAUTIONS (06/2009)
CT8.212	MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

There are no pages 108-109.

Sale Name: Bluff View PR

CT2.302# - BOUNDARY TREES (06/2009)

Boundary trees for all harvest units have been designated with ORANGE (3 paint slashes at eye level facing into the Payment Unit for exterior boundaries; 2 paint slashes at eye level on each side of the boundary for interior boundaries) paint marks above and below stump height. Boundary trees shall not be cut.

CT2.355# - INDIVIDUAL TREES, CUT TREE MARKING (06/2009)

Individual trees to be cut are Marked with indicated color above and below stump height in all or parts of the following Payment Unit(s). Areas of cut tree marking are shown on the Sale Area Map with the symbol "CTM."

PAYMENT UNIT(S)

PAINT COLOR

Sale Name: Bluff View PR

Page 142

CT2.355# - INDIVIDUAL TREES, CUT TREE MARKING. (06/2009)

Cut Tree Marking Table

Payment Units	Paint Color
08 (Roads)	YELLOW

CT2.356# - INDIVIDUAL TREES, LEAVE TREE MARKING (06/2009)

Individual trees which are NOT TO BE CUT are Marked with indicated color above and below stump height in all or parts of the following Payment Unit(s). Areas of leave tree marking are shown on the Sale Area Map with the symbol "LTM."

Payment Unit	Paint Color
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Sale Name: Bluff View PR

Page 144

CT2.356# - INDIVIDUAL TREES, LEAVE TREE MARKING (06/2009)

Leave Tree Marking Table

Payment Unit(s)	Paint Color
01-07	ORANGE

CT4.211 - DOWNPAYMENT (06/2007)

The downpayment amount shown in AT15 may not be applied toward any other payment required under the provisions of this contract, except damages determined pursuant to BT9.4, transferred to other timber sales, or refunded until (a) stumpage value representing 25 percent of the total bid value of the timber sale is shown on Timber Sale Account to have been cut, removed, and paid for, or (b) the estimated value remaining to be cut and removed, as shown on Timber Sale Account, is equal to or less than the amount of the downpayment, or (c) if 36 CFR 223.49(e) is applicable, the estimated value remaining to be cut and removed, as shown on Timber Sale Account, is equal to or less than the amount of the downpayment. For lump sum timber sales, the downpayment may be applied to payment for release of the single payment unit.

If Forest Service makes a determination that this contract should not have been included under increased downpayment requirements (36 CFR 223.49(e)), the downpayment shall be revised and applied in accordance with 36 CFR 223.49(f).

CT4.212 - TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)

Notwithstanding BT4.211 or CT4.211, upon the Purchaser's written request Forest Service may temporarily reduce the downpayment when Purchaser's scheduled operations are delayed or interrupted for 30 or more consecutive days, or the contract term is extended for 30 or more consecutive days for any of the following reasons:

- (1) Forest Service requests or orders Purchaser to delay or interrupt scheduled operations for reasons other than breach;
- (2) Purchaser interrupts or delays scheduled operations to work on a sale designated by the Forest Service as in urgent need of harvesting; or
- (3) An adjustment of the contract term authorized upon a determination of substantial overriding public interest, including a market-related contract term addition, or an urgent removal contract term extension under 36 CFR 223.53.

When Purchaser is not cutting or removing timber under contract during a qualifying period of delay, interruption, or extension listed above the downpayment may be reduced to \$1000 or 2 percent of the downpayment amount stated in the contract, whichever is greater. The Purchaser must restore the downpayment to the full amount stated in the contract within 15 days from receipt of the bill for collection and written notice from the Contracting Officer that the basis for temporarily reducing the downpayment no longer exists. Purchaser shall not cut or remove timber on a contract where the downpayment has been temporarily reduced until the downpayment amount stated in the contract is fully restored.

CT4.4 - PAYMENTS NOT RECEIVED (08/2012)

(a) Payments are due and payable on the date of issue indicated on the bill for collection. When a payment for timber cut and other charges is not received at the location designated by Forest Service by the date specified in the bill for collection, Contracting Officer will suspend all or any part of Purchaser's Operations until payment or acceptable payment guarantee is received. Other charges include, but are not limited to:

- (i) Slash disposal and road maintenance deposits;
- (ii) Cooperative work at rates established by specific agreement under BT4.218;
- (iii) Damages pursuant to BT9.4;
- (iv) Road use fees;
- (v) Restoration of downpayment pursuant to BT4.22;
- (vi) Periodic payments pursuant to BT4.213;
- (vii) Extension Deposits pursuant to BT4.217; and
- (viii) Other mandatory deposits.

(b) Failure to pay amounts due by the date specified in the bill for collection shall be considered a breach under BT9.3. The 30-day notice period prescribed therein shall begin to run as of the end of business on the date specified for receipt of payments. If the performance or payment is guaranteed by surety bond, the surety will receive a copy of the written notification of breach. Demand will be made on the surety or other institution providing the guarantee or bond instrument for immediate payment 10 days after issuance of written notification of the breach.

(c) Pursuant to the Debt Collection Improvement Act of 1996, as amended, if payment is not received by Forest Service within 15 days after the date of issue indicated on the bill for collection:

- (i) Simple interest shall be assessed at the Current Value of Funds Rate as established by the Secretary of the Treasury. Interest will begin to accrue as of the date of issue indicated on the initial bill for collection.
- (ii) Debtors will be assessed administrative charges, in addition to the delinquent amount due. Administrative charges are those additional costs incurred by the Government in processing, handling, and collecting delinquent debts.
- (iii) A penalty charge of six (6) percent per annum will be assessed on any portion of a debt delinquent more than 90 days. This penalty charge is in addition to interest and administrative charges under paragraphs (c) (i) and (c) (ii). The penalty charge shall accrue from the date of issue indicated on the bill for collection and shall be assessed on all outstanding amounts, including interest and administrative costs assessed under paragraphs (c) (i) and (c) (ii).
- (iv) Payments will be credited on the date received by the Federal Depository or Collection Officer designated on the bill for collection.

(d) Forest Service remedies for Purchaser's failure to make payment for timber cut and other charges when due, except for accrual of interest, suspension of all or any part of Purchaser's Operations, and administrative offset, shall be stayed for so long as:

- (i) A bona fide dispute exists as to Purchaser's obligation to make such payment and
- (ii) Purchaser files and prosecutes a timely Claim.

Sale Name: Bluff View PR

CT5.111# - RIGHT-OF-WAY REVERSION (04/2004)

Rights-of-way will revert to the grantors unless the following roads are constructed prior to the dates shown:

See Reversion Date Table.

Purchaser may receive Contract Term Adjustment for failure to construct the roads prior to the reversion dates only when the failure is caused by circumstances that would qualify for Contract Term Adjustment.

Sale Name: Bluff View PR

Page 148

CT5.111# - RIGHT-OF-WAY REVERSION. (04/2004)

Reversion Date Table

Road Number	Grantor	Reversion Date
TEMP Road (Access to PU 03)	Thomas and Bonnie Burgess & Mark and Heather Burgess	12/31/2019

CT5.12# - USE OF ROADS BY PURCHASER (06/1999)

Purchaser's use of existing roads identified on Sale Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

Code	Use Limitations
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by the Forest Service to inform the public of use restrictions. Purchaser's use of roads coded R, A, or W shall be in accordance with the following restrictions:

See Restricted Road List Table.

Sale Name: Bluff View PR

Page 150

CT5.12# - USE OF ROADS BY PURCHASER. (06/1999)

Restricted Road List

Road Number	Road Name	Termini (miles)		Map Legend	Description of Restrictions
		From	To		
FR 600-F	FR 600-F	0.22	0.56	U	Unsuitable for hauling prior to completion of agreed reconstruction.
FR 600-H	FR 600-H	-	-	R	Gate (location on Sale Area Map) Shall be closed and locked during times of inactivity.
FR 600-H	FR 600-H	0.10	0.67	U	Unsuitable for hauling prior to completion of agreed reconstruction.
FR 600-H	FR 600-H	0.67	POE	P	Use Prohibited.
FR 600-K	FR 600-K	0.01	0.02	U	Unsuitable for hauling prior to completion of agreed reconstruction (Gate Installation).
FR 600-K	FR 600-K	0.61	0.73	X	Hauling Prohibited; use as a skid trail must be approved by the Forest Service.
FR 600-K	FR 600-K	0.73	POE	P	Use Prohibited.
All un-numbered roads				X	Hauling Prohibited; use as a skid trail must be approved by the Forest Service.
All un-numbered roads				P	Use Prohibited.

POB = Point of Beginning

POE = Point of Ending

Note: hauling includes empty or loaded log trucks.

CT5.221# - MATERIAL SOURCES (04/2004)

Sources of local materials are designated on Plans and Sale Area Map. Forest Service assumes responsibility for the quality and quantity of material in designated sources. Purchaser shall determine the equipment and work required to produce the specified product, including the selection of acceptable material that is reasonably available in the source that meets specifications. The designation of source includes the rights of Purchaser to use certain area(s) for plant site, stockpiles, and haul roads.

Should the designated source, due to causes beyond the control of Purchaser, contain insufficient acceptable material, Forest Service will provide another source with adjustment in accordance with BT5.253.

When Purchaser elects not to use designated sources, Purchaser shall furnish the specified product with no adjustment in unit rates. Quality testing shall be the responsibility of Purchaser. Test results shall be furnished to Forest Service.

When Purchaser elects not to use designated sources and the Schedule of Items lists pit development separately, cost allowance will be reduced under BT5.253 when Forest Service determines the work will not be required.

When materials are subject to a weight measurement, the specific gravity or weight/volume relationship used as a basis for determination of estimated quantities shall be:

Source I N/A, Source II N/A, and Source III N/A.

Purchaser may, when agreed in writing, use on the project such suitable stone, gravel, and sand, or other material found in the excavation, and will earn a cost allowance for the excavation of such materials at the corresponding contract unit price and for the pay items for which the excavated material is used. Purchaser shall replace, without additional cost allowance, sufficient suitable materials to complete the portion of the work, which was originally contemplated to be constructed with such material. Purchaser shall not excavate or remove any material, except that which is within the excavation limits, without written authorization from Forest Service.

When material is appraised from non-National Forest designated sources, owner charges for the material in terms of unit cost for royalties, purchase of raw materials, or finished products shall be as follows until N/A:

See Material Source Table.

Should quantity vary from that estimated, payment to owners shall be for units actually obtained. Purchaser shall make arrangements with owner(s) for measurement and payment for royalties, purchase of raw materials, or finished products, as shown above.

Materials produced or processed from National Forest lands in excess of the quantities required for performance of this contract are the property of Forest Service, unless prior written agreement has been obtained to use excess material on other National Forest sales. Forest Service is not obligated to reimburse Purchaser for the cost of their production.

Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials shall be located to facilitate their prompt inspection. Sites on Forest Service administered land, approved by Forest Service, may be used for storage purposes and for the placing of Purchaser's plant equipment. All storage sites provided by Forest Service shall be restored at Purchaser's expense. Purchaser shall be responsible for making arrangements for storage on other than Forest Service adminis-

Sale Name: Bluff View PR

tered lands.

When the construction of the portion of the project for which Temporary Roads used for hauling materials is completed, all such Temporary Roads shall be restored as nearly as practicable to their original ground profile, unless otherwise agreed in writing.

CT5.221# - MATERIAL SOURCES. (4/04)

Material Source Table

Material	Type of Purchase	Owner(s)	Unit of Measure	Unit Price	Estimated Quantity	Total
Pit Run	N/A	USFS	CY	N/A	427	427

NOTE: Pit restoration (per specifications) in the Norwich Pit shall be accomplished no later than the end of each operating season.

Sale Name: Bluff View PR

CT5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

See Contract Road Maintenance Requirements Summary Table.

WO-CT5.31# - ROAD MAINTENANCE REQUIREMENTS. (07/2001)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications								
	From	To		T-8030	T-8130	T-8310	T-8340	T-8350	T-8360	T-8620		
600-F	0.00	0.22	0.22			P	P		P	P		
600-H	0.00	0.10	0.10		P	P	P		P	P		
600-K	0.00	0.61	0.61		P	P	P		P			

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		T-8030	T-8130	T-8310	T-8340	T-8350	T-8360	T-8620		
600-F	0.00	0.56	0.56	P		P	P		P			
600-H	0.00	0.67	0.67	P		P	P		P			
600-K	0.00	0.61	0.61	P		P	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		T-8030	T-8130	T-8310	T-8340	T-8350	T-8360	T-8620		
600-F	0.00	0.56	0.56			P	P	P	P	P		
600-H	0.00	0.67	0.67			P	P	P	P	P		
600-K	0.00	0.61	0.61			P	P	P	P	P		

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

Sale Name: Bluff View PR

CT5.33# - SNOW REMOVAL (06/2009)

Snow removal shall be done in a manner that will preserve and protect roads, provide for safe and efficient transport of timber, and prevent erosion damage to streams and adjacent lands. In performing snow removal, Purchaser shall adhere to the following performance standards, unless otherwise agreed:

1. Blade will be equipped with skid shoes to prevent loss of surfacing and damage to the road bed. On gravel and native surface roads, a minimum 4-inch depth compacted snow mat will be maintained on the roadbed during blading.
2. Snow shall be removed from the entire road width, including turnouts.
3. Snow berms will be reduced at road intersections where plowed road segments join unplowed road segments. Reduce the piled snow in the roadway to create a smooth transition from plowed road to normal snow depth.
4. Openings will be created in snow berms as needed for proper drainage. Remove snow, ice, and debris from culverts and other drainage structures as needed to ensure efficient flow of water.
5. Tracked or cleated vehicles will not be used for snow removal without prior written approval of Forest Service Representative.

CT6.313# - CUTTING SCHEDULE (06/2009)

Unless changed by written agreement, only 4 Payment Units may be released at one time, and the sequence of cutting Payment Units shall be: Purchaser's option.

Unless there is agreement in writing to postpone specific requirements, all contractual requirements on a Payment Unit shall be accepted by Forest Service prior to the release of an additional Payment Unit.

CT6.314# - OPERATING REQUIREMENTS (06/2009)

Within Sale Area, unless changed by written agreement, the following operating requirements apply:

Restricted operations/activities:

Payment Units 001, 002, 004-007: Harvest operations are restricted during the period of 3/16 through 7/31 and 10/31 through 12/14 (due to soils).

Payment Units 003: Harvest operations are restricted during the period of 3/16 through 6/30 and 10/01 through 12/14 (due to soils).

Within the Sale Area, decked pine and other conifer material must be removed from the Sale Area within 30 days of cutting to minimize the potential breeding areas for pine beetles during the period of May 1 thru September 30.

Pit restoration (per specifications) in the Norwich Pit will be accomplished no later than the end of each operating season.

-
Prohibited operations/activities:

N/A

CT6.412 - STUMP MARKS (06/2009)

Trees designated for cutting under BT2.35 have been marked with paint at breast height and below stump height. Trees shall be felled so as to leave paint on stump.

CT6.62# - SITE SPECIFIC WETLANDS PROTECTION MEASURES (07/2001)

Measures needed to protect wetlands identified on the Sale Area Map or on the ground include:

All equipment, vehicles, and logging slash are prohibited from these areas. Any logging slash that falls within these areas shall be removed or treated, as directed by the Forest Service.

CT6.63# - TEMPORARY ROAD CLOSURE (06/2009)

Notwithstanding Standard Provision BT6.63, measures to effectively block temporary roads to normal vehicular traffic shall consist of the following:

Berm will be placed at an angle of 30 to 45 degrees, relative to the road. Dig a trench, 12 to 18 inches below the surface of the road or trail, and extend it to both sides of the road to prevent runoff from bypassing the berm/waterbar. The uphill end should extend beyond the side ditch of the road and into the earth berm to intercept any ditch flows. The outflow end is to be fully open and extended far enough beyond the edge of the road or trail to safely disperse runoff onto the undisturbed forest floor. When placement of the closure device does not require the berm to also function as a waterbar for drainage, the trench will not be required. Height of the berm will be approx 4 feet. Rocks/boulders, logging slash, cull logs, and stumps may be incorporated into the ridge of earth during construction as long as proper drainage is maintained and the road is completely blocked, unless otherwise agreed in writing.

CT6.7# - SLASH DISPOSAL MEASURES (06/2009)

Slash resulting from Purchaser's operations shall be removed from lakes, ponds, private land, right-of-way clearings for telephone lines, power lines, pipelines, and other authorized facilities, and landings to be seeded under Special Provision CT6.6#.

The tops of felled trees shall not be left hanging in standing trees. All trees cut or pushed for landing and other construction clearings shall be completely felled and not left leaning. Slash resulting from construction clearing shall be treated concurrent with operations.

Slash Disposal treatment zones are shown on the Sale Area Map with symbol "SDZ."

Other specific slash disposal requirements are as follows:

SDZ -Within Payment Units 001-008 - Slash resulting from construction clearing (such as from landings, temporary roads, ROW clearing associated with pre-haul road maintenance requirements listed in CT5.31#), including Specified Road construction, shall be lopped and scattered to lie within 3 feet of the ground. All root wads will be severed from the stem and righted on the ground or otherwise disposed of as directed by the Forest Service, concurrent with operations.

SDZ(1) - (Payment Units 001, 004, and entrances of FR 600-F, 600-H, and 600-K) - Within a strip of 25 feet in width, measured from the edge of the road as shown on the Sale Area Map, all slash resulting from Purchaser's operations shall be removed, concurrent with operations.

Within an adjacent strip 25 feet in width, all slash shall be lopped and scattered to lie within 3 feet of the ground, concurrent with operations.

SDZ(2) (shown on the Sale Area Map in Payment Units 001-008) - All slash resulting from Purchaser's operations shall either be 1) left at the stump when severed from the merchantable portion of the stem, 2) delimbed in place when bunched with processor-type equipment prior to skidding/forwarding to a central processing point, or 3) spread back evenly across the payment unit, concurrent with operations.

CT7.2 - FIRE PRECAUTIONS (06/2009)

Unless other methods are agreed to in writing between the Purchaser and the Contracting Officer, the following specific precautionary measures are applicable during Purchaser's Operations in Fire Precautionary Period indicated in AT9.

1. Purchaser shall maintain Forest Service-approved spark arresting device on any piece of equipment operated by an internal combustion motor. In addition, each piece of motorized equipment shall be equipped with a serviceable round-pointed shovel and an operational fire extinguisher of at least five-pound rating suitable for the equipment being used. All chainsaw operators will have a serviceable round-pointed shovel and a one-pound multipurpose fire extinguisher readily available.
2. Purchaser shall require that smoking and the building of lunch or warming fires by Purchaser's employees, contractors, or employees of contractors be confined to designated safe places where flammable debris has been cleared away and where, at the option of the Purchaser, smoking or the building of lunch or warming fires may be permitted.
3. Adequate spark arresters shall be maintained on chimneys or stovepipes where wood or coal is being burned in an enclosed device.
4. Purchaser shall furnish serviceable firefighting tools. Location, numbers, and types of tools shall be specified in the Fire Prevention and Control Plan in accordance with BT7.1.

CT8.212 - MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

The term of this contract may be adjusted when a drastic reduction in wood product prices has occurred in accordance with 36 CFR 223.52. The Producer Price Index used to determine when a drastic reduction in price has occurred is stated in AT17. Purchaser will be notified whenever the Chief determines that a drastic reduction in wood product prices has occurred. If the drastic reduction criteria specified in 36 CFR 223.52 are met for 2 consecutive calendar quarters, after contract award date, Contracting Officer will add 1 year to the contract term, upon Purchaser's written request. For each additional consecutive quarter such a drastic reduction occurs, Contracting Officer will, upon written request, add an additional 3 months to the term during Normal Operating Season, except that no single 3-month addition shall extend the term of the contract by more than one year. Contracting Officer must receive Purchaser's written request for a market-related contract term addition before the expiration of this contract.

No more than 3 years shall be added to a contract's term by market-related contract term addition unless the following conditions are met:

(i) The sale was awarded after December 31, 2006; and

(ii) A drastic reduction in wood product prices occurred in at least ten of twelve consecutive quarters during the contract term, but not including the quarter in which the contract was awarded.

For each qualifying quarter meeting the criteria in paragraphs (i) and (ii) of this provision, the Forest Service will, upon the Purchaser's written request, add an additional 3 months during the normal operating season to the contract, except no single 3-month addition shall extend the term of a contract by more than 1 year.

In no event shall a revised contract term exceed 10 years as a result of market-related contract term addition.

Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS
FS-2400-6T Contracts (06/06)
CT5.31## Special Provisions

SECTION 1. GENERAL

Purchaser's main Road 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 (CO) or designee shall determine the Purchaser's commensurate share of road maintenance and/or revise road maintenance deposits.

Unless the CO or designee agrees in writing, all Prehaul Maintenance requirements shall be completed on any portion of road prior to hauling on that portion.

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

Any work or materials that are determined to no longer be needed and are waived shall have the estimated cost charged to the Timber Sale Account as described in **BT8.31**.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS
FS-2400-6T Contracts (06/06)
CT5.31## Special Provisions

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.

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.

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

During Haul Maintenance. Road maintenance work to be accomplished during the period of timber removal.

Geotextile. A group of construction fabrics with varying attributes designed for different purposes.

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

Maintenance Activity. Items of work leading to the 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.

Post Haul Maintenance. Road maintenance work to be accomplished after timber removal is completed.

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.

Road Maintenance Cost. An estimate of the cost to perform road maintenance activities; as determined by the Forest Service. Estimates may include any or all of the work activities listed in Section 4, Road Maintenance Activity Specifications.

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.

Sand Hole. A hole that develops in the running surface of the road which is quite soft and dangerous in nature. Usually found in very sandy soils.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS
FS-2400-6T Contracts (06/06)
CT5.31## Special Provisions

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.

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SCHEDULE

See Summary in **CT 5.31#**.

SECTION 4. ROAD MAINTENANCE SPECIFICATIONS

INCLUDED SPECIFICATIONS

<u>Specification No.</u>	<u>Specification Title</u>
T-8030	Snow Removal
T-8130	Spot Surface Course Placement/Replenishment
T-8310	Ditch Cleaning
T-8340	Drainage Structure Maintenance
T-8350	Roadway Drainage Maintenance
T-8360	Composite High Clearance Road Maintenance
T-8620	Miscellaneous Maintenance

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS
FS-2400-6T Contracts (06/06)
CT5.31## Special Provisions

T-8030 Snow Removal

DESCRIPTION

- 1.1 This Section provides for removal of snow from roads to facilitate logging operations and safe use. Remove snow from all or part of the traveled way, including sufficient turnouts for safe and efficient use for timber transportation and to protect the road. Remove intruding windfalls, debris or slough and slide material and dispose of only as necessary to provide passage for timber transportation. Removed materials may be deposited off the traveled way or outside the traveled way at locations designated by the Forest Service Representative (FSR). Snow may also be compacted as needed to freeze down soft areas or wet areas. This work is considered part of this specification. Equipment used for this work shall be in accordance with this specification and approved in advance by the FSR.

EQUIPMENT

- 2.1 Purchaser may use any type of equipment to remove snow, providing:
- a. Type or use of equipment is not restricted in **CT5.12#** or Schedule document.
 - b. Equipment is of the size and type commonly used to remove snow and will not cause damage to the road. Tracked or cledated vehicles shall not be used unless approved in writing by the FSR.
 - c. The Blade will be equipped with skid shoes to prevent loss of surfacing and damage to the road bed. On gravel and native surface roads, a minimum 4 -inch depth compacted snow mat will be maintained on the roadbed during blading.

REQUIREMENTS

- 3.1 Erect signs required by the Sign Plan in the SUPPLEMENTAL SPECIFICATIONS or as shown on the Section 3. Road Maintenance Requirements Schedule. Perform work in a manner to preserve and protect roads and appurtenances, and prevent erosion damage to roads, streams, and other forest values.
- 3.2 Space, construct, and maintain drainage holes in the dike of snow or berm caused by snow removal operations. Place drain holes to obtain surface drainage without discharging on erodible fills.
- 3.3 Upon seasonal completion of Purchaser's Operations, effectively block the road by a snow barricade, unless otherwise approved by the Contracting Officer.
- 3.4 Ice control may be performed by Purchaser when approved by the FSR in writing. Such approval will include ice control materials, application rates, and any specific requirements of use.
- 3.5 Snow berms will be reduced at road intersections where plowed road segments join unplowed road segments. Reduce the piled snow in the roadway to create a smooth transition from plowed road to normal snow depth.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS

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

CT5.31## Special Provisions

T-8130 Spot Surface Course Placement/Replenishment

DESCRIPTION

1.1 Spot Surface Course Placement/Replenishment includes Subgrade preparation, furnishing, hauling, spreading and shaping materials in accordance with the requirements.

MATERIALS

2.1 Surface Course Material will be in accordance with the subsection 3.2 of these specifications. Only commercial sources of aggregate will be accepted, except surfacing material may also be purchased from the government, where available, by filling out a form 2600, paying the required fees, and obtaining a permit.

REQUIREMENTS

3.1 Subgrade Preparation. Prepare Subgrade to receive Surface Course Material at locations as designated on-the-ground by the Forest Service on roads listed below. Prepare the Subgrade by shaping the Roadbed to approximately the original cross-section and consistent with adjacent sections.

3.2 Furnish, haul and spread Material at locations designated on the ground by the Forest Service (FS). Compact the aggregate by operating spreading and hauling equipment over the full width of each layer of the aggregate, or by other methods as specified below.

Road Number	Type Material	Finished Compacted Thickness Specified	Total Quantity (Tons or cu.yds.)	Compaction Method
600-H (MP 0.00 – 0.01)	Crushed Aggregate ³	As Directed by Forest Service	15 CY (19.5 CY) ^{2/}	See 3.2 Above
600-K (MP 0.00 – 0.03)	Pit Run Gravel ^{1/}	100' L x 12' W x 8" D	30 CY (39 CY) ^{2/}	See 3.2 Above
600-K (MP 0.00 – 0.01)	Crushed Aggregate ³	As Directed by Forest Service	15 CY (19.5 CY) ^{2/}	See 3.2 Above
600-K (MP 0.51)	Local Borrow	Excavate Left. Improve Radius, Place Over Culvert.	As Directed By Forest Service	See 3.2 Above

^{1/}Norwich Pit (as shown on Sale Area Map)

^{2/}Quantity of Material in () = Approximate Loose Volume

^{3/}Furnish, Haul, Place. Must Meet M-DOT Designation 22A.

3.3 Variations. The Purchaser will be required to furnish weight tickets to the FS for each load of commercially obtained crushed aggregate prior to the final inspection. For aggregate purchased from the government, a count of truck loads will be required in addition to finished depth checks for the placed and compacted aggregate. Widths and lengths will be as staked or from schedule. When it is mutually agreed that all or part of the Surface Course Material is not needed, the estimated cost of surfacing not placed shall be charged to the Timber Sale Account in accordance with **BT8.31**.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS
FS-2400-6T Contracts (06/06)
CT5.31## Special Provisions

T-8310 Ditch Cleaning

DESCRIPTION

- 1.1 Ditch cleaning is the removal and disposal of all accumulated organic and Slough Material from Roadway ditches to provide a positive draining waterway of uniform width, depth, and grade.

REQUIREMENTS

- 3.1 Ditch cleaning shall be repeated during sale operations as often as necessary to facilitate proper drainage.
- 3.2 All Slough Material or other debris which might obstruct water flow in the Roadway ditch shall be removed. Material removed from ditches that are not suitable for blending into the existing surface course shall be disposed of in places agreed to in writing by the FSR.
- 3.3 Roadway back slopes shall not be undercut.

T-8340 Drainage Structure Maintenance

DESCRIPTION

- 1.1 This work consists of maintaining and/or installation/removal of Drainage Structures and related items such as: inlet and outlet channels, existing riprap, trash racks, necessary geotextiles, pipes, and drop-inlets.

MATERIALS

- 2.1 All Materials used in the maintenance and/or installation/removal of Drainage Structures shall conform by type and specification to the Material in the structure being maintained or as indicated in the subsection 3.3 below.

REQUIREMENTS

- 3.1 Drainage Structures and related items shall be cleared of all foreign Material deposited above the bottom of the structure and all vegetative growth which interferes with the water flow. Material removed that cannot be incorporated into maintenance work shall be uniformly placed on fill slopes unless agreed otherwise.
- 3.2 Perform maintenance to insure the proper functioning of the head walls, aprons, inlet assemblies, riprap, trash racks and other facilities related to the Drainage Structure.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS

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

CT5.31## Special Provisions

3.3 Install/remove ditches, drainage dips, rock crossings and/or culverts as shown below, and as marked on the ground. Installation of structures shall not begin without the presence of a FSR unless agreed to in writing by the FSR.

Road Number	Location	Remove/Install	Type of Structure	Size	Quantity
600-K	MP 0.00 – 0.61	Install	Add'l Leadout Ditches ^{1/}	As Directed	^{2/}
600-K	MP 0.07	Remove/Dispose	Culvert	Existing	1
600-K	"	Install	Culvert ^{3/}	15"x24'	1
600-K	"	Install	Inlet and Outlet Ditches	30'	1 each
600-K	MP 0.10	Remove/Dispose	Culvert	Existing	1
600-K	"	Install	Culvert ^{3/}	15"x24'	1
600-K	"	Install	Inlet and Outlet Ditches	30'	1 each
600-K	MP 0.15	Remove/Dispose	Culvert	Existing	1
600-K	"	Install	Culvert ^{3/}	15"x24'	1
600-K	"	Install	Inlet and Outlet Ditches	30'	1 each
600-K	MP 0.20	Remove/Dispose	Culvert	Existing	1
600-K	"	Install	Culvert ^{3/}	15"x24'	1
600-K	"	Install	Inlet and Outlet Ditches	30'	1
600-K	MP 0.23	Remove/Dispose	Culvert	Existing	1
600-K	"	Install	Culvert ^{3/}	15"x24'	1
600-K	"	Install	Inlet and Outlet Ditches	30'	1 each
600-K	MP 0.29	Improve/Restore	Ditches, Left and Right	Existing	2
600-K	MP 0.50	Remove/Dispose	Culvert	Existing	1
600-K	"	Install	Culvert ^{3/}	15"x30'	1
600-K	"	Install	Inlet and Outlet Ditches	30'	1 each

^{1/} Per Typical Inlet and Outlet Ditch Drawing

^{2/} As Directed by Forest Service

^{3/} Smooth lined, dual walled, high density polyethylene drainage pipe

3.4 Installation shall be in accordance with construction industry standards and practices.

3.5 Culverts designated for removal/disposal shall become the property of the Purchaser and shall be disposed of properly.

3.6 Temporary culverts provided by the USFS shall remain the property of the government.

3.7 Bridges. Any miscellaneous parts needing repair or replacement during normal use of any bridge during haul shall be considered maintenance. This includes minor items such as object markers, running planks that have loosened or cracked deck boards, or drainage structures which may become plugged. Bridge decks that are dirt and dust covered shall be cleaned to allow for proper drainage and for safety of the user.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS
FS-2400-6T Contracts (06/06)
CT5.31## Special Provisions

T-8350 Roadway Drainage Maintenance

DESCRIPTION

1.1 This work consists of providing Post Haul drainage on roads.

MATERIALS

2.1 All Materials used in the maintenance and/or installation/removal of Drainage Structures shall conform by type and specification to the Material in the structure being maintained, or as indicated in subsection 3.3.

REQUIREMENTS

- 3.1 Upon completion of work, shape the roadway to provide for the removal of surface water. The roadway need not be passable to vehicles (ML-1 roads). Repair and reinstall waterbars, barriers or berms existing prior to the Purchaser's operation. Areas where water is ponded by existing centerline profile sags in through cuts may be left untreated.
- 3.2 Any of the following methods are acceptable for use at eroded or rutted locations:
- (a) Method A: Outsloping the roadbed at not less than ½ inch per yard of width.
 - (b) Method B: Insloping the roadbed at not less than ½ inch per yard of width.
 - (c) Method C: Water bar roadbed at locations staked on the ground and construct as shown on the enclosed detail.
 - (d) Method D: Crown the roadbed as shown in the attached detail as the typical section for that length of road.
- 3.3 Drainage structures located in roadbed through fills and natural watercourses shall be fully functional without obstructions, including inlet and outlet channel within 20 feet of the structure (**all structures within termini indicated in CT5.31# Summary Table**).
- 3.5 Entrance Devices. Upon completion of work, replace entrance devices to effectively eliminate access by motorized vehicles (ML-1).
- 3.6 Seed and fertilize all disturbed areas in accordance with requirements set forth in T-8410 Vegetation Establishment.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS
FS-2400-6T Contracts (06/06)
CT5.31## Special Provisions

T-8360 Composite High Clearance Road Maintenance

DESCRIPTION

- 1.1 This work consists of making limited use roads passable for project use by Purchaser and providing drainage from the traveled way and roadbed.

MATERIALS

- 2.1 Required materials are listed in subsection 3.2.

REQUIREMENTS

3.1 Traveled Way

A. Purchaser may smooth or fill existing cross ditches and waterbars and, by agreement, modify existing road junction to enable vehicle access. Prior to beginning haul and resumption of haul after an extended stoppage:

1. Remove brush, fallen trees, rocks, and other debris from traveled way, including turnouts, turnarounds, and other locations that interfere with needed maintenance. No object extending over 4 inches above the road surface shall remain within the 12 feet usable traveled way.
2. Center the usable width of the roadbed or position away from the fill slope.
3. Cut and remove standing or down trees, logs, brush, and limbs from within the 12 feet usable traveled way. Remove encroaching limbs to a height of 14 feet above the traveled way surface. Scatter material not meeting utilization standards outside and below the roadbed on the fill side. Limb and remove designated timber which meets utilization standards or deck at agreed locations.
4. Place all removed material away from drainages and in locations previously agreed to in writing by the FSR.
5. During use, maintain drainage structures including dips, ditches and culverts in a usable condition and surface in a flat, Insloped or Outsloped, or Crowned usable condition.

3.2 Drainage Facilities. Clean and recondition drainage facilities in accordance with T-8310 Ditch Cleaning and T-8340 Drainage Structure Maintenance. **See Table in T-8340 for new structures; maintain all other structures per 3.1, item 5 above within termini indicated in CT5.31# Summary Table.**

3.3 Slough and Slides

1. Slough and Slides may be left in place provided surface drainage is adequately provided and at least 12 feet of width is available for vehicle passage.
2. Purchaser may reposition or ramp over Slides and Slough when the Traveled Way is less than 12 feet providing the material is capable of supporting vehicles. Limit Outslope to no more than six percent.
3. Reposition Slough or Slide materials, which are not capable of supporting a vehicle, on the roadbed to provide the 12 feet width. When directed by Forest Service, Slough or Slide material will be removed under Section T-8320 Slide, Slump, and Erosion Repair.

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS

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

CT5.31## Special Provisions

3.4 Slumps, Eroded areas, and Washouts

1. Drain the roadbed immediately upgrade of Slumps and longitudinal cracks to prevent water from entering Slump area.
2. Slumps and longitudinal cracks at the edge of the roadbed shall not be considered a part of the usable width. Usable width may be reduced to ten feet in the area of the Slump.
3. Unless Forest Service agrees to material being placed on Slumps, ramp the Slumps on

both ends into undisturbed roadbed to provide at least ten feet usable width. Use removed materials to guide vehicles to the ramp location or to aid in draining the area.

4. Eroded areas/washouts may be filled with suitable material and compacted by operating equipment over the fill area.

3.5 Posthaul

A. At the end of hauling or prior to entering into seasonal shutdowns or a period of extended inactivity:

1. Shape the traveled way and disturbed roadbed to provide functional drainage.
2. Reinstall removed cross ditches and waterbars and provide any additional drainage structures necessary to offset changes caused through use and maintenance.
3. Leave roads useable for high clearance vehicles. Remove or reshape Purchaser modifications at road junctions to leave the entrance as it was before use, or as agreed at the time of improvement.
4. Close all roads which were closed previously, using prior existing methodology.

T-8620 Miscellaneous Maintenance

DESCRIPTION

- 1.1 Maintenance of miscellaneous structures includes cattle guards, gates (this includes all types of closure devices such as logs, rocks, dirt berms, dirt and slash berms, metal gates, etc), signs, 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. Excess Material carried into the cattle guard shall be removed when drainage is blocked or when it reaches six inches from the bottom of the cattle guard frame. Drainage into and from the cattle guard shall be kept open.
- 3.2 Gates (and other closure devices). 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

BLUFF VIEW PR ROAD MAINTENANCE REQUIREMENTS

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

CT5.31## Special Provisions

be removed from within the swinging radius. Weathered berms or wood piles shall be reconstructed to a height which discourages use and blocks the road.

3.3 Signs. Any signs needing repair or replacement shall be installed per sign placement detail or MUTCD direction. All roads shall have legible sign numbers. ML 3-5 roads shall have horizontal numbering and ML 1-2 roads shall have vertical numbers. The material used shall be as directed by the Forest Service Representative. All new signs must meet retro reflectivity requirements.

Road Number	Road Name	Location	Remove/Install	Type of Item	Size	Quantity
600-F	600-F	MP 0.02	Remove/Install ^{1/}	Earthen Berm ^{2/}	^{3/}	1
600-H	600-H	MP 0.01	Maintain	Gate	20'	1
600-K	600-K	MP 0.02	Maintain	Gate	20'	1

^{1/} At Location Designated by Forest Service

^{2/} OHV Passable Berm

^{3/} Per Typical Drawing—Earthen Berms/Road Closure Devices

**Bluff View Timber Sale
SPECIFIED ROAD WORK SCHEDULE OF ITEMS**

Date: 05/28/2014

Page 1 of 8

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 600-F M.P. 0.22-0.56	R			W		
249 02	Shape road to crown/out slope to match typical drawing as directed by the Forest Service. Shape road to match existing terrain and allow for cross drainage and widen travel surface. Work includes clearing and grubbing.		DQ/Mile	0.34		\$3,600.00	\$1,224.00
					FR 600-F segment = \$1,224.00		
	FR 600-H M.P. 0.10-0.67	R			W		
249 02	Shape road to crown/out slope to match typical drawing as directed by the Forest Service. Restore ditches. Incorporate ditch material to protect pipes and improve culvert inlet outlet ditches. Work includes clearing and grubbing.		DQ/Mile	0.57		\$3,000.00	\$1,710.00

Page 2 of 8

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 600-H (cont.) MP. 0.10	R			W		
249 03	Construct special widened ditch right and shape channel inlet. Remove ash tree and reshape channel to parallel road. Use available rock to armor road edge right.		LS/LSQ	1.0		\$100.00	\$100.00
	MP 0.11	R			W		
203 04	Remove and place culvert in adjacent area. Replace excavated materials. Work includes preparing culvert bed.		LS/LSQ	1.00		\$200.00	\$200.00
	MP 0.12	R			W		
602 74	Furnish and Install 30" x 30' High density polyethylene dual walled drainage pipe. Construct outlet ditch at pipe location. Ditch right to drain to pipe inlet.		LF/DQ	30		\$42.00	\$1,260.00
	MP 0.10-0.13	R			W		
204 03	Local borrow right side of road excavate 87 C.Y. place over pipe location. (150' L x 13' W x 1' D (additional 15 C.Y. for hole in travelway).		DQ/CY	87		\$5.00	\$435.00

Page 3 of 8

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 600-H (cont.) MP 0.10-0.13 (cont.)						
204 52	Haul and place 72 C.Y. pit run (94 C.Y. loose) place over local borrow. (150' L x 13' W x 1' D).		DQ/CY	72		\$12.00	\$864.00
	MP 0.16	R			W		
203 04	Remove and place culvert in adjacent area. Prepare culvert bed for pipe installation.		LS/LSQ	1		\$250.00	\$250.00
602 74	Furnish and Install 15" x 30' High density polyethylene dual walled drainage pipe. Construct outlet ditch at pipe location. Extend ditch from existing culvert to provide drainage to new pipe.		LF/DQ	30		\$14.00	\$420.00
	MP 0.24	R			W		
203 04	Remove and place culvert in adjacent area. Prepare/ lower culvert bed for pipe installation.		LS/LSQ	1		\$200.00	\$200.00
602 74	Furnish and Install 12" x 24' High density polyethylene dual walled drainage pipe and improve outlet ditch.		LF/DQ	24		\$11.00	\$264.00

Page 4 of 8

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 600-H (cont.) MP 0.23-0.25	R			W		
204 62	Haul and place 30C.Y. pit run (39 C.Y. loose) over pipe location. (100' L x 12' W x 8" D).		DQ/CY	30		\$12.00	\$360.00
	MP 0.32	R			W		
203 04	Remove and place culvert in adjacent area. Prepare/ lower culvert bed for pipe installation.		LS/LSQ	1		\$200.00	\$200.00
602 74	Furnish and Install 12" x 24' High density polyethylene dual walled drainage pipe and improve outlet ditch.		LF/DQ	24		\$11.00	\$264.00
	MP 0.31-0.33	R			W		
204 52	Haul and place 30C.Y. pit run (39 C.Y. loose) over pipe location. (100' L x 13' W x 8" D).		DQ/CY	30		\$12.00	\$360.00
	MP 0.36	R			W		
203 04	Remove and place culvert in adjacent area. Prepare/ lower culvert bed for pipe installation.		LS/LSQ	24		\$26.00	\$264.00
602 74	Furnish and Install 24" x 24' High density polyethylene drainage pipe and improve outlet ditch.		LF/DQ	24		\$26.00	\$624.00

Page 5 of 8

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 600-H (cont.) MP 0.35-0.37	R			W		
204 62	Haul and place 30 C.Y. pit run (39 C.Y. loose) over pipe location. (100' L x 12' W x 8" D).		DQ/CY	30		\$12.00	\$360.00
	MP 0.39	R			W		
203 04	Remove and place culvert in adjacent area. Prepare/ lower culvert bed for pipe installation.		LS/LSQ	1		\$200.00	\$200.00
602 74	Furnish and Install 12" x 24' High density polyethylene dual walled drainage pipe and improve outlet ditch.		LF/DQ	24		\$11.00	\$264.00
	MP 0.38-0.40	R			W		
204 52	Haul and place 30 C.Y. pit run (39 C.Y. loose) over pipe location. (100' L x 12' W x 8" D).		DQ/CY	30		\$12.00	\$360.00
	MP 0.49	R			W		
203 40	Remove and place culvert in adjacent area. Work includes preparing culvert bed and outlet/inlet.		LS/LSQ	1		\$250.00	\$250.00

Page 6 of 8

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 600-H (cont.) MP 0.49	R			W		
602 74	Furnish and Install 30" x 30' High density polyethylene dual walled drainage pipe. Construct outlet ditch at pipe location. Extend ditch from existing culvert to provide drainage to new pipe installation.		LF/DQ	30		\$42.00	\$360.00
204 52	Haul and place 15C.Y. pit run (19.5 C.Y. loose) over pipe location.		DQ/CY	15		\$12.00	\$180.00
	MP 0.53	R			W		
203 04	Remove two culverts and place in adjacent area. Replace excavated materials. Prepare one culvert bed and inlet outlet ditches.		LS/LSQ	1		\$300.00	\$300.00
602 74	Furnish and Install 30" x 30' High density polyethylene dual walled drainage pipe. Construct outlet ditch at pipe location.		LF/DQ	30		\$420.0	\$1,260.00
	MP 0.52-0.54	R			W		
204 03	Haul and place 30 C.Y. pit run (39 C.Y. loose) over pipe location. (100' L x 12' W x 8" D).		DQ/CY	30		\$12.00	\$360.00

Page 7 of 8

Item No.	Road Number & Item Description	C or R ¹	Unit of Measure & M of M ²	Quantity	Road Standard (W, D, S) ³	Unit Allowance	Estimated Allowance
	FR 600-H (cont.) MP 0.56	R			W		
203 04	Remove and place culvert in adjacent area. Prepare/ lower culvert bed for pipe installation. Shape outlet ditch.		LD/LSQ	1		\$200.00	\$200.00
602 74	Furnish and Install 12" x 24' High density polyethylene drainage pipe and improve outlet ditch.		LF/DQ	24		\$11.00	\$264.00
	MP 0.55-0.57	R			W		
204 52	Haul and place 30C.Y. pit run (39 C.Y. loose) place over pipe location. (100' L x 12' W x 8" D).		DQ/CY	30		\$12.00	\$360.00
							FR 600-H segment = \$13,379.00
	FR 600-K M.P. 0.01	R			W		
203 01	Removal and disposal of steel gate off Government Property.		LS/LSQ	1		\$200.00	\$200.00
	MP 0.02	R			W		
605 01	Road Closure Device. Furnish and Install 3' x 20' Forest Service Steel Gate as directed by the Forest Service (see AutoCAD Typical for construction maintenance requirements.		Each/AQ	1		\$1,500.00	\$1,500.00
							FR 600-K segment = \$1,700.00

SR-7

Total Specified Roadwork Appraisal = \$16,303.00
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Prepared by: Eric Cromell, Civil Engineering Technician

- ¹C = Construction
- ¹R = Reconstruction
- ²Method of Measure
- ³W = Winter
- ³D = Dry Summer
- ³S = Summer

**BLUFF VIEW TIMBER SALE
SPECIFIED ROAD APPRAISAL NOTES**

- NOTE: The construction requirements for composite road construction slash disposal shall be Method A as described in the supplemental specification Item 249.
- NOTE: Construct the road bed to conform to the typical detail as noted in the narrative description.
- NOTE: During borrow hauling operations "**Trucks Hauling**" signs shall be placed as directed by the Forest Service.
- NOTE: There may be underground utility lines in unknown locations on this project. Call MISS DIG **three full working days** before any work begins. Phone 1-800-482-7171.
- NOTE: There is 267 C.Y. unclassified pit run borrow on this project. This volume plus the compaction factor of 130% for unclassified pit run computes to a loose volume of 347 C.Y. This material is to be taken from the Norwich Pit located in the following location: SE $\frac{1}{4}$, SW $\frac{1}{4}$, Section 13, T50N-R41W. Some pit development may be required and is considered incidental to associated items. This material may be used with no cost to the purchaser. Other sources may be substituted with prior approval of the Forest Service.
- NOTE: During pit run borrow hauling operations, trucks hauling signs shall be placed on Norwich Road to warn motorist of hauling operations. No hauling shall be permitted until signing is in place as directed by the Sale Administrator.
- NOTE: FR 600-H requires three large culverts to complete specified roadwork and several small culverts for the reconstruction of this road. All purchaser furnished pipes shall be one piece to avoid band separation and difficulties with pipe bed preparation. (Contract requires high density dual walled polyethylene drainage pipes)
- NOTE: FR 600-H has authorized use under special use permit for landowner access. shall be used to protect areas with prior pit run placement. Additional work to pipe bed preparation ditching and ditch restoration is required and this material shall be placed over pipes and incorporated into roadbed and covered with pit run as described and required in the schedule of items.
- NOTE: Culverts removed from FR 600-H are to be placed in adjacent areas, as directed by the Forest Service, and shall be removed by the landowner that purchased them.

Standard Specifications for Construction of Roads & Bridges on Federal Highway Projects

Specification List

Project Name: Bluff View Timber Sale

Date Prepared: 5/28/2014

Road Numbers: FR 600-F FR 600-H FR 600-K		FR 600-F	FR 600-H	FR 600-K	
Road Name:	Termini...	Miles	Miles	Miles	
	Construction Reconstruction	0.34	0.57	0.01	
Spec. No.	Title				Latest Revised Edition
101 thru 109	General Requirements	X	X	X	2003
203	Removal of Structures and Obstructions		X		2003
204	Excavation and Embankment		X		2003
602	Culverts and Drains		X		2003
650	Road Closure Device			X	2003

Note: The Forest Service, U.S. Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

BLUFF VIEW TIMBER SALE

SUPPLEMENTAL SPECIFICATIONS

Section 101-109	General Requirements
Section 203	Removal of Structures and Obstructions
Section 204	Excavation and Embankment
Section 301	Removal of Structures and Obstructions
Section 602	Culverts and Drains
Section 650	Road Closure Device

SUPPLEMENTAL SPECIFICATION

PREFACE

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

SUPPLEMENTAL SPECIFICATION

Section 101 – TERMS, FORMAT, AND DEFINITIONS

101.01 Meaning of Terms.

Add the following:

Delete all references in FP-03 to Transportation Acquisition Regulations (TAR). For Timber Sales, delete all references in FP-03 to Federal Acquisition Regulations (FAR).

101.03 Abbreviations.

Add the following to (a) Acronyms:

AFPA	American Forest and Paper Association
MSHA	Mine Safety and Health Administration
NIST	<u>National Institute of Standards and Technology</u>
NESC	National Electrical Safety Code
WCLIB	West Coast Lumber Inspection Bureau

Add the following to (b) SI Symbols:

mp	Milepost
ppm	Part Per Million

101.04 Definitions.

Delete the following definitions and substitute the following:

Bid Schedule--The Schedule of Items.

Bridge--No definition.

Contractor--The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the "purchaser".

Culvert--No definition.

Right-of-Way--A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

Add the following:

Adjustment in Contract Price--"Equitable adjustment," as used in the Federal Acquisition Regulations, or "construction cost adjustment," as used in the Timber Sale Contract, as applicable.

Change--"Change" means "change order" as used in the Federal Acquisition Regulations, or "design change" as used in the Timber Sale Contract.

Design Quantity-- "Design quantity" is a Forest Service method of measurement from the FS-96 *Forest Service Specifications for the Construction of Roads and Bridges*. Under these FP specifications this term is replaced by the term "Contract Quantities".

Forest Service--The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line--A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road--Temporary construction access built along the route of the project.

Purchaser--The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

Protected Streamcourse--A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

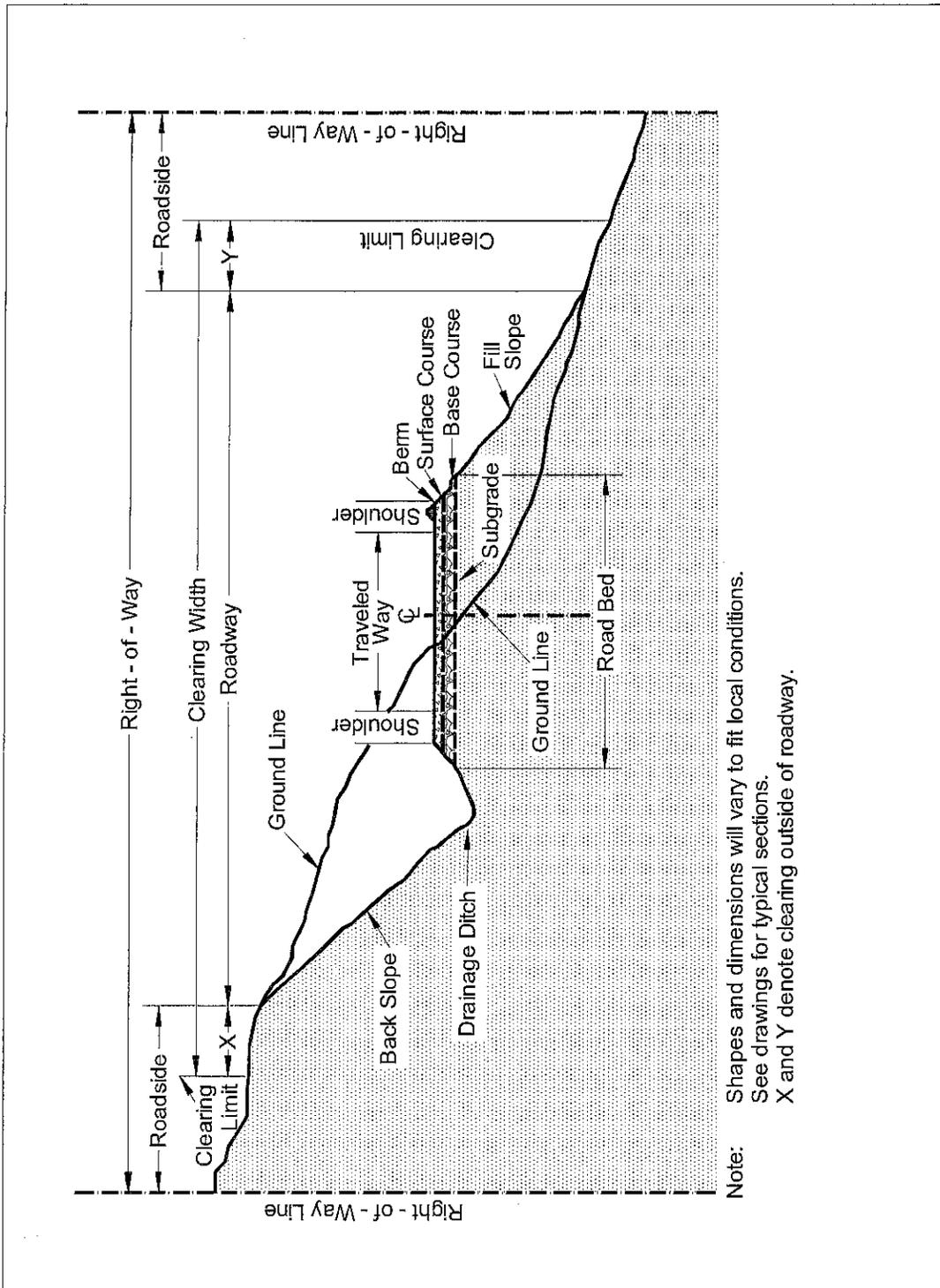
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

Schedule of Items--A schedule in the contract that contains a listing and description of construction items, quantities, units of measure, unit price, and amount.

Utilization Standards--The minimum size and percent soundness of trees described in the specifications to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

Figure 101-1—Illustration of road structure terms.



SUPPLEMENTAL SPECIFICATION

Section 102 – BID, AWARD, AND EXECUTION OF CONTRACT

102 Delete

Delete Section 102 in its entirety.

SUPPLEMENTAL SPECIFICATION

Section 103 – SCOPE OF WORK

103 Delete

Delete all but subsection 103.01 Intent of Contract.

SUPPLEMENTAL SPECIFICATION

Section 105- CONTROL OF MATERIAL

105.02 Material Sources.

105.02(a) Government Provided Sources.

Add the following:

Comply with the requirements of 30 CFR 56, subparts B and H. Use all suitable material for aggregate regardless of size unless otherwise designated. When required, re-establish vegetation in disturbed areas according to section 625.

Government-provided source for this project is identified as follows:

Material is available for use as pit run for the project from the **Norwich Pit located in the following location: SE ¼, SW ¼, Section 13, T50N-R41W.**

105.05 Use of Material Found in the Work.

Delete 105.05 (a) and (b) and the last sentence of the second paragraph and substitute the following:

Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. The Government is not obligated to make reimbursement for the cost of producing these materials.

SUPPLEMENTAL SPECIFICATION

Section 106- ACCEPTANCE OF WORK

106.07 Partial and Final Acceptance.

Delete subsection 106.07

SUPPLEMENTAL SPECIFICATION

Section 107- LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

SUPPLEMENTAL SPECIFICATION

Section 108- PROSECUTION AND PROGRESS

Delete Section 108 in its entirety.

SUPPLEMENTAL SPECIFICATION

Section 109- MEASUREMENT AND PAYMENT

109.02 Measurement Terms and Definitions

Add: One of the following methods of measurement for determining final payment is DESIGNATED on the SCHEDULE OF ITEMS for each pay item:

(a) Designated Quantities (DQ). These quantities denote the final number or units to be paid for under the terms of the contract. They are based upon the original design data available prior to advertising the project. Original design data include the preliminary survey information, design assumptions, calculations, drawings, and the presentation in the contract. Changes in the number of units SHOWN in the SCHEDULE OF ITEMS may be authorized under any of the following conditions:

- (1) As a result of changes in the work authorized by the Contracting Officer.
- (2) As a result of the Contracting Officer determining that errors exist in the original design that cause a pay item quantity to change by 15 percent or more.
- (3) As a result of the contractor submitting to the Contracting Officer a written request showing evidence of errors in the original design that cause a pay item quantity to change by 15 percent or more. The evidence must be verifiable and consist of calculations, drawings, or other data that show how the designated quantity is believed to be in error.

(b) Staked Quantities (SQ). These quantities are determined from staked measurements prior to construction.

(c) Actual Quantities (AQ). These quantities are determined from measurements of completed work.

(d) Vehicle Quantities (VQ). These quantities are measured or weighed in hauling vehicles.

- (e) Lump Sum Quantities (LSQ). These quantities denote one complete unit of work as required by or described in the contract, including necessary materials, equipment, and labor to complete the job. They will not be measured.

Quantity Measurements. The Forest Service shall make all measurements for computation of quantities for all work items except those specified for payment by Design Quantity (DQ). The Engineer shall compute the quantities for periodic payments and for final payment.

The Contractor shall certify in writing at the completion of contract work, that the quality of construction conforms to the drawings, specifications, and requirements of the Contract.

109 Deletions

Delete the following entire subsections:

109.06 Pricing of Adjustments.

109.07 Eliminated Work.

109.08 Progress Payments.

109.09 Final Payment.

SUPPLEMENTAL SPECIFICATION

Section 203 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

203.01 Work.

Delete and replace with the following:

This work consists of disposing of clearing slash, salvaging, removing, and disposing of buildings, fences, structures, pavements, culverts, utilities, curbs, sidewalks, and other obstructions.

203.05 Disposing of Material.

(a) Remove from project.: Culverts shall be removed from the project and disposed of off Government land.

Add the following disposal method:

(f) Scattering. Scatter construction slash outside the clearing limits without damaging

trees. Limb all logs. Stumps shall be severed from all trees, and set in an upright position with their root masses resting on the ground. Place logs and stumps away from trees, positioned so that they will not roll, and are not on top of one another. Limb and scatter other construction slash to a maximum height of 3-feet..

SUPPLEMENTAL SPECIFICATION

Section 204-EXCAVATION AND EMBANKMENT

204.05 Conserved Topsoil.

Delete the subsection.

204.09 Preparing Foundation for Embankment Construction.

Delete subsection (a) and replace it with the following:

(a) Embankment less than 4 feet high over natural ground. When designated, remove topsoil and break up the ground surface to a minimum depth of 6 inches by plowing or scarifying. Compact the ground surface according to Subsection 204.11.

204.10 Embankment Construction.

Add the following:

When an embankment is to be placed across swampy ground and removal of unsuitable material or subgrade treatment is not required, the lower part of the embankment shall be constructed in a single layer to the minimum depth necessary to support construction equipment.

(c) Individual rock fragments and boulders.

Add the following:

(5) Such rocks and boulders shall be at least 6 inches below subgrade.

204.11 Compaction.

Add the following:

All embankments shall be placed and compacted by one or more of the following methods as

SHOWN ON THE DRAWINGS and listed in the SCHEDULE OF ITEMS.

Add the following compaction method:

(d) Layer Placement Method (Hauling and Spreading Equipment). Place material by end dumping to the minimum depth needed for operation of spreading equipment. Level and smooth each embankment layer before placing the next layers. Operate hauling and spreading equipment uniformly over the full width of each layer. Construct a solid embankment with adequate compaction by working smaller rock and fines in with the larger rocks to fill the voids, and by operating hauling and spreading equipment uniformly over the full width of each layer as the embankment is constructed.

(e) Layer Placement Method (Roller Compaction). Place material by end dumping to the minimum depth needed for operation of spreading equipment. Adjust the moisture content of the material to obtain a mass that will not visibly deflect under the load of the hauling and spreading equipment. Operate compaction equipment over the full width of each layer until visible deformation of the layer ceases or, in when a sheepsfoot roller is used, the roller "walks out" of the layer. Make at least three complete passes.

204.13 Sloping, Shaping, and Finishing.

(a) Sloping.

Add the following:

Slope rounding is not required on tolerance class D though M roads.

(c) Shaping.

Add the following:

When excavation is measured on a station basis, excavating, placing of embankment, and shaping and compacting the roadway template shall include only those areas where cuts and fills are generally less than five feet in depth as measured from the finished shoulder grade to the top of the adjacent cut or toe of fill. These areas of station grading shall consist of light dozing or grading of such character that the excavation from backslopes, ditches, and roadbed shall be used in shaping the subgrade, shoulders, and adjacent fills.

When excavation is measured by the station (station grading) as designated in the SCHEDULE OF ITEMS, turnouts, side entrances, approaches, radii and T-turnarounds shall not be measured separately, but will be included as part of the station measurement along the construction centerline.

This work shall include all necessary scarifying, dozing, disking, moving, shaping, and compacting to develop the cross-sections SHOWN ON THE DRAWINGS. Loading and hauling will not be included or required in the work.

Compaction of the subgrade shall be accomplished with the construction and hauling equipment.

Delete section (d) and add the following:

(d) Finishing. For surfaced roads, remove all material larger than 6 inches from the top 6 inches of the roadbed. For all roads, finish the roadbed to be smooth and uniform, and shaped to conform to the typical sections. Remove unsuitable material from the roadbed and replace it with suitable material. Finish roadbeds to the tolerance class shown in table 204-2.

Ensure that the subgrade for both surfaced and unsurfaced roads is visibly moist during shaping and dressing. Bring low sections, holes, cracks, or depressions to grade with suitable material. Maintain proper ditch drainage.

For unsurfaced roads, use one of the following methods to finish the roadbed

- (1) Method A. Remove all material larger than 6 inches from the top 6 inches of the roadbed and replace with suitable material.
- (2) Method B. Use a vibratory grid roller or approved equal with a minimum weight of 10 tons. Roll at least 5 full-width passes or until visible displacement ceases.
- (3) Method C. For roads designated as Construction Tolerance Class K, L, or M, finish the roadbed by spreading the excavation. Eliminate rock berms.

Add Table 204-2—Construction Tolerances:

Table 204-2 Construction tolerances.

	Tolerance Class ^(a)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
Roadbed width (ft)	+0.5	+0.5	+1.0	+1.0	+1.0	+1.0	+1.5	+1.0	+2.0	+2.0	+2.0	+2.0	+2.0
Subgrade elevation (ft)	±0.1	±0.2	±0.2	±0.5	+0.5	±1.0	±1.0	±1.5	±2.0	±3.0	+2.0	±3.0	(c)
Centerline alignment (ft)	±0.2	±0.2	±0.5	±0.5	±1.0	±1.0	±1.5	±1.5	±2.0	±3.0	±3.0	±5.0	(c)
Slopes, excavation, and embankment (% slope ^(b))	±3	±5	±5	±5	±5	±5	±10	±10	±10	±10	±20	±20	±20

- a. Maximum allowable deviation from construction stakes and drawings.
- b. Maximum allowable deviation from staked slope measured from slope stakes or hinge points.
- c. Unless otherwise shown the centerline alignment and subgrade elevation, as built, have no horizontal curves with a radius of less than 80 feet, and no vertical curves with a curve length of less than 80 feet when the algebraic difference in the grade change is less than 10 percent, or a curve length of less than 100 feet when the algebraic difference of the grade change is greater than or equal to 10 percent. The centerline grade is not to exceed 20 percent in 100 feet of length.

204.16

(b) Unclassified borrow, select borrow, and select topping.

Add the following:

When borrow is designated as a pay item by the cubic yard in the SCHEDULE OF ITEMS, measurement will be in the final position.

SUPPLEMENTAL SPECIFICATION

Section 249. – COMPOSITE ROAD CONSTRUCTION

Description

249.01 This work consists of clearing and grubbing, excavation and embankment, and removal of all construction slash including all trees designated for removal. Excavation and embankment includes on site borrow excavation; drainage excavation; placing all excavated material; and shaping the roadway; including approaches, turnarounds, ditches and drainage dips. Construct the roadway in conformance with the dimensions “shown on the plans” or as staked on the ground.

Construction Requirements

249.02 Clearing & Disposal

Protect construction stakes and construction control markers. Remove or treat all trees, snags, downed timber, brush, and stumps within the clearing limits according to the following specifications.

(a) Merchantable Timber. Treat according to the Utilization Standards of the Timber Sale Contract.

(b) Unmerchantable Timber. Treat according to Subsection 249.02 Method A.

(c) Large Construction Slash. Treat construction slash larger than 3 inches in diameter and longer than 3 feet by one or more of the following methods.

(1) Method A. Construction slash shall be scattered outside the clearing limits without damaging trees outside the clearing area. Logs shall be placed away from trees, positioned so that they will not roll, not placed on top of one another or left leaning on other trees. Scattered stumps shall be placed in an upright position.

(2) Method B. Stumps, roots, rocks, topsoil and other grubbing debris shall be concentrated in stump dump areas. Stump dump areas shall be located by the Engineer, be a maximum of 300 feet apart along the road centerline, and generally be located in natural depressions or tucked away behind denser vegetation or ground rises. Stump dumps will vary in size depending on each site, but shall not be closer than 10 feet outside of the clearing limits. Stump dump material shall be matted down as much as possible and shall not obstruct natural drainages.

(d) Small Construction Slash. Construction slash less than 3 inches in diameter and less than 3 feet in length may be incorporated into embankments so long as the material is distributed so that it does not result in concentrations or matting.

Immediately remove slash deposited in stream courses.

249.03 Pioneering.

Do not undercut the final back slope during pioneer operations. Deposite material inside the roadway limits. Do not restrict drainages.

249.04 Grubbing.

Grub within the specified limits. Stumps outside the grubbing limits remain if cut no higher than 1 foot or one-third of the stump diameter, whichever is greater, above the original ground, measured on the uphill side, unless otherwise designated. Grub all stumps from the Roadway, or stumps that have less than 1 foot of cover, in the Fill slopes, providing they do not interfere with the placement or compaction of embankments.

249.05 Excavation and Embankment.

Construct the roadway to conform to the typical sections shown on the plans. Protect backslopes from being undercut. Embankment shall be placed in layers no more than 12 inches thick.

Locate and use borrow material, and remove and treat unsuitable excess material, as designated.

Place rocks that are too large to be incorporated in the embankment outside the

traveled way on the downhill side such that they will not roll, obstruct drainage, or hinder roadbed use and maintenance.

Shape and finish the roadbed to the condition ordinarily accomplished by a crawler tractor with dozer blade to provide drainage of surface water. Do not permit individual rocks to protrude more than 4 inches above the subgrade of the roadbed. A motor grader finish is not required.

Observe a width tolerance of (+) 18 inches max. for the roadbed.

Where shown on the drawings or designated on the ground, offtake ditches shall be constructed to drain water away from the roadbed.

249.06 Erosion Control.

Perform erosion control measures, where shown on the drawings, or staked on the ground.

Measurement

249.07 Method.

Measure the section 249 items listed in the schedule of items according to subsection 109.02

Payment

249.08 Basis.

The accepted quantities will be paid at the contract price per unit of measurement for Section 249 pay items listed in the Bid Schedule. Payment will be full compensation for the work prescribed in this section. See Subsection 109.05

SUPPLEMENTAL SPECIFICATION

Section 602- CULVERTS AND DRAINS

Description

- 602.01** Delete 602.01 in its entirety and substitute with the following:
- 602.01** This work shall consist of furnishing and installing, or installing only, metal pipe and Corrugated High Density Polyethylene (HDPE) with smooth interior and pipe appurtenances, including all bedding and backfilling required to complete the work. The term metal refers to aluminum and steel.

Material

- 602.02** Add: Corrugated High Density Polyethylene Drainage Pipe shall meet the requirements of AASHTO M252, ASTM F405, and ASTM 667 and be non – perforated. Advance Drainage systems N – 12 pipe meets these requirements.

602.03 General.

Add the following:

Ensure that the final installed alignment of all pipe allows no reverse grades, and does not permit horizontal and vertical alignments to vary from a straight line drawn from center of inlet to center of outlet by more than 2 percent of pipe center length or 1.0 foot, whichever is less.

Backfill material shall be readily compactible material free of frozen lumps, chunks of highly plastic clay (Plasticity Index greater than 10), or other objectional material. Rocks larger than 3 inches in greatest dimension shall not be used within 1 foot of the pipe.

Payment

When materials are produced and furnished by the Forest Service, the note "Government furnished materials" will be added to the description of the pay item.

SUPPLEMENTAL SPECIFICATION

Section 650— ROAD CLOSURE DEVICES

Description

650.01 Work. Furnish and install, or install only, road closure devices using fabricated gates and accessories, combination post and rail barriers, concrete barriers, earth mound barriers, and other devices.

Materials

650.02 Requirements.

Furnish concrete that meets the requirements of Subsection 601.03, method B or C.

Construct earth mound barriers from excavated material adjacent to the barrier location, or from other designated locations.

Construction

650.03 Performance. Place road closure devices at designated locations. Construct all devices to the required dimensions. In assembling gates, perform required welding in accordance with the best modern practice and the applicable requirements of AWS D1.1.

After assembly, clean non-galvanized steel pipe gates and paint them with one coat of zinc-rich primer and two coats of exterior enamel of the required type and color.

Set all posts vertically and embed them to the required depth. Place concrete for embedment against undisturbed earth within an excavation sized to achieve the embedment dimensions. Compact the backfill in 6 inch layers to finished grade.

Install all signs and/or reflective warning markers accessory to the road closure device as shown on DRAWINGS.

650.04 Acceptance. Construction of road closure devices will be evaluated under Subsections 106.02 and 106.04.

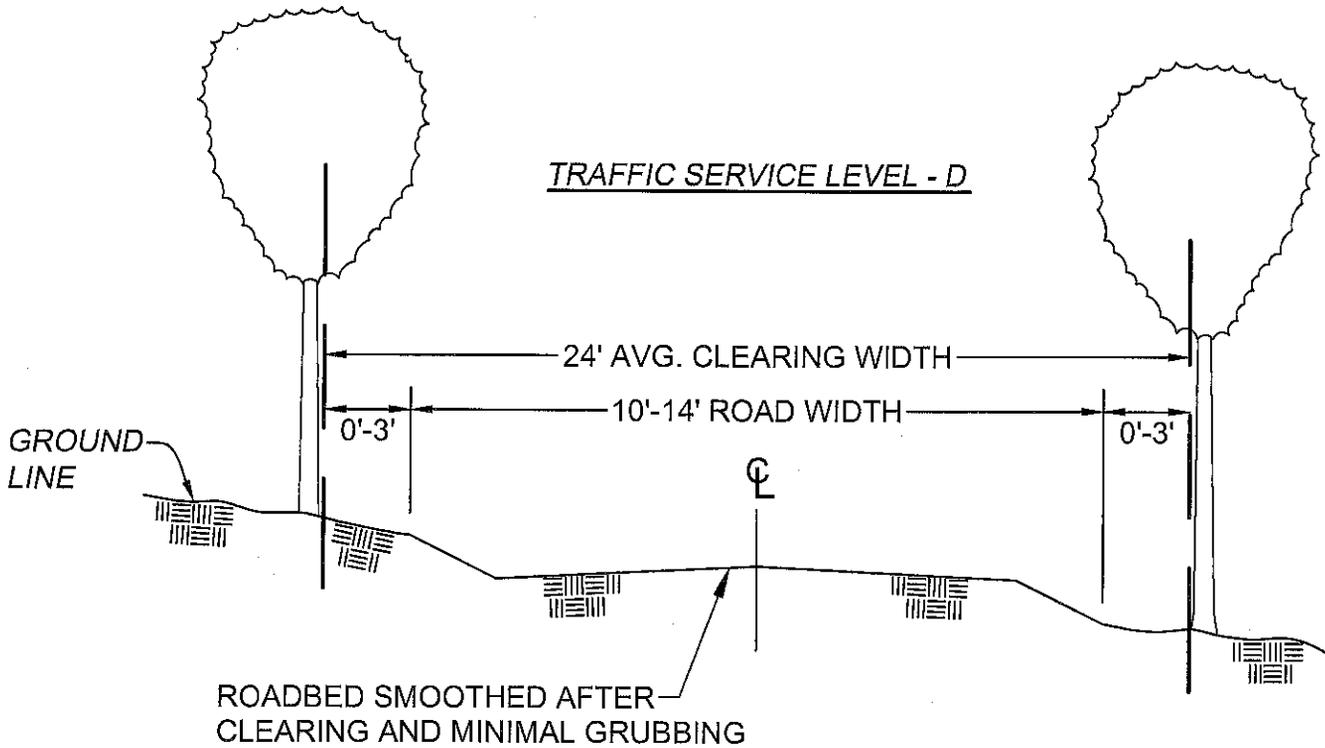
Measurement

650.05 Measure the items listed in the bid schedule according to Subsection 109.02.

Payment

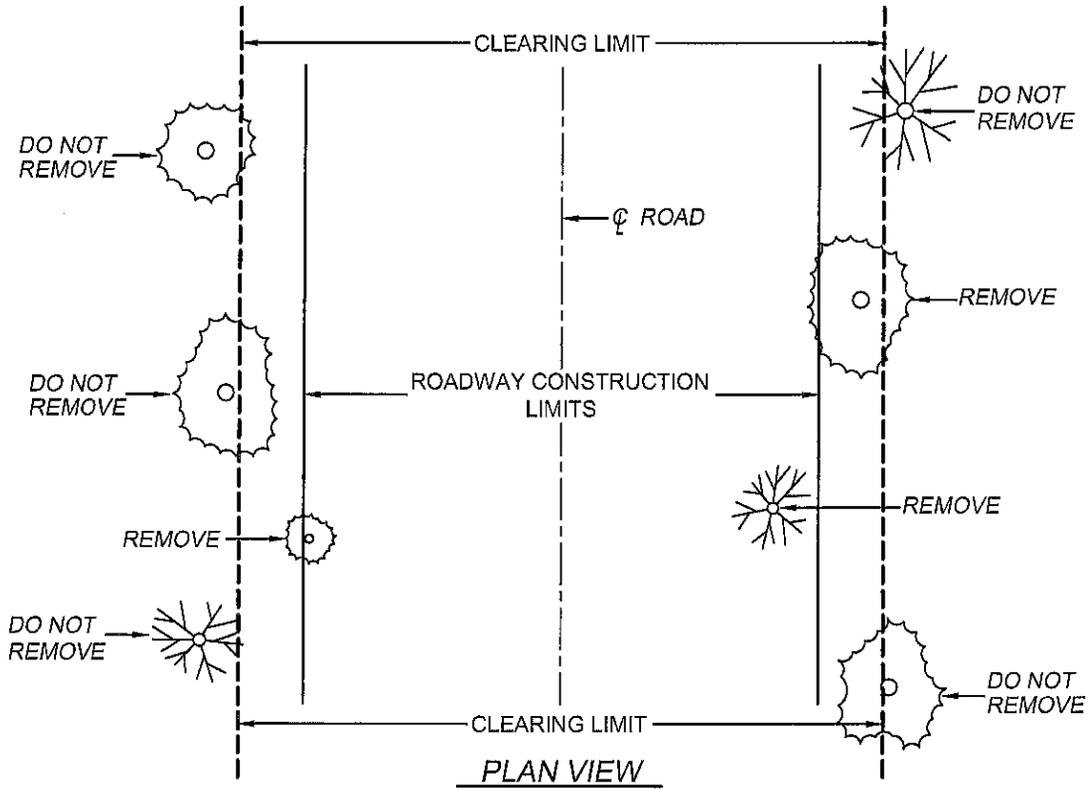
650.06 The accepted quantities, measured as provided in Subsection 109.02 and above, will be paid at the contract price per unit of measurement for the Section 650 pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

When materials are produced and furnished by the Forest Service, the note "Government furnished materials" will be added to the description of the pay item.



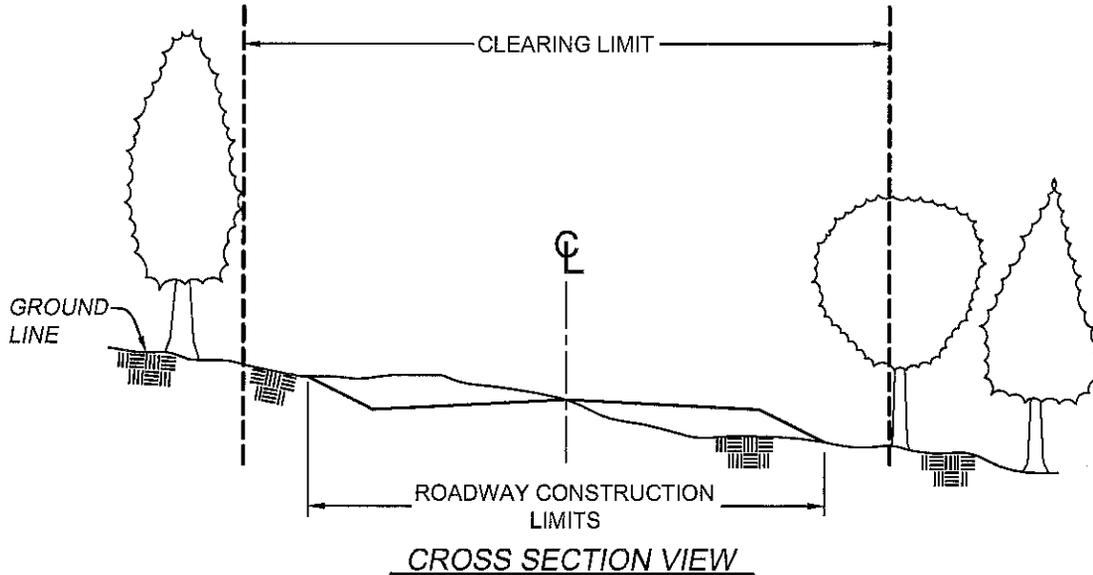
CROSS SECTION VIEW

WINTER ONLY ROAD STANDARD
NOT TO SCALE

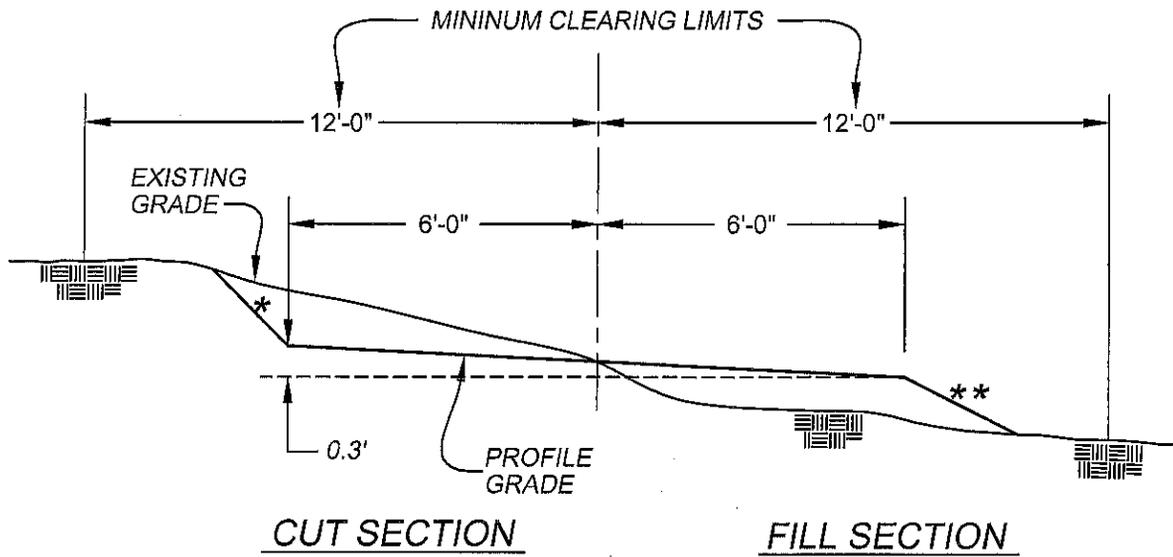


NOTE: TREES ON THE CLEARING LIMIT LINE ARE TO REMAIN UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

NOTE: YELLOW PAINT INDICATES TREES TO BE REMOVED.



CONSTRUCTION STAKING
NOT TO SCALE

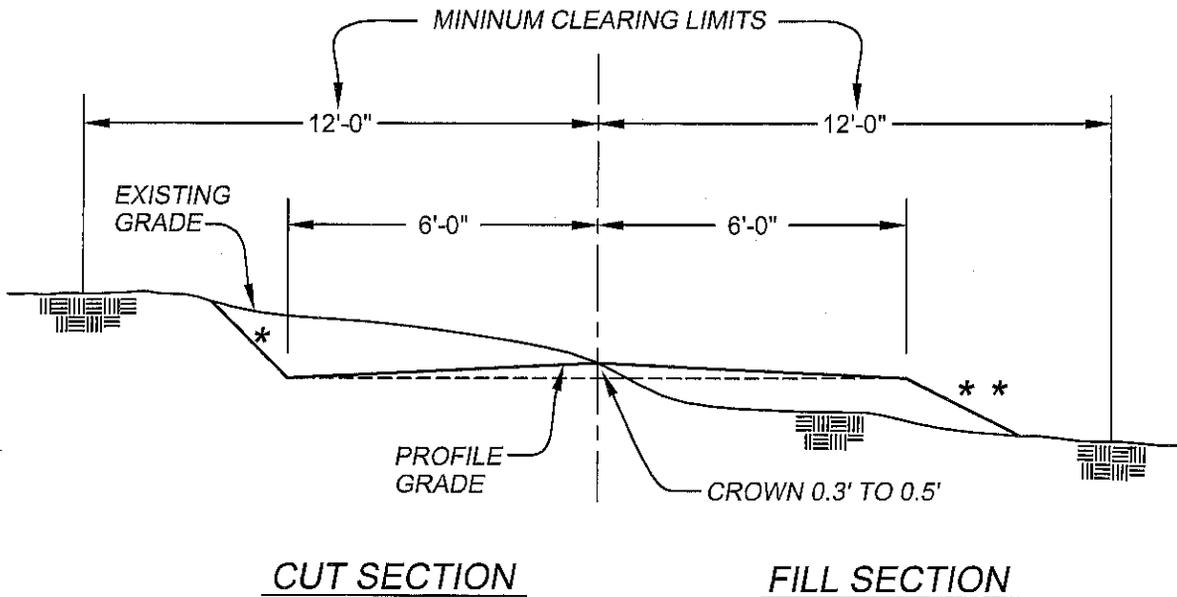


TYPICAL OUTSLOPE DETAIL

NOT TO SCALE

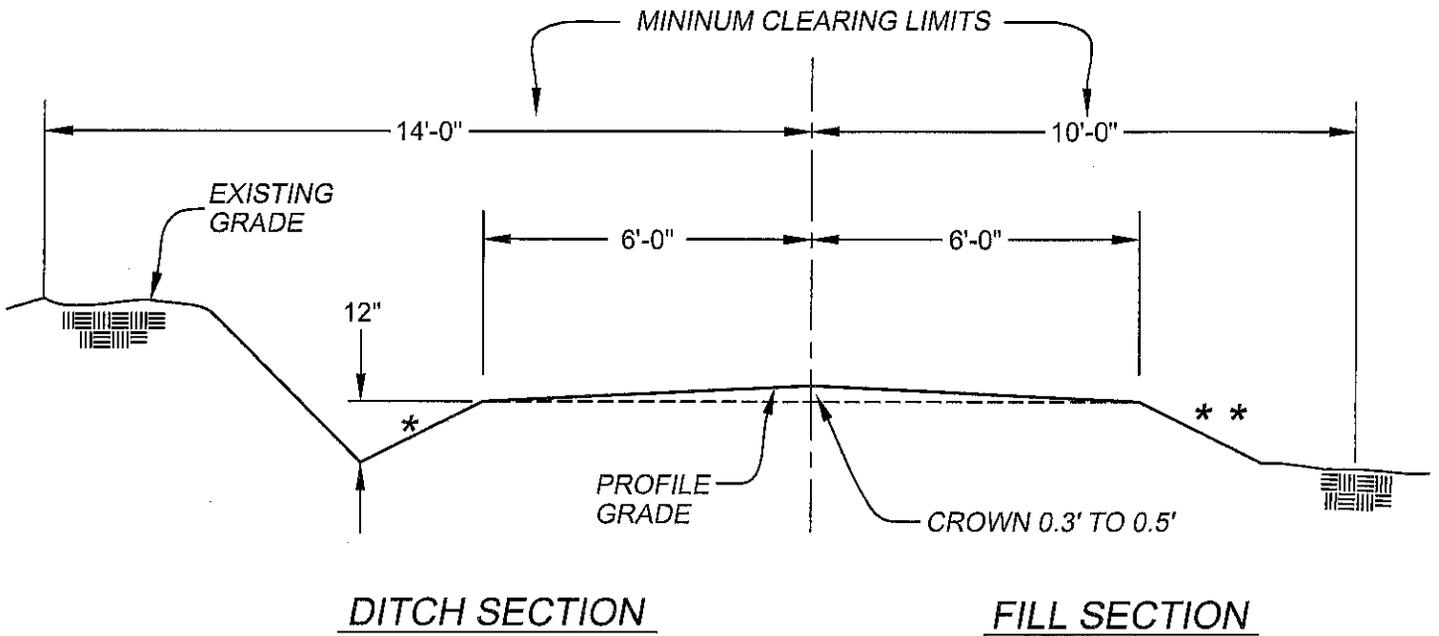
*BACKSLOPE AND DITCH SLOPES MAY VARY FROM 1H:1V TO 2H:1V WHEN CUTS ARE UNDER 2 FT. CUTS OVER 2 FT. SHALL HAVE SLOPES OF 2H:1V

**FILL SLOPES MAY VARY FROM 1-1/2H:1V TO 3H:1V



TYPICAL CROSS SECTION CROWN NO DITCHES

NOT TO SCALE



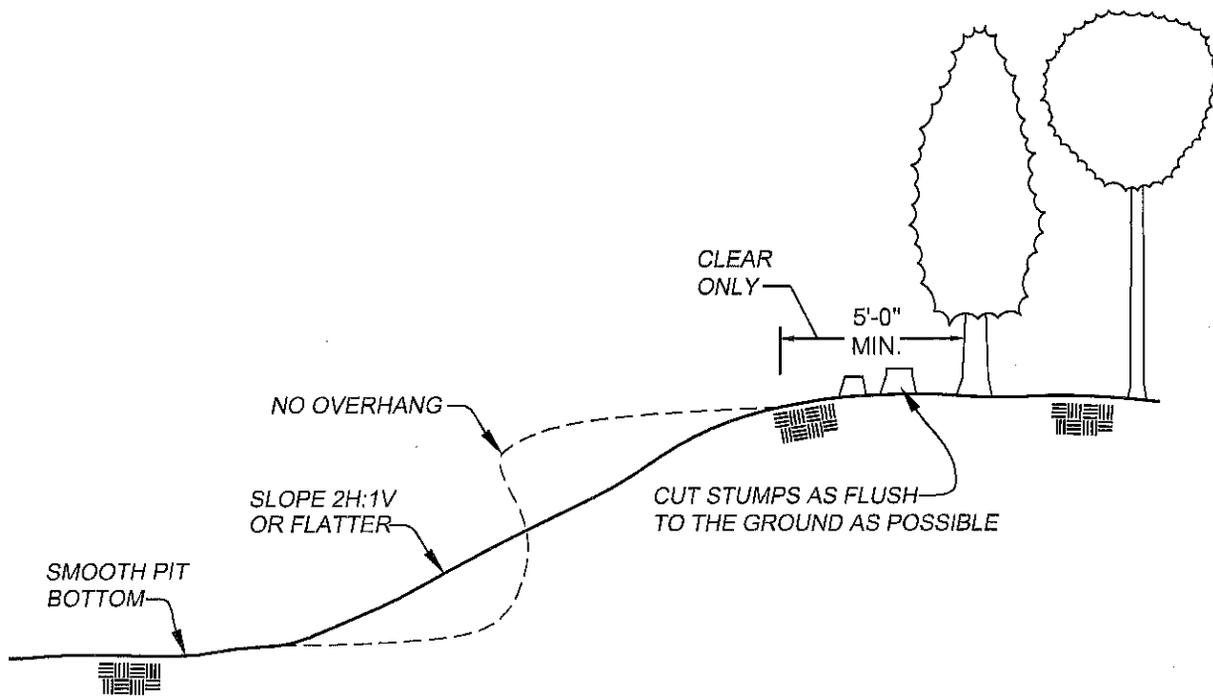
*BACKSLOPE AND DITCH SLOPES MAY VARY FROM 1H:1V TO 2H:1V WHEN CUTS ARE UNDER 2 FT. CUTS OVER 2 FT. SHALL HAVE SLOPES OF 2H:1V

**FILL SLOPES MAY VARY FROM 1-1/2H:1V TO 3H:1V

(SEE NARRATIVE FOR LOCATION)

TYPICAL CROSS SECTION WITH 1 FOOT DITCH

NOT TO SCALE

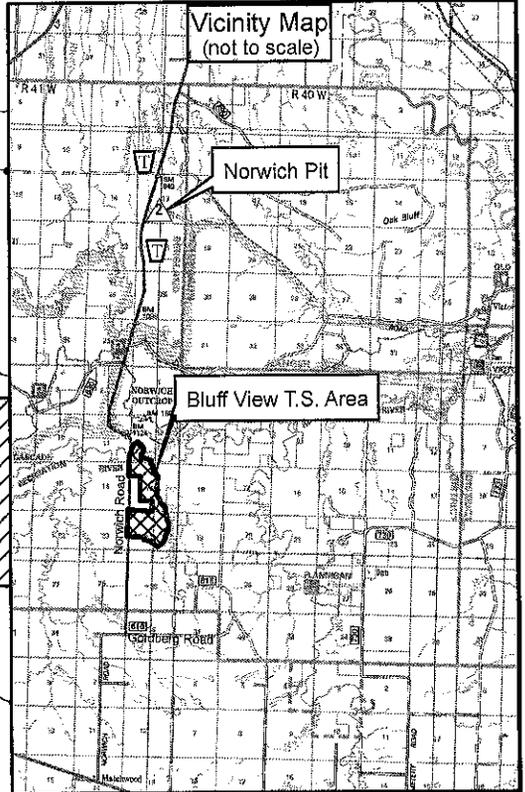
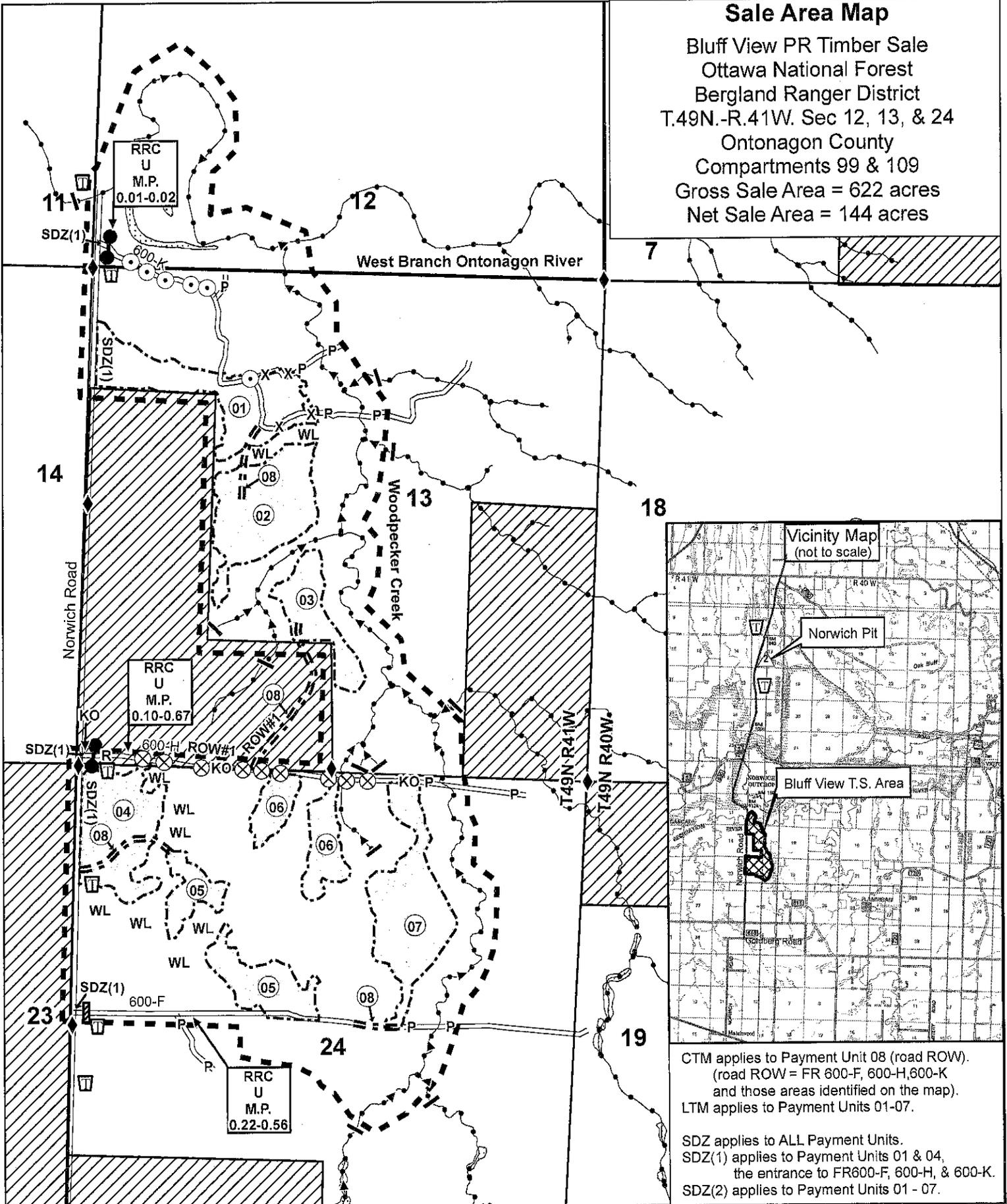


NOTE: TOPS, STUMPS AND TRUNKS SHALL BE DISPOSED OF AS DIRECTED BY THE FOREST SERVICE. STUMPS SHALL BE SEVERED FROM ALL TREES. OVERSIZED ROCK SHALL BE DISPOSED OF IN EXISTING PILES OR AS DIRECTED BY THE FOREST SERVICE. SMOOTH PIT BOTTOM TO REDUCE THE COLLECTION OF WATER. HAUL ROADS SHALL BE MADE SMOOTH AND REPAIRED OF DAMAGE CAUSED BY THE CONTRACTORS HAULING OPERATION OR EQUIPMENT.

BORROW PIT CLEAN UP

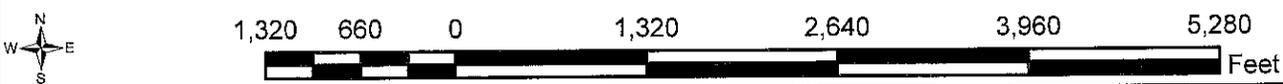
Sale Area Map

Bluff View PR Timber Sale
 Ottawa National Forest
 Bergland Ranger District
 T.49N.-R.41W. Sec 12, 13, & 24
 Ontonagon County
 Compartments 99 & 109
 Gross Sale Area = 622 acres
 Net Sale Area = 144 acres



CTM applies to Payment Unit 08 (road ROW).
 (road ROW = FR 600-F, 600-H, 600-K
 and those areas identified on the map).
 LTM applies to Payment Units 01-07.

SDZ applies to ALL Payment Units.
 SDZ(1) applies to Payment Units 01 & 04,
 the entrance to FR600-F, 600-H, & 600-K.
 SDZ(2) applies to Payment Units 01 - 07.

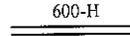
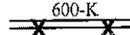
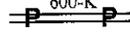
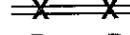
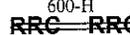
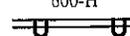
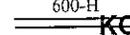
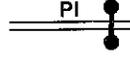
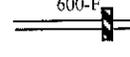


**SALE AREA MAP
OTTAWA NATIONAL FOREST
BLUFF VIEW PR TIMBER SALE**

**** Sample Contract ****

Page 2 of 2

LEGEND

	Sale Area Boundary, BT1.1
	Payment Unit Boundary, BT1.1
	Payment Unit Number, BT1.1
CTM	Cut Tree Marked Prior to Advertisement, BT2.35, CT2.355#, CT6.412
LTM	Leave Tree Marking, BT2.35 CT2.356#
	Existing Transportation System Road, BT5.12, BT6.22
	Existing Transportation System Road, Hauling Prohibited, CT5.12#
	Existing Transportation System Road, Use Prohibited, CT5.12#
	Un-Numbered Road, Hauling Prohibited, CT5.12#
	Un-Numbered Road, Use Prohibited, CT5.12#
	Specified Road Reconstruction, AT7, BT5.2, BT5.23, BT6.22, BT6.222, BT6.361
	Existing Transportation System Road, Unsuitable for hauling prior to completion of agreed reconstruction, BT5.12, BT5.23, CT5.12#
	Keep Road Open, BT6.22 (applies to Forest System Road 600-H)
	Forest System Road Maintenance – culvert installation/replacement, CT5.31#, T-8340
	Specified Road Construction/Reconstruction, AT7, BT5.2, BT5.23, BT6.22, BT6.222, BT6.361 (Culvert Installation)
	Protection of Improvements, GATE (existing on FR 600-H & 600-K), BT6.22, CT5.31# (T-8620)
	Purchaser Remove & Install Berm on System Road, CT5.31#, T-8620
	Wetlands Protection, BT6.62, CT6.62#
	Streamcourse Protection, BT6.5 (block represents upper stream limit; arrow indicates flow direction)
SDZ	Slash Disposal, CT6.7#
SDZ(1)	Slash Disposal Zone, CT6.7#
SDZ(2)	Slash Disposal Zone, CT6.7#
	Other Ownership, CT6.7#
	Protection of Land Survey Monuments (Monumented Corner), BT6.23
	Material Sources, CT5.221# (Norwich Pit –T50N-R41W, Section 13); CT5.31# (T8130)
	Traffic Control Device, BT6.33 (Safety)