U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE **TIMBER SALE CONTRACT** (Applicable to Sales to be Measured before Felling)		**Name of Purchaser**	
National Forest Hiawatha	**Ranger District** Sault Ste Marie	**Region** Eastern	**Contract Number**
Sale Name Red Alert Plus		**Award Date**	**Termination Date** 12/31/2020

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.

SAMPLE

UNITED STATES OF AMERICA

Two Witnesses: 1/

By _____
Contracting Officer

_____
(Name)

_____
(Title)

By: _____
(Purchaser) 2/

_____
(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/

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.

SAMPLE

Sale Name: Red Alert Plus **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 1154 acres more or less is located in:

T47N, R3W Sections 20, 28, 29, 32, and 33

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
Aspen	Sawtimber	437.00	CCF	11.0	1	8	9.6	70
Jack Pine	Sawtimber	15.00	CCF	9.0	1	8	7.6	50
Mixed Conifer	Sawtimber	1.00	CCF	9.0	1	8	7.6	50
Mixed Hardwood	Sawtimber	221.00	CCF	11.0	1	8	9.6	50
Red Pine	Sawtimber	1,980.00	CCF	9.0	1	8	7.6	50
Sugar Maple	Sawtimber	110.00	CCF	11.0	1	8	9.6	50
Aspen	Pulpwood	312.00	CCF	5.0	1	8	4.0	70
Mixed Conifer	Pulpwood	51.00	CCF	5.0	1	8	4.0	70
Mixed Hardwood	Pulpwood	2,623.00	CCF	5.0	1	8	4.0	70
Pine	Pulpwood	362.00	CCF	5.0	1	8	4.0	70
Total Quantity		6,112.00	CCF					

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

SAMPLE

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)		419
Incompletely Measured Payment Units (BT2.36)		

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				
			Base $	Advertised $	Bid Premium $	Bid (Flat) $	Required Deposits Slash Disposal $
Aspen	Sawtimber	CCF	1.55	14.46			.00
Jack Pine	Sawtimber	CCF	4.79	47.59			.00
Mixed Conifer	Sawtimber	CCF	1.49	12.98			.00
Mixed Hardwood	Sawtimber	CCF	2.16	29.66			.00
Red Pine	Sawtimber	CCF	4.98	52.32			.00
Sugar Maple	Sawtimber	CCF	4.73	93.78			.00
Aspen	Pulpwood	CCF	1.46	12.27			.00
Mixed Conifer	Pulpwood	CCF	1.47	12.63			.00
Mixed Hardwood	Pulpwood	CCF	1.53	13.77			.00
Pine	Pulpwood	CCF	4.79	47.60			.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.

SAMPLE

Sale Name: Red Alert Plus **Contract No:**

AT4c - Schedule of Payment Units

Payment Unit No.	Approx. 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 $
01	10.6			Aspen	Sawtimber	39.00 CCF		.00
				Jack Pine	Sawtimber	1.00 CCF		
				Mixed Hardwood	Sawtimber	9.00 CCF		
				Sugar Maple	Sawtimber	4.00 CCF		
				Aspen	Pulpwood	27.00 CCF		
				Mixed Conifer	Pulpwood	5.00 CCF		
				Mixed Hardwood	Pulpwood	83.00 CCF		
				Pine	Pulpwood	4.00 CCF		
				Total PU Quantity And Value		172.00 CCF		
02	33.5			Aspen	Sawtimber	123.00 CCF		.00
				Jack Pine	Sawtimber	5.00 CCF		
				Mixed Hardwood	Sawtimber	28.00 CCF		
				Sugar Maple	Sawtimber	12.00 CCF		
				Aspen	Pulpwood	85.00 CCF		
				Mixed Conifer	Pulpwood	15.00 CCF		
				Mixed Hardwood	Pulpwood	261.00 CCF		
				Pine	Pulpwood	11.00 CCF		
				Total PU Quantity And Value		540.00 CCF		
03	27.8			Aspen	Sawtimber	102.00 CCF		.00
				Jack Pine	Sawtimber	4.00 CCF		
				Mixed Hardwood	Sawtimber	23.00 CCF		
				Sugar Maple	Sawtimber	10.00 CCF		
				Aspen	Pulpwood	70.00 CCF		
				Mixed Conifer	Pulpwood	12.00 CCF		
				Mixed Hardwood	Pulpwood	217.00 CCF		
				Pine	Pulpwood	9.00 CCF		
				Total PU Quantity And Value		447.00 CCF		
04	37.4			Aspen	Sawtimber	137.00 CCF		.00
				Jack Pine	Sawtimber	5.00 CCF		
				Mixed Hardwood	Sawtimber	32.00 CCF		
				Sugar Maple	Sawtimber	13.00 CCF		
				Aspen	Pulpwood	95.00 CCF		
				Mixed Conifer	Pulpwood	17.00 CCF		
				Mixed Hardwood	Pulpwood	292.00 CCF		
				Pine	Pulpwood	13.00 CCF		
				Total PU Quantity And Value		604.00 CCF		
06	34.9			Aspen	Sawtimber	10.00 CCF		.00
				Mixed Hardwood	Sawtimber	34.00 CCF		
				Sugar Maple	Sawtimber	26.00 CCF		
				Aspen	Pulpwood	3.00 CCF		
				Mixed Conifer	Pulpwood	0.00 CCF		
				Mixed Hardwood	Pulpwood	273.00 CCF		
				Total PU Quantity And Value		346.00 CCF		
07	55			Aspen	Sawtimber	3.00 CCF		.00
				Mixed Hardwood	Sawtimber	12.00 CCF		
				Red Pine	Sawtimber	1.00 CCF		
				Sugar Maple	Sawtimber	7.00 CCF		
				Aspen	Pulpwood	7.00 CCF		
				Mixed Conifer	Pulpwood	1.00 CCF		
				Mixed Hardwood	Pulpwood	472.00 CCF		
				Pine	Pulpwood	1.00 CCF		
				Total PU Quantity And Value		504.00 CCF		

SAMPLE

Sale Name: Red Alert Plus **Contract No:**

Payment Unit No.	Approx. 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 $
08	54.9			Jack Pine	Sawtimber	0.00 CCF		.00
				Red Pine	Sawtimber	826.00 CCF		
				Aspen	Pulpwood	0.00 CCF		
				Mixed Hardwood	Pulpwood	1.00 CCF		
				Pine	Pulpwood	126.00 CCF		
				Total PU Quantity And Value		953.00 CCF		
09	64.9			Jack Pine	Sawtimber	0.00 CCF		.00
				Red Pine	Sawtimber	1,153.00 CCF		
				Aspen	Pulpwood	0.00 CCF		
				Mixed Hardwood	Pulpwood	1.00 CCF		
				Pine	Pulpwood	198.00 CCF		
				Total PU Quantity And Value		1,352.00 CCF		
10	42.3			Aspen	Sawtimber	2.00 CCF		.00
				Mixed Hardwood	Sawtimber	36.00 CCF		
				Red Pine	Sawtimber	0.00 CCF		
				Sugar Maple	Sawtimber	11.00 CCF		
				Aspen	Pulpwood	6.00 CCF		
				Mixed Conifer	Pulpwood	0.00 CCF		
				Mixed Hardwood	Pulpwood	456.00 CCF		
				Pine	Pulpwood	0.00 CCF		
				Total PU Quantity And Value		511.00 CCF		
11	56.7			Aspen	Sawtimber	19.00 CCF		.00
				Mixed Hardwood	Sawtimber	42.00 CCF		
				Red Pine	Sawtimber	0.00 CCF		
				Sugar Maple	Sawtimber	13.00 CCF		
				Aspen	Pulpwood	16.00 CCF		
				Mixed Conifer	Pulpwood	0.00 CCF		
				Mixed Hardwood	Pulpwood	542.00 CCF		
				Pine	Pulpwood	0.00 CCF		
				Total PU Quantity And Value		632.00 CCF		
50	1			Aspen	Sawtimber	2.00 CCF		.00
				Mixed Conifer	Sawtimber	1.00 CCF		
				Mixed Hardwood	Sawtimber	5.00 CCF		
				Sugar Maple	Sawtimber	14.00 CCF		
				Aspen	Pulpwood	3.00 CCF		
				Mixed Conifer	Pulpwood	1.00 CCF		
				Mixed Hardwood	Pulpwood	25.00 CCF		
				Pine	Pulpwood	0.00 CCF		
				Total PU Quantity And Value		51.00 CCF		

SAMPLE

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	12
All	Pulpwood	10

SAMPLE

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/
3688	Brushy (R) (segment 0 to .16)	Single Lane - 5 mph	.16 / .26	7 02/20/2015	FS	FS	FS AC
3369	IROQUOIS (R) (segment 0 to 1)	Single Lane - 10 mph	1 / 1.61	6 02/20/2015	FS	FS	FS AC
3690	Maple Alert (R) (segment 0 to .47)	Single Lane - 5 mph	.47 / .76	8 02/20/2015	FS	FS	FS AC
3690A	Maple Alert Spur A (R) (segment 0 to .13)	Single Lane - 5 mph	.13 / .21	9 02/20/2015	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 December 01, inclusive

AT10 - Purchaser Responsibility to Furnish Crews and Equipment for:

Initial Fire Supression, applicable to BT7.3

Within 5 road miles

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

Within 10 road miles

SAMPLE

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

Maximum Amount: $ $1,200

AT12 - Termination Date, applicable to BT8.2

December 31, 2020

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

First Period: May 15 to March 31, inclusive

Second Period: _____ to _____, inclusive

AT14 - Performance Bond, applicable to BT9.1

Performance Bond Amount: _____

AT15 - Downpayment, applicable to BT4.211

Downpayment Amount: _____

AT16 - Periodic Payment Amount, applicable to BT4.213

	Periodic Payment Determination Date	Amount
Initial Payment:	____	_____
Additional Payment:	____	_____

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

Index Name: Wood Chips **Index Number:** 211135

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

SAMPLE

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)
CT2.352#	DESIGNATION BY SPECIES AND DIAMETER (04/2004)
CT2.355#	INDIVIDUAL TREES, CUT TREE MARKING (06/2009)
CT4.211	DOWNPAYMENT (06/2007)
CT4.212	TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)
CT4.4	PAYMENTS NOT RECEIVED (08/2012)
CT5.12#	USE OF ROADS BY PURCHASER (06/1999)
CT5.213#	DEPOSIT FOR RECONSTRUCTION ENGINEERING SERVICES (04/2004)
CT5.31#	ROAD MAINTENANCE REQUIREMENTS (07/2001)
CT5.32#	ROAD MAINTENANCE DEPOSIT SCHEDULE (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)
CT6.42#	SKIDDING AND YARDING REQUIREMENTS (06/2009)
CT6.7#	SLASH DISPOSAL MEASURES (06/2009)
CT7.2	FIRE PRECAUTIONS (06/2009)
CT8.212	MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

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

Boundary trees for all harvest units have been designated with **ORANGE** paint marks above and below stump height. Boundary trees shall not be cut.

CT2.352# - DESIGNATION BY SPECIES AND DIAMETER *(04/2004)*

Trees that meet Utilization Standards are designated for cutting, as shown on the Tree Designation Table and Sale Area Map, except trees Marked with **ORANGE** paint or described to be left uncut.

See Tree Designation Table.

Additional trees to be cut, if any, are Marked with **N/A** paint.

All **N/A** shall be left as leave trees, unless Marked with **N/A** paint. Leave **N/A** trees of the designated cut species, **N/A** inches stump diameter or greater, to avoid leave tree spacing greater than **N/A** feet. Cutting unit boundaries and other trees that shall be left uncut are Marked with **ORANGE** paint.

Distances are measured horizontal distance, outside bark stump height to outside bark stump height. Stump diameter is measured outside bark at stump height in a horizontal and is the average of a measurement across the short axis through the true center of the stump and a second measurement at right angles to the short axis.

SAMPLE

Purchaser and Forest Service shall agree to skid trail location under BT6.422. Skid trails shall be no greater than **N/A** feet wide with a **N/A** foot spacing. Quantities of trees located in skid trails **are not** Included Timber under AT2.

CT2.352#, Designation by Species & Diameter (DxSPP)

Tree Designation Table

Payment Unit(s)	Designated Species *	More Than Stump Diameter (inches)	Less Than Stump Diameter (inches)
01	All Species except oak, hemlock, and additional trees banded with ORANGE paint	6.0	No Maximum
02	All Species except oak, hemlock, and additional trees banded with ORANGE paint	6.0	No Maximum
03	All Species except oak, jack pine, white pine, and red pine	6.0	No Maximum
04	All Species except oak, white pine, and white spruce	6.0	No Maximum

*All trees are live or recently killed.

SAMPLE

FR3369 is the eastern boundary of Payment Unit 01
Pendills Lake (Plantation) Road is the southern boundary of Payment Unit 04

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

SAMPLE

Sale Name: Red Alert Plus

CT2.355#, Individual Trees, Cut Tree Marking (CTM)

Paint Color Table

Payment Unit(s)	Paint Color
06, 07, 08, 09, 10 and 11	Blue
50	Yellow

FR 3684 is the western boundary for Payment Units 08 and 09
FR3369 is the eastern boundary for Payment Units 07 and 10
The boundary for PU 50 (ROW) is the extent of the YELLOW paint

SAMPLE

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 downpay-ment. 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.

SAMPLE

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.

SAMPLE

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.

SAMPLE

Sale Name: Red Alert Plus

CT5.12#, Use of Roads by Purchaser

Restricted Road Use Table

Road #	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
FR3369	Iroquois	Entire Length		R	*Road is a designated snowmobile trail and may not be used for hauling between December 1 and April 1.

* If operations occur during the winter season, roads crossing snowmobile trails will require banks to be sloped at intersections, beginnings and ends and will require warning signs to warn snowmobile operators where snowplowing begins and ends. Type of signs and locations will be agreed upon with Forest Service Representative as part of the Traffic Control Plan required in BT6.33.

SAMPLE

CT5.213# - DEPOSIT FOR RECONSTRUCTION ENGINEERING SERVICES *(04/2004)*

Purchaser shall make a cash deposit for engineering services (preconstruction and construction) provided by Forest Service for reconstruction of National Forest system roads necessary to accommodate Purchaser's use under this contract, pursuant to 16 USC 537.

The total amount to be deposited by Purchaser for reconstruction related engineering services to be completed by Forest Service personnel or by public works contract is **$1,756.00** . Purchaser shall make this deposit at the end of the first full Normal Operating Season or 12 months from contract award, whichever occurs first. In the event a different deposit schedule is agreed to, such deposit shall be due within 15 days after the date of issue indicated on the initial bill for collection, pursuant to BT4.4.

The amount of the required deposit will be shown as an associated charge on Purchaser's Timber Sale Account. Forest Service shall retain any unexpended deposit for reconstruction related engineering services.

The deposit for reconstruction related engineering services shall be commensurate with project need and Purchaser's road use. Forest Service shall complete reconstruction related engineering services on the following schedule unless a different completion schedule is agreed in writing:

Road or Facility No.	Termini From	Termini To	Engineering Services Completion Date
N/A			

SAMPLE

Reconstruction related engineering services may consist of some or all of the engineering work and expense of: preparing, setting out, controlling, inspecting, and measuring the reconstruction of a National Forest system road.

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.

CT5.31#, Road Maintenance Requirements

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SCHEDULE

Contract Road Maintenance Requirements Summary

Road	Termini			Applicable **Pre-Haul** Road Maintenance Specification			
	From	To	Miles	T-8360			
FR3369	FR3690	S23F	1.6	P			
FR3690	FR3369	END	0.5	P			
FR3690A	FR3690	END	0.2	P			
FR3688	FR3369	END	0.2	P			
FR3684	FR3052	End of PU8	0.7	P			
FR3684A	FR3684	END	0.4	P			
S04B	FR3369	PU4	0.4	P			

Road	Termini			Applicable **During-Haul** Road Maintenance Specification			
	From	To	Miles	T-8360			
FR3369	FR3690	S23F	1.6	P			
FR3690	FR3369	END	0.5	P			
FR3690A	FR3690	END	0.2	P			
FR3688	FR3369	END	0.2	P			
FR3684	FR3052	End of PU8	0.7	P			
FR3684A	FR3684	END	0.4	P			
S04B	FR3369	PU4	0.4	P			

SAMPLE

Road	Termini			Applicable **Post-Haul** Road Maintenance Specification			
	From	To	Miles	T-8360			
FR3369	FR3690	S23F	1.6	P			
FR3690	FR3369	END	0.5	P			
FR3690A	FR3690	END	0.2	P			
FR3688	FR3369	END	0.2	P			
FR3684	FR3052	End of PU8	0.7	P			
FR3684A	FR3684	END	0.4	P			
S04B	FR3369	PU4	0.4	P			

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

CT5.31#, Road Maintenance Requirements

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.

SAMPLE

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.

CT5.31#, Road Maintenance Requirements

SECTION 4. ROAD MAINTENANCE SPECIFICATIONS

INCLUDED SPECIFICATIONS

Specification No.	Specification Title
T-8360	Composite High Clearance Road Maintenance

SAMPLE

CT5.31#, Road Maintenance Requirements

Contract Road Maintenance Requirements Summary

T-8360 Composite High Clearance Road Maintenance (continued)

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.

SAMPLE

CT5.32# - ROAD MAINTENANCE DEPOSIT SCHEDULE *(07/2001)*

Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Purchaser's performance of road maintenance, Purchaser shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Purchaser's commensurate use of each road listed in the Road Maintenance Plan in CT5.31#.

Purchaser and Forest Service may agree in writing on adjustment of such rates. If Purchaser uses roads under jurisdiction of Forest Service other than those listed in the Road Maintenance Plan, Forest Service shall establish rates commensurate with Purchaser's use of such roads.

The Required Deposits for Forest Service work in lieu of Purchaser performance and for deferred maintenance is: **$1.72** per **CCF** .

The following table lists who Purchaser will make deposits for road maintenance to, and the rate per unit of measure of the deposit. The Road Maintenance Agreement is available for inspection at the Forest Supervisor's office.

Deposit Made To	Rate	Unit of Measure
N/A		

SAMPLE

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 **one** -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 segements 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 **three Payment Units, in addition to the specified road unit (Payment Unit 50)** Payment Units may be released at one time, and the sequence of cutting Payment Units shall be: **at the option of the Purchaser** .

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:
Within ALL Payment Units, operations may need to be halted during spring thaw and rainy periods to prevent excessive rutting and compaction. Operations may need to be halted during drought periods, as soils are vulnerable to erosion.

Within Payment Units 8 and 9, logging will be halted unless operator demonstrates they can operate without damaging residual trees during the typical bark slippage season (April 1 until July 1, inclusive).

Within Payment Units 07, 10 and 11, damage to wood quality advanced regeneration of hardwood species should be minimized. Skid trail designation may be requested, if needed.

Within Payment Unit 4, all slash shall remain on site.

All slash resulting from Purchaser's operations must lay within 4 feet of the ground. Windrowing of slash is to be avoided.

Prohibited operations/activities:
Decking is not allowed within 70 feet of FR3052.

No slash is allowed in the roadway.

SAMPLE

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.

CT6.42# - SKIDDING AND YARDING REQUIREMENTS *(06/2009)*

As used in this provision, skidding equipment includes rubber-tire and track-mounted skidders, forwarders, fell bunchers, processors and any other mechanized equipment that is used off of landings and roads.

Within Payment Unit(s)
Payment Units 08 and 09, unless otherwise changed by written agreement, the overall width of the skidding equipment, including blade, shall not exceed 9.5 feet,
N/A.

Within portions of Payment Unit(s)

N/A, as shown on Sale Area Map with symbol "SYR," **N/A**.

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."

SAMPLE

Other specific slash disposal requirements are as follows:

Within a 25 foot strip, measured from the cleared edge (or tree-line) along FR3052, all slash resulting from Purchaser's operations shall be removed.

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.

SAMPLE

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.

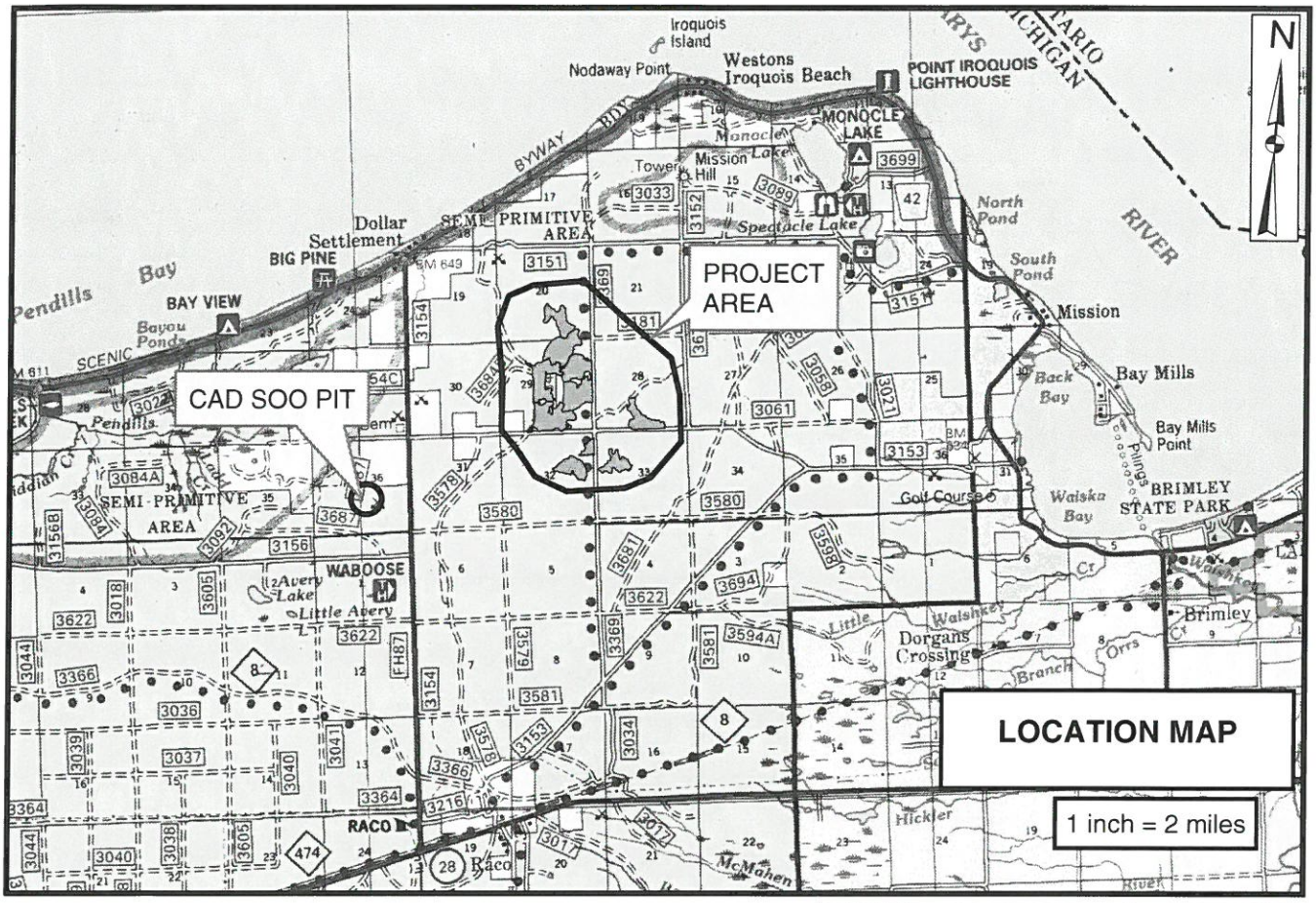
Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

HIAWATHA NATIONAL FOREST

SPECIFIED ROAD DRAWINGS

RED ALERT PLUS SALE

ST. IGNACE DISTRICT



INDEX OF SHEETS

1..... Cover Sheet
2..... Est. of Quantities & Const. Notes
3 - 5.....Typicals & Details
6 - 9.....Description of Work Sheet
10.....Plan View

Road No.	Road Name	Length	C/R
3369	Iroquois	1.00	R
3688	Brushy	0.16	R
3690	Maple Alert	0.47	R
3690A	Maple Alert Spur A	0.13	R

Plans, Specifications, and Estimates Reviewed and Certified as to Content and Correctness

DESIGNED:

Civil Engineering Technician — date 12/23/14

REVIEWED:

Title: Civ Eng Tech — date 2/10/15

APPROVED:

Forest Engineer — date 2/18/15

District Ranger — date 2/20/15

RED ALERT PLUS SALE ROADS	SHEET TITLE	SCALE	FILE NO.	SHEET
	COVER SHEET	AS SHOWN	HI-530	1 OF 10

ESTIMATE OF QUANTITIES - RED ALERT PLUS SALE SPECIFIED ROADS									
Item Number	Description	Unit	3369	3688	3690	3690A	**Total**	Unit Price	**Total**
10101	Mobilization	LS	0.4	0.2	0.2	0.2	1.00	$1,000.00	$1,000.00
20101	Clearing and grubbing	LS	0.10	0.20	0.50	0.20	1.00	$2,200.00	$2,200.00
20301	Excavation	STA	53.0	8.2	24.7	6.6	92.50	$60.00	$5,550.00
20302	Construct road closure	Each	0	0	0	1	1.00	$200.00	$200.00
30401	Aggregate Base, Pit Run	CY	100	60	100	0	260	$9.00	$2,340.00
								Total	**$11,290.00**

All items are contract quantities.
LS = Lump Sum
STA = Station of 100'
CY = Cubic Yard
Aggregate Quantities shown are loose volume hauled. This quantity is estimated by calculating compacted in place volume and adding 25%.

CONSTRUCTION NOTES

101 – CONTROL OF WORK

Construction Staking: The Forest Service will initially set all construction stakes. Clearing limits will be designated with pink flagging and/or lath with pink flagging. It is the responsibility of the contractor to maintain the construction stakes, lath, and flagging for the duration of the project.

101.02 Inspection of Construction: Furnish written records documenting aggregate hauled and placed. Records must show, at a minimum, date, pit location, road number, quantity, and be signed by the construction representative. Submit records to the Engineering Representative as the work progresses.

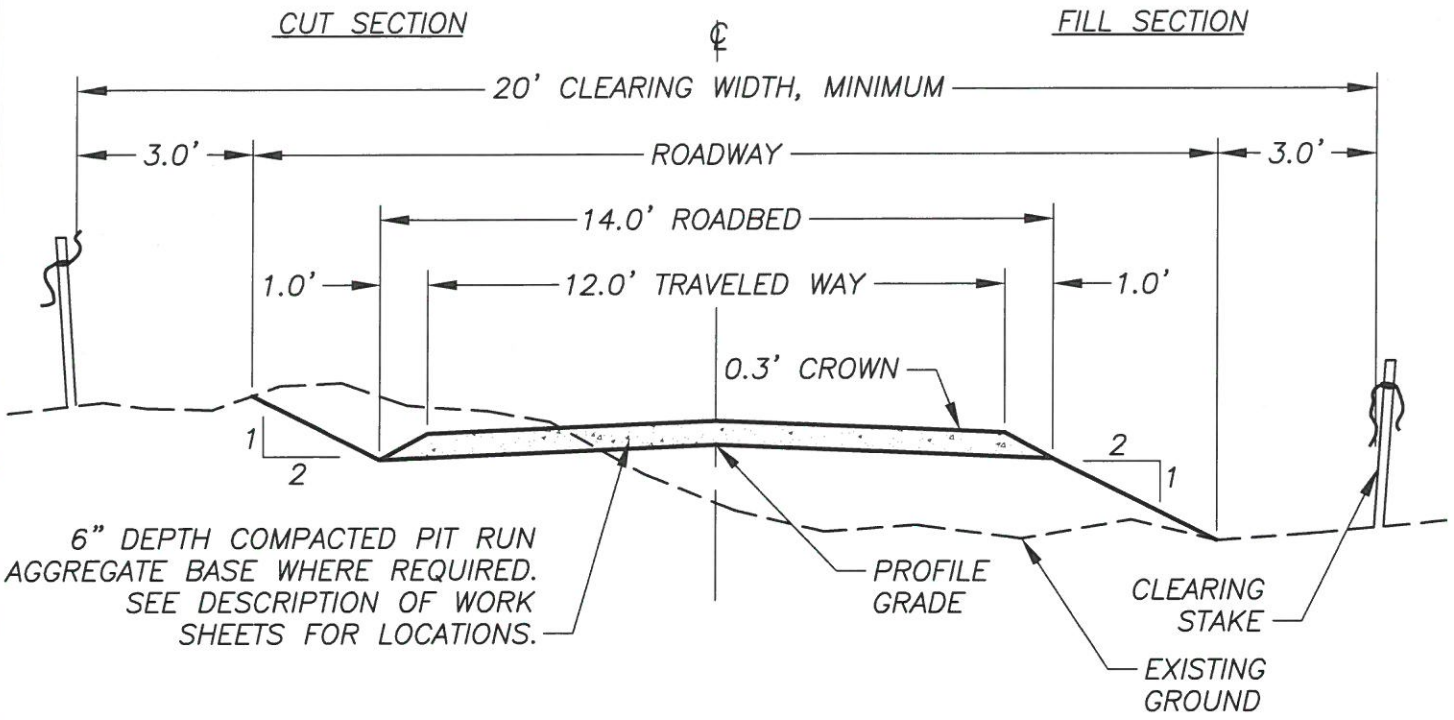
203 – EXCAVATION

Construction Tolerances:

Roadbed width	+1.0'
Alignment	2.0'
Slopes	+/- 1/2:1

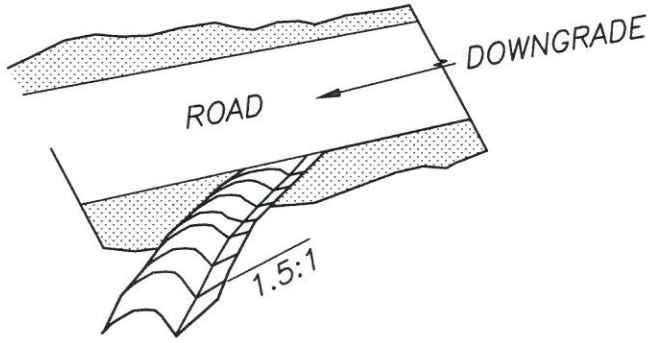
Grade: Profile grade closely follows existing ground, cuts and fills up to 1' could be required to achieve an acceptable roadbed.

304 – AGGREGATE **Source:** The source for Pit Run Aggregate, item 30401, will be the Forest Service Cad Soo Pit, located in T47N, R4W, S36. The exact area in the pit to excavate will be approved by the Engineer. Finished pit slopes will be 2:1 or flatter unless otherwise approved.
Aggregate base material from sources other than Forest Service pits must be approved in writing by the engineer prior to hauling any material.
Remove loose rocks over 4" in any dimension from road surface, dispose of rocks outside clearing limits.



TYPICAL CROSS SECTION

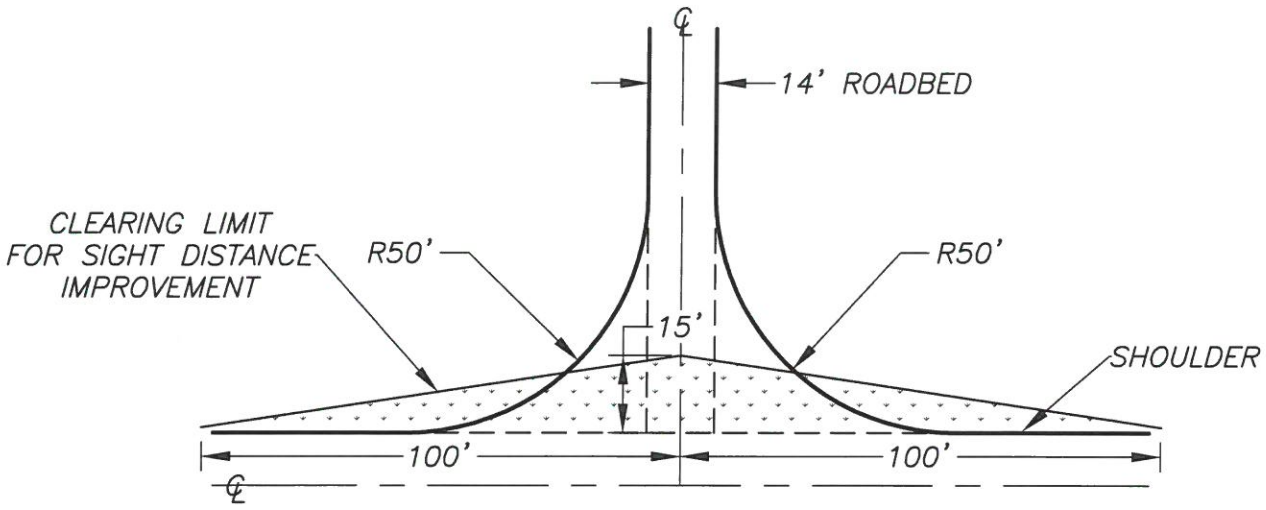
CONSTRUCT ALL SPECIFIED ROAD SEGMENTS TO THIS TYPICAL CROSS SECTION. SEE DESCRIPTION OF WORK SHEETS FOR DETAILS.



TYPICAL LEAD OFF DITCH

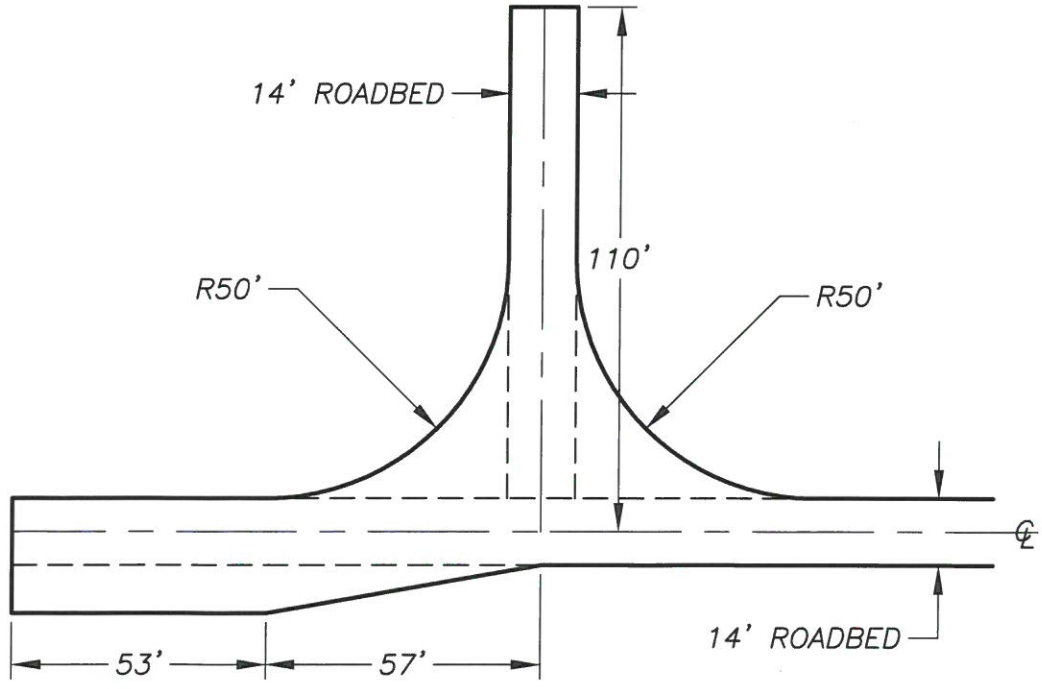
CONSTRUCT 5 LEAD OFF DITCHES ON FR3369 AT LOCATIONS STAKED ON THE GROUND BY THE ENGINEER, AVERAGE LENGTH IS 20', DEPTH AS STAKED.
THIS WORK INCLUDED UNDER ITEM 20301.

RED ALERT PLUS SALE ROADS	SHEET TITLE	SCALE	FILE NO.	SHEET
	TYPICALS / DETAILS	NO SCALE	HI-530	3 OF 10



TYPICAL INTERSECTION

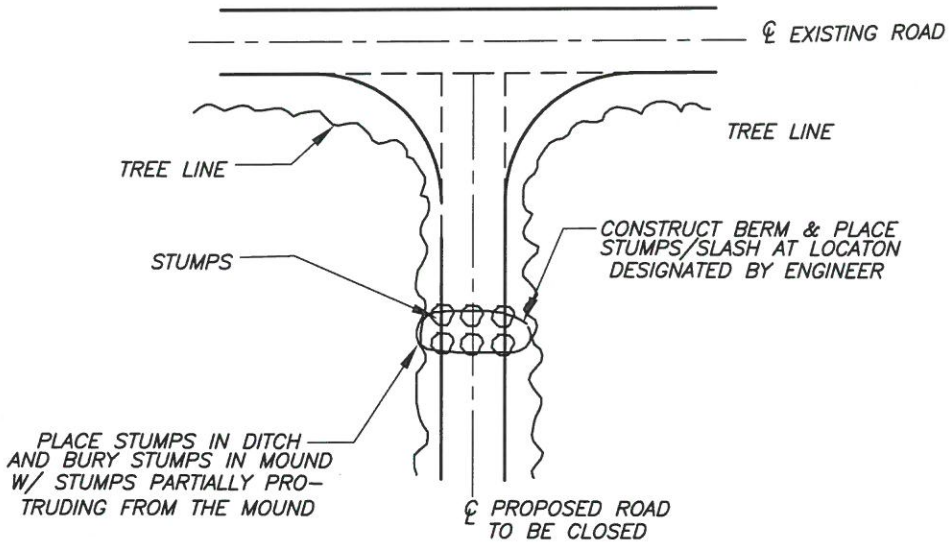
NUMBER TO CONSTRUCT IS 3.
SEE DESCRIPTION OF WORK SHEETS FOR LOCATIONS.



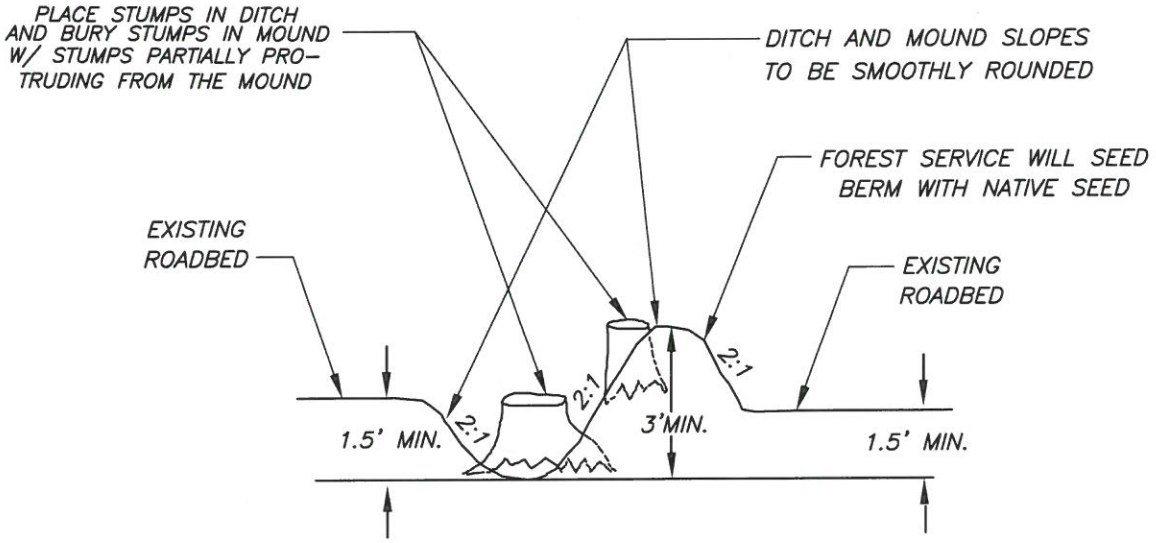
TYPICAL L-TURNAROUND

NUMBER TO BUILD IS 3.
SEE DESCRIPTION OF WORK SHEETS FOR LOCATIONS.

RED ALERT PLUS SALE ROADS	SHEET TITLE: TYPICALS	SCALE: NO SCALE	FILE NO.: HI-530	SHEET: 4 OF 10



PLAN VIEW
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE

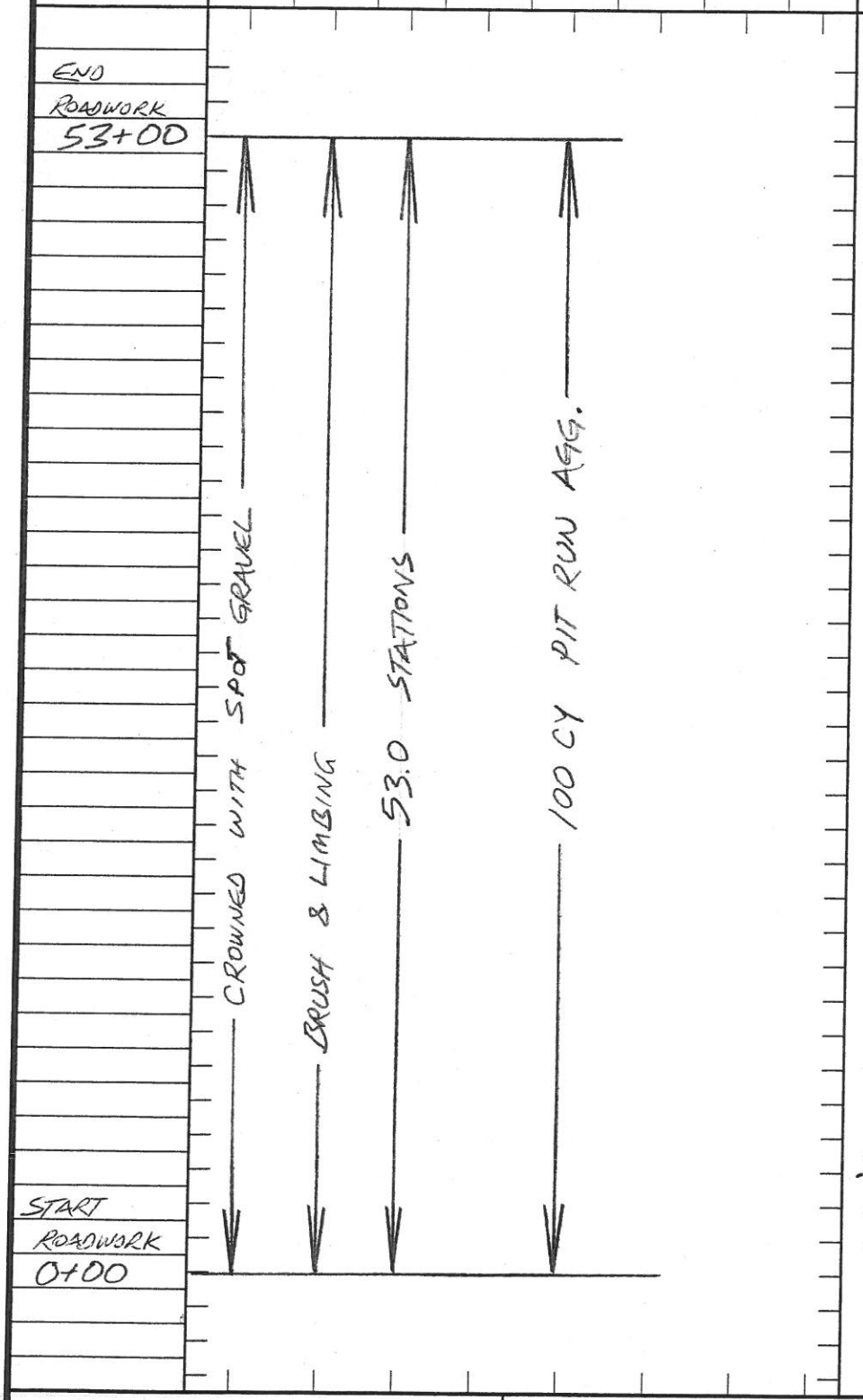
TYPICAL STUMP/BERM ROAD CLOSURE

NUMBER TO BUILD IS 1. EXACT LOCATION WILL BE STAKED ON THE GROUND BY THE ENGINEER.

RED ALERT PLUS SALE ROADS	SHEET TITLE	SCALE	FILE NO.	SHEET
	TYPICAL ROAD CLOSURE	NO SCALE	HI-530	5 OF 10

DESCRIPTION OF WORK

ROAD NO.
3369



END ROADWORK AT INTERSECTION WITH 3690.

CONSTRUCT 5 LEAD OFF DITCHES, LOCATION & DIMENSIONS WILL BE STAKED BY THE ENGINEER.

HAUL & PLACE 100 CY PIT-RUN AGG, LOCATIONS WILL BE STAKED ON THE GROUND BY THE ENGINEER.

START ROADWORK AT INTERSECTION WITH PENDILLS LAKE ROAD (PLANTATION)

RED ALERT PLUS SALE ROADS	SHEET TITLE: DESCRIPTION OF WORK	SCALE: NO SCALE	FILE NO.: HI-530	SHEET: 6 OF 10

DESCRIPTION OF WORK

ROAD NO.
3688

LOCATION (STATION)	TYPICAL CROSS SECTION	CLEARING AND GRUBBING	EXCAVATION		AGGREGATE BASE				DETAILS
END ROADWORK 8+20									CONSTRUCT TURNAROUND AT 7+10 RIGHT
	CROWNED WITH SPOT GRAVEL	20' WIDTH MINIMUM	8.2 STATIONS		30 CY AT TURNAROUND				
					30 CY AT INTERSECTION				
START ROADWORK 0+00									START ROAD WORK AT INTERSECTION WITH 3369.

RED ALERT PLUS SALE ROADS	SHEET TITLE: DESCRIPTION OF WORK	SCALE: NO SCALE	FILE NO.: HI-530	SHEET: 7 OF 10

DESCRIPTION OF WORK

ROAD NO.
3690

LOCATION (STATION)	TYPICAL CROSS SECTION	CLEARING AND GRUBBING	EXCAVATION		AGGREGATE BASE				DETAILS
END ROADWORK 24+70									END ROADWORK AT 24+70, CONSTRUCT TURNAROUND AT 23+60 RIGHT
	CROWNED WITH SPOT GRAVEL	20' MINIMUM WIDTH	24.7 STATIONS	30 CY AT INTERSECTION WITH 3690A	30 CY AT TURNAROUND				
START ROADWORK 0+00									START ROAD WORK AT INTERSECTION WITH 3369

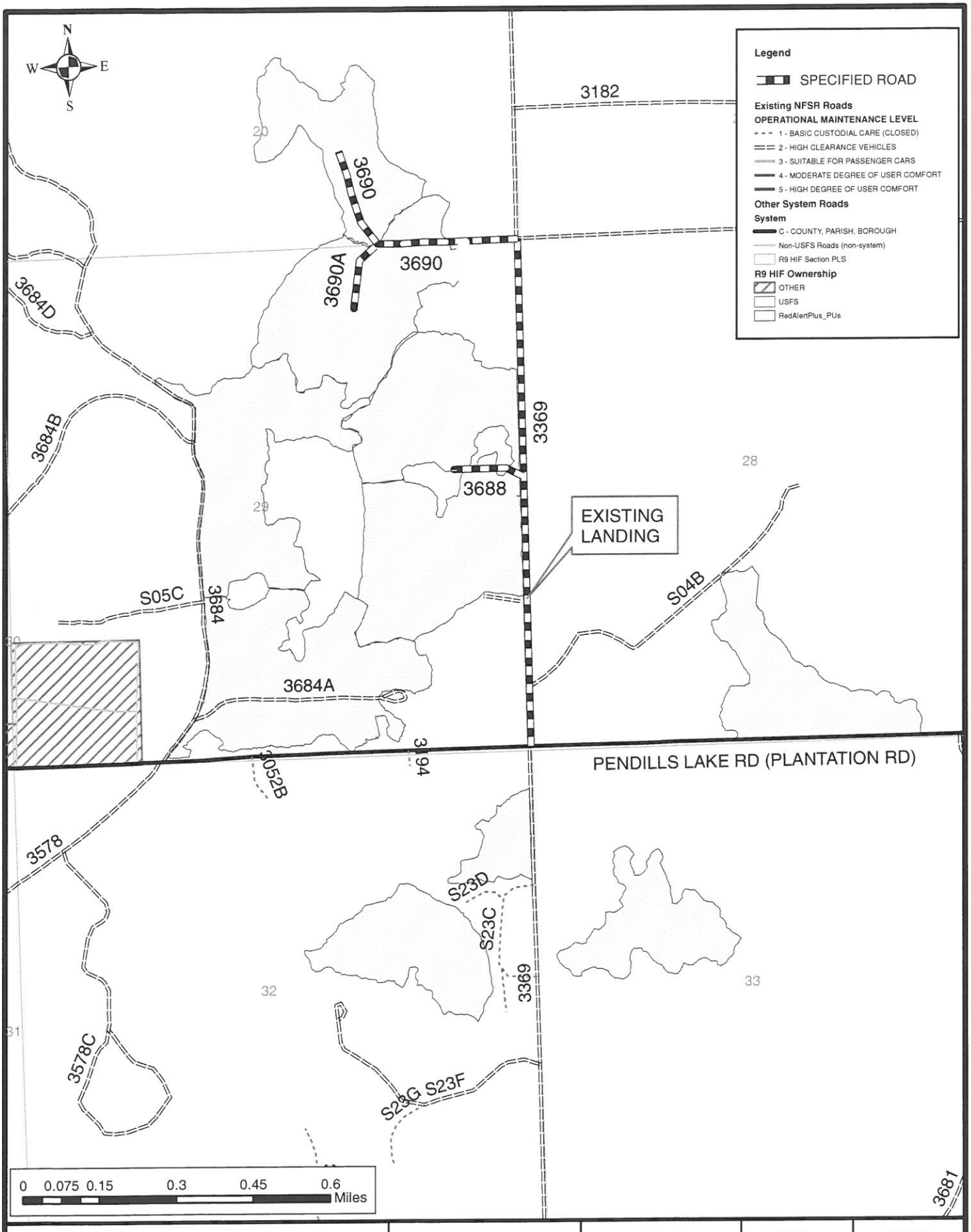
RED ALERT PLUS SALE ROADS	SHEET TITLE: DESCRIPTION OF WORK	SCALE: NO SCALE	FILE NO.: HI-530	SHEET: 8 OF 10

DESCRIPTION OF WORK

ROAD NO.
3690A

LOCATION (STATION)	TYPICAL CROSS SECTION	CLEARING AND GRUBBING	EXCAVATION	DETAILS
END ROADWORK 6+60				END ROADWORT AT 6+60, CONSTRUCT TURNAROUND AT 5+50 LEFT, AS STAKED.
	CROWNED	20' MINIMUM WIDTH	6.6 STATIONS	CONSTRUCT STUMP/BERM ROAD CLOSURE AT LOCATION STAKED ON THE GROUND BY THE ENGINEER.
START ROADWORK 0+00				START ROADWORK AT INTERSECTION WITH 3690

RED ALERT PLUS SALE ROADS	SHEET TITLE: DESCRIPTION OF WORK	SCALE: NO SCALE	FILE NO.: HI-530	SHEET: 9 OF 10



Red Alert Plus Sale Roads	SHEET TITLE PLAN VIEW	SCALE 1:15,840	FILE NO. HI-530	SHEET 10 OF 10

HIAWATHA NATIONAL FOREST

SPECIFICATIONS FOR TIMBER SALE ROADWORK

Red Alert Plus Timber Sale

Index of included specifications:

Section 101 – Control of Work

Section 201-Clearing and Grubbing

Section 203 – Excavation

Section 304 – Aggregate

SECTION 101 – CONTROL OF WORK

101.01 Use of Roads by Contractor

The Contractor is authorized to use roads under the jurisdiction of the Forest Service for all activities necessary to complete this contract, subject to the limitations and authorizations designated in the Road Order(s) or described in the contract, when such use will not damage the roads or national forest resources, and when traffic can be accommodated safely.

101.02 Inspection of Construction.

Maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. Record the work and perform calculations to determine quantities for each work item. Maintain complete inspection records and make them available to the Government. Use an acceptable format for measurement records and include, at a minimum: project name, work item, date the work was performed, location of the work, measured quantity, calculations made to arrive at the quantity, and name of person(s) measuring the work.

The presence or absence of a Government inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specification without the Contracting Officer's written authorization.

The Contractor shall, without charge, replace or correct work found by the Government not to conform to contract requirements, unless in the public interest the Government consents to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.

Perform all work to the lines, grades, cross-sections, dimensions, and processes or material requirements shown on the plans or specified in the contract.

Remove and replace work that does not conform to the contract, or to prevailing industry standards where no specific contract requirements are noted, at no cost to the Government.

101.03 Public Traffic.

Description

This work consists of controlling and protecting public traffic adjacent to and with the project. All signing shall conform to the Michigan Manual on Uniform Traffic Control Devices (MMUTCD)

General

Unless otherwise provided for, keep existing roads open to all traffic during road improvement work, and maintain them in a condition that will adequately accommodate traffic. Delays may not exceed 30 minutes at any one time followed by an open period of no less than 5 minutes.

Perform no work that interferes or conflicts with traffic or existing access to the roadway surface until a traffic control plan has been approved. Post construction signs and traffic control devices in conformance with MUTCD. All required signs will be in place and approved prior to beginning work on project.

If the Contractor agrees in writing to allow public traffic to use a new road being constructed prior to completion, it will be considered an existing road for traffic control purposes.

Temporary Traffic Control

Install and maintain temporary traffic control devices adjacent to and within the project as required by the approved traffic control plan and the MUTCD. Install and maintain traffic control devices as follows:

(a) Furnish and install traffic control devices before the start of construction operations.
(b) All detours outside of clearing limits will be approved in writing by the Contracting Officer as part of the traffic control plan.
(c) Install only those traffic control devices needed for each stage or phase.
(d) Relocate temporary traffic control devices as necessary.
(e) Remove devices that no longer apply to the existing conditions.
(f) Immediately replace any device that is lost, stolen, destroyed, or inoperative.
(g) Keep temporary traffic control devices clean.
(h) Remove all temporary traffic control devices upon contract completion or when approved.
(i) When required, use flaggers certified by the American Traffic Safety Services Association, the National Safety Council, the International Municipal Signal Association, a state agency, or other acceptable organization. Perform the work described under MUTCD Part 6. Use type III, VII, VIII, or IX retroreflective sheeting on flagger paddles. Do not use flags. Flaggers must wear high visibility safety apparel as required by MUTCD 6E.02.

Temporary Closures

Road segments may be closed as agreed to by the CO. The maximum consecutive days of closure shall be followed by a minimum number of consecutive days open to traffic. Maintain traffic control devices during closure period(s). Appropriate barricades and signs will be erected and maintained as shown in the traffic control plan or as otherwise designated.

Prior to closing roads during construction, give written notice to the Contracting Officer at least 10 days in advance.

SECTION 201 – CLEARING AND GRUBBING

DESCRIPTION

201.01 This work shall consist of clearing, grubbing, and disposing of or treatment of timber, construction slash, and debris.

CONSTRUCTION

201.02 CLEARING & GRUBBING. All debris, trees, stumps, roots, and other protruding vegetative material within the clearing limits shall be cleared, grubbed, removed, and disposed of, except that undisturbed stumps in locations SHOWN ON THE DRAWINGS may remain.

Cut stumps to be grubbed to 12" maximum height before or immediately after grubbing.

Roadway must be grubbed. Stump holes caused by grubbing shall be leveled. Areas outside the roadway but within the clearing limits need not be grubbed. Height of stumps left shall not exceed 12" above ground.

Branches on remaining trees or shrubs shall be trimmed to give a clear height of 14 feet above the roadbed.

Trim tree limbs as near flush with the trunk as practicable.

Clearing shall be done in such a manner to prevent damage to remaining trees and other property.

Grubbing shall include removal of stumps and exposed roots over 3" in diameter.

201.03 PIONEERING. Pioneering operations shall be conducted to minimize mixing of slash and excavated material. Final back slopes shall not be undercut, material shall not be deposited outside the fill and excavation limits, nor shall drainage be restricted.

201.04 DISPOSAL. Treatment of construction slash shall be accomplished by scattering slash outside the clearing limits without damaging trees. All logs shall be limbed. Logs and stumps shall be placed away from trees, positioned so they will not roll, and not be placed on top of one another. Scattered slash shall be lopped and scattered to reduce concentrations and made to lie within four feet of the ground concurrent with the clearing and grubbing operations unless other requirements are SHOWN ON THE DRAWINGS. Grubbed and scattered stumps shall be turned upright with roots down.

Dispose of merchantable timber designated for removal according to the B(BT) provisions of the timber sale contract. Deck merchantable timber adjacent to the roadway in areas approved by the Engineer.

MEASUREMENT

201.05 When Clearing & Grubbing is shown in the Schedule of Items, the work will be either on a lump sum basis where no measurement will be made, or on an area basis. For the area basis the original design quantity as shown on the Schedule of Items will be the final quantity, unless adjustments are made as specified in the changes provision. The design quantity is the number of acres calculated to be cleared and/or grubbed within the limits SHOWN ON THE DRAWINGS.

SECTION 203 – EXCAVATION

DESCRIPTION

203.01 This work shall consist of all excavation regardless of its nature, borrow excavation, embankment construction, and shaping of roadway including such items as drainage dips, ditches, turnarounds, and other subsidiary work.

CONSTRUCTION

203.02 All suitable excavated material shall be used to construct a roadway conforming to the typical section(s) and tolerances SHOWN ON THE DRAWINGS.

Side casting and end dumping will be permitted for embankment construction; however, excavation and embankment shall be confined within the roadway limits. Compaction shall be accomplished by operating equipment over the full width of the traveled way. Rocks too large for incorporation shall be placed to the side of the embankment so they will not roll, obstruct drainage, or hinder use and maintenance of the road. Excess excavation and unsuitable material shall be disposed of as SHOWN ON THE DRAWINGS or in locations approved by the Engineer.

Location and requirements for borrow excavation are SHOWN ON THE DRAWINGS.

The finished slopes shall be left in a roughened condition to facilitate vegetative growth.

Rocks in the roadbed that protrude less than 2" above the finished road surface will be allowed to remain in place.

When specified, topsoil shall be salvaged in sufficient quantity to meet the quantity requirements SHOWN IN THE SCHEDULE OF ITEMS. Topsoil shall consist of loose, friable, sandy loam, free of admixture of subsoil, refuse, stumps, roots, rocks, brush, weeds, of other material that would be detrimental to the development of vegetative growth. Topsoil, as used herein, shall mean that portion of the soil profile defined technically as the "A" horizon by the Soil Science Society of America.

MEASUREMENT

203.03 The method of measurement will be on a linear basis or cubic yard basis. In both cases the original design quantity as shown on the Schedule of Items will be the final quantity, unless adjustments are made as specified in the changes provision. For linear measurements the design quantity is the length of road measured along quantity is computed using the average end area method.

SECTION 304 – AGGREGATE

DESCRIPTION

304.01 This work shall consist of furnishing, hauling, and placing one or more courses of aggregate surface course on the approved subgrade. Aggregate shall be pit-run, screened, crushed, or furnished by the Government as SHOWN IN THE SCHEDULE OF ITEMS.

MATERIALS

304.02 Materials shall be obtained from sources SHOWN ON THE DRAWINGS or other approved sources. Aggregate quality, production, and gradation requirements are SHOWN ON THE DRAWINGS.

When a gradation is specified, the Contractor shall submit test results and a Certificate of Compliance that states that the gradation of the aggregate meets the contract requirements. Aggregates shall be stockpiled, removed, transported, and placed in a manner that will preserve specified gradation and avoid contamination. Samples may be required at any time to validate gradation.

CONSTRUCTION

304.03 Prior to aggregate placement, the proposed portion of the roadbed shall (1) be completed in accordance with the specifications; (2) have hauling and spreading equipment operated uniformly over the full width; and (3) be approved in writing by the Engineering Representative.

The aggregate shall be spread in a uniform layer, with no segregation of size, and to a loose depth that shall have the required thickness when compacted. The maximum compacted thickness of any one layer shall not exceed six inches.

The aggregate shall be compacted by one of the following methods as specified on the Schedule of Items:

Compaction A. Aggregate shall be compacted by operating spreading and hauling equipment over the full width of each layer of the aggregate.

Compaction B. Each layer of aggregate shall be compacted to a density of at least 95 percent of the maximum density, as determined by AASHTO T 99, Method C or D.

The final compacted surface shall be smooth and the thickness shall not vary more than the tolerance SHOWN ON THE DRAWINGS. The compacted thickness shall not be consistently above or below the specified thickness.

MEASUREMENT

304.04 The method of measurement will be on a volume basis or a weight basis as shown in the Schedule of Items. The volume basis will be the computed number of cubic yards adjusted for compaction, that is loose volume. The original design quantity shown in the Schedule of Items will be the final quantity unless adjustments are made as specified in the changes provision.