

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 Ontonagon	Region Eastern	Contract Number
Sale Name Bell Ringer PR		Award Date	Termination Date 08/31/2019

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)

(Address)

(Name)

(Address)

(Title)

By: _____^{2/}
(Purchaser)

(Title)

(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: Bell Ringer 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.

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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 756 acres more or less is located in:

T.49N.-R.38W. S.1,2,3,10,11,12; Ontonagon County

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	75.00	CCF	9.0	1	8	7.6	40
Mixed Hardwood	Sawtimber	439.00	CCF	11.0	1	8	9.6	50
Sugar Maple	Sawtimber	208.00	CCF	11.0	1	8	9.6	50
Aspen	Pulpwood	258.00	CCF	5.0	1	8	4.0	70
Mixed Conifer	Pulpwood	151.00	CCF	5.0	1	8	4.0	70
Mixed Hardwood	Pulpwood	2,013.00	CCF	5.0	1	8	4.0	70
Total Quantity		3,144.00	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)	_____	275
Incompletely Measured Payment Units (BT2.36)	_____	_____

Sale Name: Bell Ringer 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				
			Base \$	Advertised \$	Bid Premium \$	Bid (Flat) \$	Required Deposits Slash Disposal \$
Mixed Conifer	Sawtimber	CCF	1.00	17.93			.00
Mixed Hardwood	Sawtimber	CCF	3.46	59.89			.00
Sugar Maple	Sawtimber	CCF	5.00	172.19			.00
Aspen	Pulpwood	CCF	1.00	28.67			.00
Mixed Conifer	Pulpwood	CCF	1.00	4.53			.00
Mixed Hardwood	Pulpwood	CCF	1.00	10.50			.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: Bell Ringer 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	45			Mixed Conifer Sawtimber 16.00 CCF		.00
				Mixed Hardwood Sawtimber 103.00 CCF		
				Sugar Maple Sawtimber 39.00 CCF		
				Aspen Pulpwood 0.00 CCF		
				Mixed Conifer Pulpwood 36.00 CCF		
				Mixed Hardwood Pulpwood 276.00 CCF		
				Total PU Quantity And Value		
002	37			Mixed Conifer Sawtimber 10.00 CCF		.00
				Mixed Hardwood Sawtimber 85.00 CCF		
				Sugar Maple Sawtimber 51.00 CCF		
				Aspen Pulpwood 5.00 CCF		
				Mixed Conifer Pulpwood 20.00 CCF		
				Mixed Hardwood Pulpwood 317.00 CCF		
				Total PU Quantity And Value		
003	10			Mixed Conifer Sawtimber 1.00 CCF		.00
				Mixed Hardwood Sawtimber 8.00 CCF		
				Sugar Maple Sawtimber 4.00 CCF		
				Aspen Pulpwood 23.00 CCF		
				Mixed Conifer Pulpwood 1.00 CCF		
				Mixed Hardwood Pulpwood 68.00 CCF		
				Total PU Quantity And Value		
004	54			Mixed Conifer Sawtimber 11.00 CCF		.00
				Mixed Hardwood Sawtimber 66.00 CCF		
				Sugar Maple Sawtimber 24.00 CCF		
				Aspen Pulpwood 72.00 CCF		
				Mixed Conifer Pulpwood 25.00 CCF		
				Mixed Hardwood Pulpwood 345.00 CCF		
				Total PU Quantity And Value		
005	18			Mixed Conifer Sawtimber 5.00 CCF		.00
				Mixed Hardwood Sawtimber 45.00 CCF		
				Sugar Maple Sawtimber 4.00 CCF		
				Aspen Pulpwood 12.00 CCF		
				Mixed Conifer Pulpwood 13.00 CCF		
				Mixed Hardwood Pulpwood 190.00 CCF		
				Total PU Quantity And Value		
006	63			Mixed Conifer Sawtimber 15.00 CCF		.00
				Mixed Hardwood Sawtimber 70.00 CCF		
				Sugar Maple Sawtimber 57.00 CCF		
				Aspen Pulpwood 50.00 CCF		
				Mixed Conifer Pulpwood 10.00 CCF		
				Mixed Hardwood Pulpwood 450.00 CCF		
				Total PU Quantity And Value		
007	47			Mixed Conifer Sawtimber 15.00 CCF		.00
				Mixed Hardwood Sawtimber 48.00 CCF		
				Sugar Maple Sawtimber 23.00 CCF		
				Aspen Pulpwood 56.00 CCF		
				Mixed Conifer Pulpwood 16.00 CCF		
				Mixed Hardwood Pulpwood 281.00 CCF		
				Total PU Quantity And Value		

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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 \$
008	1			Mixed Conifer Sawtimber 2.00 CCF		.00
				Mixed Hardwood Sawtimber 14.00 CCF		
				Sugar Maple Sawtimber 6.00 CCF		
				Aspen Pulpwood 40.00 CCF		
				Mixed Conifer Pulpwood 30.00 CCF		
				Mixed Hardwood Pulpwood 86.00 CCF		
				Total PU Quantity And Value 178.00 CCF		

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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

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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/
1187-E	FDR1187-E (C) (segment 0 to .16)	Single Lane - 15 mph	.16 / .26	SR-01 thru SR-45 03/28/2016	FS	FS	FS AC
888	FDR 888 (R) (segment 0 to .14)	Single Lane - 15 mph	.14 / .23	SR-01 thru SR-45 03/28/2016	FS	FS	FS AC
1187	FDR1187 (R) (segment 0 to .79)	Single Lane - 15 mph	.79 / 1.27	SR-01 thru SR-45 03/28/2016	FS	FS	FS AC
1187-C	FDR1187-C (R) (segment 0 to .37)	Single Lane - 15 mph	.37 / .6	SR-01 thru SR-45 03/28/2016	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, 2019

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

First Period: August 01 to August 31, inclusive

Second Period: December 15 to March 15, inclusive

AT14 - Performance Bond, applicable to BT9.1

Performance Bond Amount: _____

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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)
CT4.211	DOWNPAYMENT (06/2007)
CT4.212	TEMPORARY REDUCTION OF DOWNPAYMENT (08/2009)
CT4.4	PAYMENTS NOT RECEIVED (08/2012)
CT5.103#	APPROACHES TO SURFACED ROADS (06/2009)
CT5.12#	USE OF ROADS BY PURCHASER (06/1999)
CT5.221#	MATERIAL SOURCES (04/2004)
CT5.31#	ROAD MAINTENANCE REQUIREMENTS (07/2001)
CT5.32#	ROAD MAINTENANCE DEPOSIT SCHEDULE (08/2012)
CT5.33#	SNOW REMOVAL (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.

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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

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

Cut Tree Marking Table

Payment Units	Paint Color
Payment Units 001 - 007	BLUE
008 (Roads)	YELLOW

Sale Name: Bell Ringer PR

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.

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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.

CT5.103# - APPROACHES TO SURFACED ROADS (06/2009)

Purchaser shall apply and maintain 4 inches inches of 22-A crushed gravel on all Temporary Road approaches to surfaced roads for a distance of 50 feet (or as directed by the Forest Service) feet back from the surfaced road. Surfaced roads include those with gravel, crushed rock, asphalt.

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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.

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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 888	FR 888	POB	0.14	U	Unsuitable for hauling prior to completion of agreed reconstruction.
FR 888	FR 888	0.14	0.29	X	Hauling Prohibited; use as a skid trail must be approved by the Forest Service.
FR 888	FR 888	0.29	POE	P	Use Prohibited.
FR 1187	FR 1187	POB	POE	U	Unsuitable for hauling prior to completion of agreed reconstruction.
FR 1187-C	FR 1187-C	POB	POE	U	Unsuitable for hauling prior to completion of agreed reconstruction.
Mud Creek/ Gardner Road	Mud Creek/ Gardner Road	Inter- section with FR 888	Going south	X	Hauling Prohibited (due to weight restricted bridge).

POB = Point of Beginning
 POE = Point of Ending

Note: hauling includes empty or loaded log trucks.

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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: Bell Ringer 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
Sand Fill	N/A	USFS	CY	N/A	180	180 CY

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

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CTS.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.

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SCHEDULE

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications								
	From	To		T-8030	T-8110	T-8130	T-8310	T-8340	T-8350	T-8360	T-8420	T-8620
N/A												

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

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications							
	From	To		T-8030	T-8110	T-8130	T-8340	T-8350	T-8360	T-8420	T-8620
888	0.00	0.14	0.14	P		P	P		P		P
1187	0.00	0.83	0.83	P		P	P		P		
1187-C	0.00	0.37	0.37	P		P	P		P		
1187-E	0.00	0.16	0.16	P		P	P		P		
1180	0.00	1.40	1.40	P	D	D	D			D	

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-8110	T-8130	T-8340	T-8350	T-8360	T-8420	T-8620
888	0.00	0.14	0.14			P	P	P	P		P
1187	0.00	0.83	0.83			P	P	P	P		P
1187-C	0.00	0.37	0.37			P	P	P	P		
1187-E	0.00	0.16	0.16			P	P	P	P		
1180	0.00	1.40	1.40		D	D	D			D	

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

Sale Name: Bell Ringer PR

CT5.32# - ROAD MAINTENANCE DEPOSIT SCHEDULE (08/2012)

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 are \$.39 per CCF for recurrent maintenance, and \$.39 per CCF for deferred maintenance.

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		

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 clefted vehicles will not be used for snow removal without prior written approval of Forest Service Representative.

Sale Name: Bell Ringer PR

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 & 007: Purchasers operations are restricted during the period of March 16 through July 31 (due to soils and/or protection of residual stems) AND September 1 through December 14 (due to soils).

Payment Units 003: Purchasers operations are restricted during the period of March 16 through July 14 (due to soils and/or protection of residual stems) AND October 1 through December 15 (due to soils).

Payment Units 004: Purchasers operations are restricted during the period of March 16 through December 14 (due to protection of residual stems).

Payment Unit 005 & 006: Purchasers operations are restricted during the period of March 16 through July 31 (due to soils and/or protection of residual stems) AND October 1 through December 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.

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.

Sale Name: Bell Ringer PR

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 - shown on Sale Area Map for All Payment Units 001 ? 008: Slash resulting from construction clearing (such as from landings, temporary roads, ROW clearing associated with pre-haul 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(2) - shown on Sale Area Map for Payment Units 001 ? 007: 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) delimb 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.

Logging slash and stumps used in the construction of road closure berms is excluded from the above SDZ, SDZ(2) requirements.

-

Sale Name: Bell Ringer PR

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.

**BELL RINGER TIMBER SALE
SPECIFIED ROAD SCHEDULE OF ITEMS**

Item Number	Item Description & Milepost	C or R ¹	Unit & M of M ²	Quantity	Road Std. (W,D,S) ³	Unit Allowance	Estimated Allowance
						DATE:	3/28/2016
	FR 888	R			D		
	MP 0.00 - 0.14						
249 02	Composite Road Construction. Reconstruct road by clearing/grubbing and shaping to crown or outslope to match typical drawings. Widen approach left and right. Restore roadside ditches left and right.		MI DQ	0.14		\$3,400	\$476
	M.P. 0.00						
203 01	Remove existing culvert		EA AQ	1		\$200	\$200
602 11	Furnish and install 15" x 40' CMP (16 gauge riveted) with 2' metal band.		LF DQ	40		\$19	\$760
301 13	Haul and place 60 CY (78 CY loose) unclassified sand fill (Bob Lake Pit) on approach/radii.		CY DQ	60		\$11	\$660
301 01	Furnish, haul, place 15 CY (19.5 CY loose) 22-A crushed gravel to surface approach/radii-4" depth.		CY DQ	15		\$30	\$450
	M.P. 0.01						
203 01	Remove existing private gate. Place roadside for removal by Special Use Permittee.		EA AQ	1		\$200	\$200
650 02	Furnish and install Forest Service gate including resting post to match typical drawings.		EA AQ	1		\$1,500	\$1,500
	M.P. 0.04						
249 03	Prepare culvert bed.		LS DSQ	1		\$150	\$150
602 74	Furnish and install 15" x 24' HDPE dual walled culvert with smooth interior to match typical drawing.		LF DQ	24		\$14	\$336
301 22	Furnish, haul, place 15 CY (19.5 CY loose) pit run over pipe for surfacing (60'L x 13.5'W x 6D").		CY DQ	15		\$26	\$390
	M.P. 0.09						
249 03	Construct 30' outlet ditch, right.		LS DSQ	1		\$30	\$30

¹C = Construction; R = Reconstruction²Method of Measure³W = Winter; D = Dry Summer; S = Summer

**BELL RINGER TIMBER SALE
SPECIFIED ROAD SCHEDULE OF ITEMS**

Item Number	Item Description & Milepost	C or R ¹	Unit & M of M ²	Quantity	Road Std. (W,D,S) ³	Unit Allowance	Estimated Allowance
FR 888, Continued							
	M.P. 0.10						
249 03	Prepare culvert bed.		LS DSQ	1		\$150	\$150
602 74	Furnish and install 15" x 24' HDPE dual walled culvert with smooth interior to match typical drawing.		LF DQ	24		\$14	\$336
249 03	Construct ditch block at inlet, left.		LS DSQ	1		\$75	\$75
301 22	Furnish, haul and place 15 CY (19.5 CY loose) pit run over pipe for surfacing (60' L x 13.5'W x 6"D).		CY DQ	15		\$26	\$390
	M.P. 0.11						
203 01	Remove existing culvert		EA AQ	1		\$200	\$200
301 22	Furnish, haul and place 30 CY (39 CY loose) pit run surfacing @ T-Turn intersection (6" deep).		CY DQ	30		\$26	\$780
FR 888 Total Specified Road Reconstruction							\$7,083
FR 1187							
	M.P. 0.00 - 0.29	R			D		
249 02	Composite Road Construction. Reconstruct road to dry summer standard. Clear, grub, shape to crown or outslope. Widen approach and establish ditches left and right to match typical drawings.		MI DQ	0.29		\$4,000	\$1,160
	M.P. 0.00						
301 01	Furnish, haul and place 15 CY (19.5 CY loose) 22-A crushed gravel for surfacing of approach/radii-4" depth.		CY DQ	15		\$30	\$450
	M.P. 0.09						
249 03	Construct 30' outlet ditch, right.		LS LSQ	1		\$30	\$30
249 03	Excavate 20 CY local borrow from left side of road at MP 0.10 and place at MP 0.085 - 0.095 to outslope, right.		LS LSQ	20		\$5	\$100
	M.P. 0.18						
249 03	Construct 30' outlet ditch, left.		LS LSQ	1		\$30	\$30
	M.P. 0.23						
249 03	Construct 30' outlet ditch, left.		LS LSQ	1		\$30	\$30

¹C = Construction; R = Reconstruction²Method of Measure³W = Winter; D = Dry Summer; S = Summer

**BELL RINGER TIMBER SALE
SPECIFIED ROAD SCHEDULE OF ITEMS**

Item Number	Item Description & Milepost	C or R ¹	Unit & M of M ²	Quantity	Road Std. (W,D,S) ³	Unit Allowance	Estimated Allowance
	FR 1187, continued						
	M.P. 0.25						
249 03	Prepare culvert bed.		EA AQ	1		\$150	\$150
602 74	Furnish and install 15" x 24' HDPE dual walled culvert with smooth interior to match typical detail.		LF DQ	24		\$14	\$336
301 22	Furnish, haul and place 24 CY (31 CY loose) pit run surfacing over culvert (75'L x 13'W x 8"D).		CY DQ	24		\$26	\$624
249 03	Improve outlet ditch, left 25'.		LS LSQ	1		\$25	\$25
	M.P. 0.29 - 0.83	R			W		
249 02	Composite Road Construction. Reconstruct road to a winter standard clearing/grubbing and shaping to crown or outslope. Restore ditches left and right as directed to match typical drawings. Includes realignment segments between MP's 0.29 - 0.38, and MP's 0.43 - 0.52.		MI DQ	0.54		\$6,000	\$3,240
	M.P. 0.40						
249 03	Construct 30' outlet ditch, left.		LS LSQ	1		\$30	\$30
	M.P. 0.56						
249 03	Construct 30' outlet ditch, right.		LS LSQ	1		\$30	\$30
	M.P. 0.57						
249 03	Prepare culvert bed.		EA AQ	1		\$150	\$150
602 74	Furnish and install 15" x 24' HDPE dual walled culvert with smooth interior to match typical drawing.		LF DQ	24		\$14	\$336
249 03	Improve outlet ditch - 25'.		LS LSQ	1		\$25	\$25
	M.P. 0.58						
249 03	Excavate 30 CY local borrow left & right and place in roadway at MP 0.56-0.58.		CY DQ	30		\$5	\$150

¹C = Construction; R = Reconstruction²Method of Measure³W = Winter; D = Dry Summer; S = Summer

**BELL RINGER TIMBER SALE
SPECIFIED ROAD SCHEDULE OF ITEMS**

Item Number	Item Description & Milepost	C or R ¹	Unit & M of M ²	Quantity	Road Std. (W,D,S) ³	Unit Allowance	Estimated Allowance
	FR 1187, continued						
	M.P. 0.62 - 0.63						
249 03	Construct 30' hard dip to match typical drawing.		LS LSQ	1		\$75	\$75
213 01	Furnish and place 30'L x 15'W (50 SY) 8oz Type-II nonwoven geotextile fabric as a separator below pit run.		SY DQ	50		\$3	\$150
301 22	Furnish, haul, and place 15 CY (19.5 CY loose) pit run surfacing (30'L x 13.5'W x 1'D).		CY DQ	15		\$26	\$390
	M.P. 0.67 - 0.68						
249 03	Construct 50' hard dip to match typical drawing.		LS LSQ	1		\$100	\$100
213 01	Furnish and install 50'L x 15'W (84 SY) 8oz Type-II nonwoven geotextile fabric as a separator below pit run.		SY DQ	84		\$3	\$252
301 22	Furnish, haul and place 24 CY (31 CY loose) pit run surfacing (50'L x 13'W x 1'D).		CY DQ	24		\$26	\$624
	M.P. 0.76						
249 03	Prepare culvert bed.		Each	1		\$150	\$150
602 74	Furnish and install 36" x 30' HDPE dual walled culvert with smooth interior to match typical drawing.		LF DQ	30		\$48	\$1,440
249 03	Excavate 50 CY local borrow from MP 0.77, left, and place over culvert to match typical drawing.		LS LSQ	50		\$5	\$250
301 22	Furnish, haul and place 24 CY (31 CY loose) pit run surfacing (50'L x 13'W x 1'D deep).		CY DQ	24		\$26	\$624

¹C = Construction; R = Reconstruction²Method of Measure³W = Winter; D = Dry Summer; S = Summer

**BELL RINGER TIMBER SALE
SPECIFIED ROAD SCHEDULE OF ITEMS**

Item Number	Item Description & Milepost	C or R ¹	Unit & M of M ²	Quantity	Road Std. (W,D,S) ³	Unit Allowance	Estimated Allowance
FR 1187, Continued							
M.P. 0.78 - 0.79							
249 03	Construct 30' hard dip to match typical drawing.		LS LSQ	1		\$75	\$75
213 01	Furnish and install 30'L x 15'W (50 SY) 8 oz Type-II nonwoven geotextile fabric as a separator below pit run.		SY DQ	50		\$3	\$150
301 22	Furnish, haul and place 15 cy (19.5 cy loose) pit run surfacing (30'L x 13.5'W x 1'D deep).		CY DQ	15		\$26	\$390
249 03	Construct 25' outlet ditch, left at MP 0.785.		LS LSQ	1		\$25	\$25
FR 1187 Total Specified Road Reconstruction							\$11,591

FR 1187-C							
M.P. 0.00 - 0.37							
		R			D		
249 02	Composite Road Construction. Reconstruct road by clearing/grubbing and shaping to crown or outslope to match typical drawings. Restore roadside ditches left and right as directed by Forest Service.		MI DQ	0.37		\$4,000	\$1,480
M.P. 0.10							
249 03	Construct 30' outlet ditch, left.		LS LSQ	1		\$30	\$30
FR 1187-C Total Specified Road Reconstruction							\$1,510

FR 1187-E							
M.P. 0.00 - 0.16							
		C			W		
249 02	Composite Road Construction. Construct road to winter standard by clearing/grubbing and shaping to crown or outslope to match typical drawings. Establish roadside ditches, left and right.		MI DQ	0.16		\$6,000	\$960
FR 1187-E Total Specified Road Reconstruction							\$960
Grand Total Bell Ringer Specified Road Work							\$21,144

¹C = Construction; R = Reconstruction²Method of Measure³W = Winter; D = Dry Summer; S = Summer

BELL RINGER TIMBER SALE

SPECIFIED ROAD 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:** Additional outlet or lead out ditches may be required at road segment locations to allow for proper drainage needs. Locations for placement shall be determined by the Forest Service and are included in appraised allowance for clearing and shaping.
- NOTE:** There may be underground utility lines in unknown locations on this project. **CALL MISS DIG three (3) full working days before any work begins. 1-800-482-7171.**
- NOTE:** During clear and grub operations, **all slash** resulting from purchasers operations shall be treated as per **CT 6.7#**.
- NOTE:** All finished roadbeds shall be 12' as shown in the typical details for crowned roads with no ditches, 1' ditches and out sloped roads.
- NOTE:** All HDPE culverts shall be dual walled with a smooth lined interior, and have a minimum of 18" compacted material over the top of the culvert.
- NOTE:** Purchaser furnished Corrugated Metal Pipes shall be riveted 16 gauge galvanized metal and require a 2' wide connector band and bolts.
- NOTE:** In the narrative, compacted and loose volumes are noted with loose volumes in parentheses.
- NOTE:** Geotextile shall be placed as a permeable separator as noted on Schedule of Items. Purchaser provided **Geotextile Type II separation material must be equivalent to or greater than US 205 nonwoven 8 oz fabric.** Segments totaling 110'L x 15'W (184 SY) are required on FR 1187.
- NOTE:** There are **30 CY of crushed aggregate surfacing to be furnished and placed** on specified roads. This volume plus the normal compaction factor of 130% computes to a loose volume of 39 CY. **There is no government source available for this project.** Purchaser furnished material shall meet gradation requirements for the Michigan Department of State Highway Transportation-Designation 22-A.

- NOTE:** There are **162 CY of pit run road surfacing to be furnished, hauled, and placed** on specified roads. This volume plus the normal compaction factor of 130% computes to a loose volume of 211 CY. **There is no government source available for this project.** Material shall be 100% smaller than 6" diameter and at least 50% larger than 3" diameter. *Material must be approved by the Forest Service.*
- NOTE:** There is **60 CY of unclassified sand/backfill material** required for specified reconstruction work on the timber sale. This volume plus the normal compaction factor of 130% computes to a loose volume of 78 CY. This material shall be taken from the **Bob Lake Pit**, located at T49N, R37W, Sections 9 & 10 on FR 1470, unless agreed otherwise. *Some pit development may be required and is considered incidental to associated items.*
- NOTE:** Safety signs shall be placed as directed by the Forest Service when hauling and placing gravel or unclassified sand backfill material on the sale area. See Sale Area Map for specific sign locations and Traffic Control Plan for sign size and type. *Signs shall be in place prior to hauling.*
- NOTE:** The Purchaser must furnish and install a gate near the entrance of FR 888. Construction of this gate and installation requirements is included in the typical drawings furnished by the Forest Service. **Gate must be painted brown** as stated on the typical drawing. *Reflective signs for the gate will be provided by the Forest Service.* **Sign installation, fastening hardware, resting post, and concrete product shall be provided by the purchaser.**

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

Specification List

Project Name: BELL RINGER TIMBER SALE

Date Prepared: 3/28/2016

Road Number		FR 888 FR 1187	Termini.....	FR 888	FR 1187	
Road Name			Construction Reconstruction	0.14	0.83	
Spec. No.	Title					Latest Revised Edition
101 thru 109	General Requirements		X	X		2003
203	Removal of Structures and Obstructions		X			2003
213	Subgrade Stabilization			X		2003
301	Untreated Aggregate Course		X	X		2003
602	Culverts and Drains		X	X		2003
650	Road Closure Devices		X			2003

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

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

Specification List

Project Name: BELL RINGER TIMBER SALE

Date Prepared: 03/28/16

Road Number		FR 1187-C FR 1187-E		FR 1187-C	FR 1187-E	
Road Name			Termini.....			
			Construction Reconstruction	0.37	0.16	
Spec. No.	Title					Latest Revised Edition
101 thru 109	General Requirements			X	X	2003

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

BELL RINGER TIMBER SALE

SUPPLEMENTAL SPECIFICATIONS

Section 101-109	General Requirements
Section 203	Removal of Structures and Obstructions
Section 213	Subgrade Stabilization
Section 249	Composite Road Construction
Section 301	Untreated Aggregate Course
Section 602	Culverts and Drains

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.

101 - Terms, Format, and Definitions

101.01 Meaning of Terms

Delete all references to the TAR (Transportation Acquisition Regulations) in the specifications.

101.01 Meaning of Terms

Delete all references to the FAR (Federal Acquisition Regulations) in the specifications.

101.03 Abbreviations.

Add the following to (a) Acronyms:

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

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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.

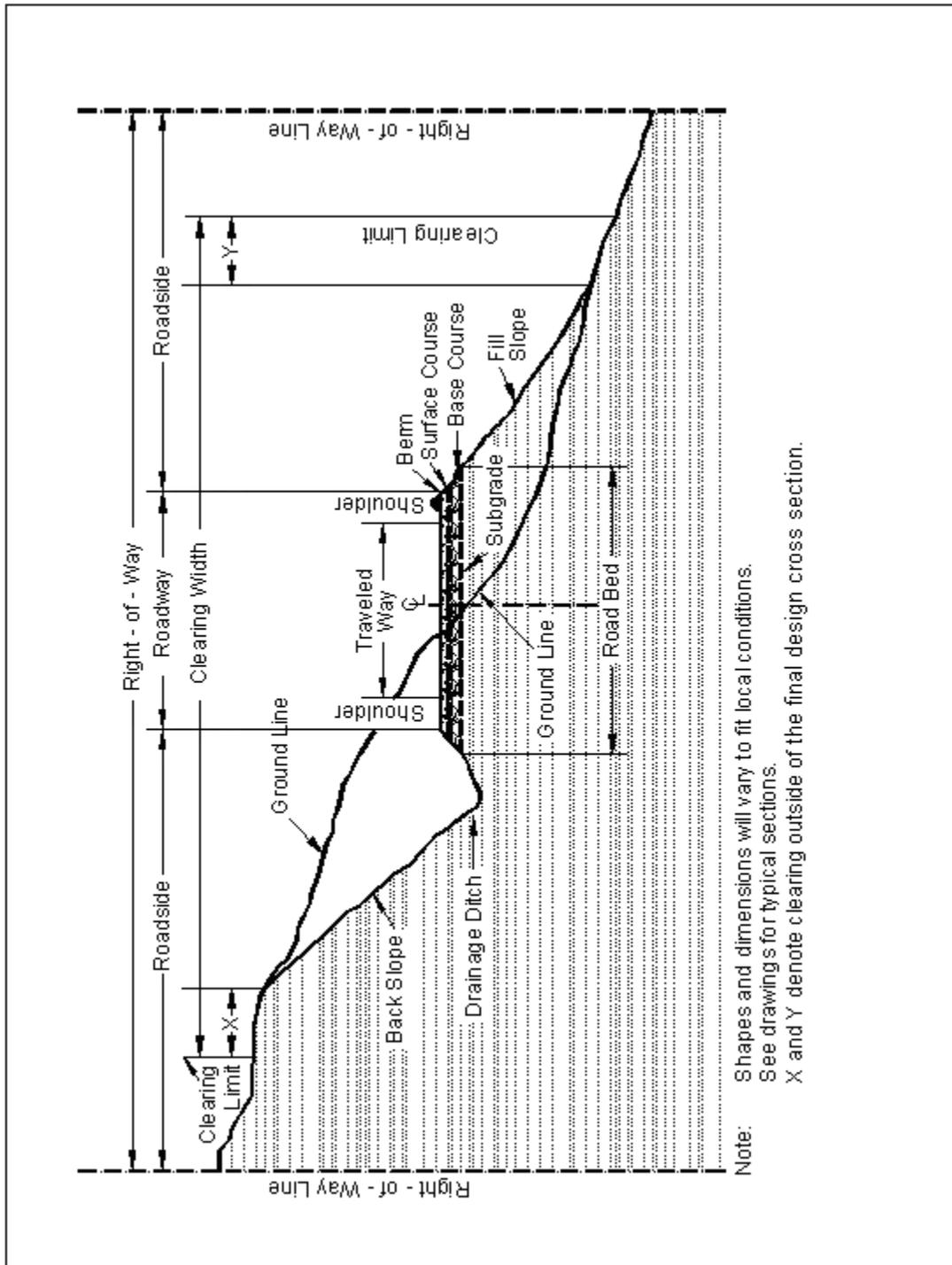
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

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.



101.04 Definitions.

Delete the following definitions:

Contract Modification

Day

Notice to Proceed

Solicitation

102 - Bid, Award, and Execution of Contract

102 Bid, Award, and Execution of Contract

Delete Section 102 in its entirety.

103 - Scope of Work

Deletions

Delete all but subsection 103.01 Intent of Contract.

104 - Control of Work

Deletions

Delete Sections 104.01, 104.02, and 104.04.

104.03 Drawings and Specifications

Delete subsection 104.03

Delete 104.03.

104.06 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.

Add Subsection.

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 Sand Fill source for this project is identified as follows:

Bob Lake Pit, FR 1470, T47N, R35W, Sections 10 and 11.

There is no charge for material taken from these pits for use on this project.

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.

106 - Acceptance of Work

106.01 Conformity with Contract Requirements.

Delete Subsection 106.01 and substitute the following:

References to standard test methods of AASHTO, ASTM, GSA, and other recognized standard authorities refer to the methods in effect on the date of solicitation for bids.

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

Incorporate manufactured materials into the work according to the manufacturer's recommendations or to these specifications, whichever is more strict.

Plan dimensions and contract specification values are the values to be strived for and complied with as the design values from which any deviations are allowed. Perform work and provide material that is uniform in character and reasonably close to the prescribed value or within the specified tolerance range. The purpose of a tolerance range is to accommodate occasional minor variations from the median zone that are unavoidable for practical reasons.

When standard manufactured items are specified (such as fence, wire, plates, rolled shapes, pipe conduits, etc., that are identified by gauge, unit mass, section dimensions, etc.), the identification will be considered to be nominal masses or dimensions. Unless specific contract tolerances are noted, established manufacturing tolerances will be accepted.

The Government may inspect, sample, or test all work at any time before final acceptance of the project. When the Government tests work, copies of test reports are furnished to the Contractor upon request. Government tests may or may not be performed at the work site. If Contractor testing and inspection is verified by the Government, the Contractor's results may be used by the Government to evaluate work for acceptance. Do not rely on the availability of Government test results for process control.

Acceptable work conforming to the contract will be paid for at the contract unit bid price. Four methods of determining conformity and accepting work are described in Subsections 106.02 to 106.05 inclusive. The primary method of acceptance is specified in each Section of work. However, work may be rejected at any time it is found by any of the methods not to comply with 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.

(a) Disputing Government test results. **If the accuracy of Government test results is disputed, promptly inform the CO. If the dispute is unresolved after reasonable steps are taken to resolve the dispute, further evaluation may be obtained by written request. Include a narrative describing the dispute and a proposed resolution protocol that addresses the following:**

- (1) Sampling method;
- (2) Number of samples;
- (3) Sample transport;
- (4) Test procedures;
- (5) Testing laboratories;
- (6) Reporting;
- (7) Estimated time and costs; and
- (8) Validation process.

If the evaluation requires additional sampling or testing be performed, mutually agree with the Government on witnessing procedures and on sampling and testing by a third party laboratory. Use a third party laboratory accredited by the AASHTO accreditation program. Provide proof of the laboratory's accreditation for the test procedures to be used. Do not use the same laboratory that produced the disputed Government test results or that produced the test results used as a basis for the dispute.

The CO will review the proposed resolution protocol and may modify it before final approval and execution.

The Government will use the approved resolution protocol test results to determine the validity of the disputed testing. If the Government test results are validated, the Contractor will be responsible for all costs associated with developing and performing the resolution protocol. If the Government test results are not validated, the Government will be responsible for all costs associated with developing and performing the resolution protocol. If the validity of the Government test results cannot be determined, the Contractor and Government will equally share all costs associated with developing and carrying out the resolution protocol.

(b) Alternatives to removing and replacing non-conforming work. As an alternative to removal and replacement, the Contractor may submit a written request to:

- (1) Have the work accepted at a reduced price; or
- (2) Be given permission to perform corrective measures to bring the work into conformity.

The request must contain supporting rationale and documentation. Include references or data justifying the proposal based on an evaluation of test results, effect on service life, value of material or work, quality, aesthetics, and other tangible engineering basis. The CO will determine disposition of the nonconforming work.

106.07 Delete

Delete subsection 106.07.

107 - Legal Relations and Responsibility to the Public

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.06 Contractor's Responsibility for Work.

Delete the following from the first paragraph.

“except as provided in Subsection 106.07”.

107.08 Sanitation, Health, and Safety

Delete the entire subsection.

107 - Legal Relations and Responsibility To the Public

107.08 Sanitation, Health, and Safety.

Add the following:

Perform all operations in a prudent, conscientious, safe and professional manner. Ensure that all personnel involved in handling and packaging the hazardous waste are trained for the level of expertise required for the proper performance of the task and, in particular, in the areas of chemical incompatibility, general first aid procedures, and spills. Provide handling and personal protective equipment appropriate to ensure safe handling of the hazardous waste according to 29 CFR 1910.120). Notify the Forest Service of all hazardous material that may be brought onto the National Forest.

107 - Legal Relations and Responsibility to the Public

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

107.10 Environmental Protection.

Add the following:

Design and locate equipment repair shops, stationary refueling sites, or other facilities to minimize the potential and impacts of hazardous material spills on Government land.

Before beginning any work, submit a Hazardous Spill Plan. List actions to be taken in the event of a spill. Incorporate preventive measures to be taken, such as the location of mobile refueling facilities, storage and handling of hazardous materials, and similar information. Immediately notify the CO of all hazardous material spills. Provide a written narrative report form no later than 24 hours after the initial report and include the following:

- Description of the item spilled (including identity, quantity, manifest number, and other identifying information).
- Whether amount spilled is EPA or state reportable, and if so whether it was reported, and to whom.
- Exact time and location of spill including a description of the area involved.
- Containment procedures.

- Summary of any communications the Contractor had with news media, Federal, state and local regulatory agencies and officials, or Forest Service officials.
- Description of clean-up procedures employed or to be employed at the site including final disposition and disposal location of spill residue.

When available provide copies of all spill related clean up and closure documentation and correspondence from regulatory agencies.

The Contractor is solely responsible for all spills or leaks that occur during the performance of this contract. Clean up spills or leaks to the satisfaction of the CO and in a manner that complies with Federal, state, and local laws and regulations.

108 - Prosecution and Progress

108 Delete.

Delete Section 108 in its entirety.

109 - Measurement and Payment

109 Deletions

Delete the following entire subsections:

109.06 Pricing of Adjustments.

109.07 Eliminated Work.

109.08 Progress Payments.

109.09 Final Payment.

109.02 Measurement Terms and Definitions.

(b) Contract quantity.

Add the following:

Contract quantities will be adjusted only when there are errors in the original design of 15% or more.

Change the following:

“(b) Cubic yard” to “(c) Cubic yard”.

Add the following definition:

(p) Thousand Board Feet (Mbf). 1,000 board feet based on nominal widths, thickness, and extreme usable length of each piece of lumber or timber actually incorporated in the job. For glued laminated timber, 1,000 board feet based on actual width, thickness, and length of each piece actually incorporated in the job.

203 - Removal of Structures and Obstructions

203.01 Description.

Delete and replace with the following:

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

203.02 Material.

Add the following:

Geotextile

203.04 Removing Material.

Replace the fourth and fifth paragraphs with the following:

Where part of an existing culvert is removed, remove the entire culvert upstream from the removal. The remaining downstream culvert may be left in place if no portion of the culvert is within 12 inches of the subgrade, embankment slope, or new culvert or structure; and the culvert ends are sealed with concrete.

Remove structures and obstructions in the roadbed to 12 inches below subgrade elevation.

Remove structures and obstructions outside the roadbed to 12 inches below finished ground or to the natural stream bottom.

203.05 Disposing of Material.

Add the following:

(e): Scattering. Scatter pieces of wood less than 3 inches in diameter and 3 feet in length within the clearing limits. Do not place construction slash in lakes, meadows, streams, or streambeds. Immediately remove construction slash that interferes with drainage structures.

203.05 Disposing of Material.

(b) Burn.

Delete the last sentence and add the following:

Deposit construction slash so that burning does not damage standing trees. Dispose of unburned material as directed by the CO.

203.05 Disposing of Material.

Add the following:

(e) Windrowing Construction Slash. Place construction slash outside the roadway in neat, compacted windrows approximately parallel to and along the toeline of embankment slopes. Do not permit the top of the windrows to extend above subgrade. Use construction equipment to matt down all material in a windrow to form a compact and uniform pile. Construct breaks of at least 15 feet at least every 200 feet in a windrow. Do not place windrows against trees. Obtain approval for pioneer roads. A pioneer road may be constructed to provide an area for placement of windrows, provided the excavated material is kept within the clearing limits and does not adversely affect the road construction.

(f) Scattering. Scatter construction slash outside the clearing limits without damaging trees. Limb all logs. Place logs and stumps away from trees, positioned so they will not roll, and are not on top of one another. Limb and scatter other construction slash to reduce slash concentrations.

(g) Chipping or Grinding. Use an approved chipping machine to grind slash and stumps greater than 3 inches in diameter and longer than 3 feet. Deposit chips or ground woody material on embankment slopes or outside the roadway to a loose depth less than 6 inches. Minor amounts of chips or ground woody material may be permitted within the roadway if they are thoroughly mixed with soil and do not form a layer.

(h) Debris Mat. Use tree limbs, tops, cull logs, split stumps, wood chunks, and other debris to form a mat upon which construction equipment is operated. Place stumps upside down and blend stumps into the mat.

(i) Decking Firewood Material. Remove brush from decks. Limb and deck logs that do not meet Utilization Standards according to Subsection 201.04 as directed by the CO. Cut logs to lengths less than 30 feet. Ensure that logs stacks are stable and free of brush and soil.

(j) Removal to designated locations. Remove construction slash to designated locations.

(k) Piling. Pile construction slash in designated areas. Place and construct piles so that if the piles are burned, the burning will not damage remaining trees. Keep piles free of dirt from stumps. Cut unmerchantable logs into lengths of less than 20 feet.

(l) Placing Slash on Embankment Slopes. Place construction slash on completed embankment slopes to reduce soil erosion. Place construction slash as flat as practicable on the completed slope. Do not place slash closer than 2 feet below subgrade. Priority for use of available slash is for: (1) through fills; (2) insides of curves; and (3) ditch relief outlets.

(m) Hydrological Sensitive Placement. Where required use this method in combination with other designated methods to dispose of material to reduce erosion and to aid in re-vegetation:

1. Place windrow segments on contours, wrap in type I geotextile.
2. Place logs as log erosion barriers on contours. Place logs so that 80% of their length is on the ground surface.

3. Scatter slash on bare or disturbed areas within or outside the clearing limits as directed.
4. Scatter chips or ground woody material on bare or disturbed areas within or outside the clearing limits as directed.

Place stumps in swales or on sites to form planting pockets. Place windrow segments on contours, wrap in type I geotextile.

203.08 Payment

Add the following:

Disposal of construction slash will be compensated under the designated pay item in Section 201.

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. Deposit 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

301 - Untreated Aggregate Courses**301 Title Change.**

Change the title to: **Section 301 Aggregate Courses**

301.01 Work.

Add the following:

Work includes producing aggregate by pit-run, grid rolling, screening, or crushing methods, or placing Government-furnished aggregate. Work may include additive mineral filler, or binder.

301.02 Material.

Add the following:

Bentonite	725.30
Calcium Chloride Flake	725.02
Lignon Sulfonate	725.20
Magnesium Chloride Brine or Calcium Chloride Liquid	725.02

301.03 General.

Add the following:

Written approval of the roadbed is required before placing aggregate.

For pit run or grid-rolled material, furnish material smaller than the maximum size. No gradation other than maximum size will be required for pit-run or grid-rolled material. For grid rolling, use all suitable material that can be reduced to maximum size. After processing on the road, remove all oversize material from the road and dispose of it as directed by the CO.

Provide additives or binder, if required, at the proportions specified.

Develop and use Government furnished sources according to Section 105.

If the aggregate is produced and stockpiled before placement, handle and stockpiled according to Section 320. Establish stockpile sites at locations approved. Clear and grub stockpile sites according to Section 201.

301.04 Mixing and Spreading.

Delete the first sentence of the first paragraph and add the following:

Ensure that aggregate and any required additives, water, mineral filler, and binder are mixed by the specified method except, if crushed aggregate products are being produced and mineral filler, binder, or additives are required, uniformly blend following crushing. Control additive proportions to 0.5 percent dry weight.

(a) Stationary Plant Method. Mix the aggregate with other required materials in an approved mixer. Add water during the mixing operation in the amount necessary to provide the moisture content for compacting to the specified density. After mixing, transport the aggregate to the jobsite while it contains the proper moisture content, and place it on the roadbed or base course using an aggregate spreader.

(b) Travel Plant Method. After placing the aggregate for each layer with an aggregate spreader or windrow-sizing device, uniformly mix it with other required materials using a traveling mixing plant. During mixing, add water to provide the necessary moisture content for compacting.

(c) Road Mix Method. After placing the aggregate for each layer, mix it with other required materials at the required moisture content until the mixture is uniform throughout. Mix aggregate, water, and all other materials until a uniform distribution is obtained.

Spread the aggregate in a uniform layer, with no segregation of size, and to a loose depth that will provide the required compacted thickness.

When placing aggregate over geotextile, place aggregate in a single lift to the full depth specified.

Route and distribute hauling and leveling equipment over the width and length of each layer.

301.05 Compacting

Delete and replace with the following:

Compact each layer full width. Roll from the sides to the center, parallel to the centerline of the road. Along curbs, headers, walls, and all places not accessible to the roller, compact the material with approved tampers or compactors.

Compact the aggregate using one of the following methods as specified:

Compaction A. Operating spreading and hauling equipment over the full width of the travelway.

Compaction B. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction C. Moisten or dry the aggregate to a uniform moisture content between 5 and 7 percent based on total dry weight of the mixture. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction D. Compact to a density of at least 95 percent of the maximum density, as determined by AASHTO T 99, method C or D.

Compaction E. Compact to a density of at least 96 percent of the maximum density, as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

Compaction F. Compact to a density of at least 95 per-cent of the maximum density, as determined by AASHTO T 180, method C or D.

Compaction G. Compact to a density of at least 100 percent of the maximum density as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

For all compaction methods, blade the surface of each layer during the compaction operations to remove irregularities and produce a smooth, even surface. When a density requirement is specified, determine the in place density and moisture content according to AASHTO T 310 or other approved test procedures.

301.05 Compacting

Delete and replace with the following:

Compact each layer full width. Roll from the sides to the center, parallel to the centerline of the road. Along curbs, headers, walls, and all places not accessible to the roller, compact the material with approved tampers or compactors.

Compact the aggregate using one of the following methods as specified:

Compaction A. Operate spreading and hauling equipment over the full width of the travelway.

Compaction B. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction C. Moisten or dry the aggregate to a uniform moisture content between 5 and 7 percent based on total dry weight of the mixture. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction D. Compact to a density of at least 95 percent of the maximum density, as determined by AASHTO T 99, method C or D.

Compaction E. Removed.

Compaction F. Compact to a density of at least 95 per-cent of the maximum density, as determined by AASHTO T 180, method C or D.

Compaction G. Removed.

For all compaction methods, blade the surface of each layer during the compaction operations to remove irregularities and produce a smooth, even surface. When a density requirement is specified, determine the in place density and moisture content according to AASHTO T 310 or other approved test procedures.

301.06 Surface Tolerance.

Add the following:

Thickness and Width requirements:

The maximum variation from the compacted specified thickness is $\frac{1}{2}$ inch. The compacted thickness is not consistently above or below the specified thickness and the average thickness of 4 random measurements for any $\frac{1}{2}$ mile of road segment is within $+\frac{1}{4}$ inch of the specified thickness.

The maximum variation from the specified width will not exceed +12 inches at any point. The compacted width is not consistently above the specified width and the average of any four random measurements along any $\frac{1}{2}$ mile of road segment is within +4 inches of the specified width.

Table 301-1: Add the following:

Table 301-1—Acceptance Sampling and Testing Requirements.

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Subbase & Base Courses L, M, N, O, P, Q, R	Measured and tested conformance (Subsection 106.04)	Plastic Limit	-	AASHTO T 90	1 per each 1,000 T	From the windrow or roadbed after processing	Yes	4 Hours

Table 301-1—Acceptance Sampling and Testing Requirements.

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Aggregate Width	Measured and tested conformance (Subsection 106.04)	Width	-	-	4 per each 0.5 mi	Roadbed after processing	-	4 Hours
Aggregate Thickness	Measured and tested conformance (Subsection 106.04)	Thickness	-	-	4 per each 0.5 mi	Roadbed after processing	-	4 Hours
Additive	Measured and tested conformance (Subsection 106.04)	Amount of Additive	-	-	1 per each 1,000 T	From the windrow or roadbed after processing	No	4 Hours

Table 301-1 Field Density Requirements.

Table 301-1: Delete laboratory and field density requirements for base, subbase, and surfacing and replace with the following:

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
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Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Base and Subbase	Measured and tested conformance (Subsection 106.04)	Moisture Density	---					
		Method C	---	AASHTO T 99	1 per type and source of material	Source of material	Yes	Before using in work
			---		“	“	“	“
		Method D	---	AASHTO T 180	“	“	“	“
			---		“	“	“	“
		Compaction	---					
		Method C, D	---	AASHTO T 310 or other approved procedures	1 per 500 t	In-place	---	Before placing the next layer
Surfacing	Measured and tested conformance (Subsection 106.04)	Moisture Density						
			---		“	“	“	Before using in work
		Method D	---	AASHTO T 180	“	“	“	“
			---		“	“	“	“
		Compaction						
		Method C, D	---	AASHTO T 310 or other approved procedures	1 per 500 t	In-place	---	Before placing the next layer

301.08(b) Plasticity Index.

Add the following to the first sentence:

“and under 703.05(c)(1)”.

301.09 Measurement.

Replace the second paragraph with the following:

Measure aggregate by cubic yard compacted in place when payment is by contract quantities.

301.10 Payment

Delete the following:

adjusted according to Subsection 106.05

602 - Culverts and Drains

602.03 General.

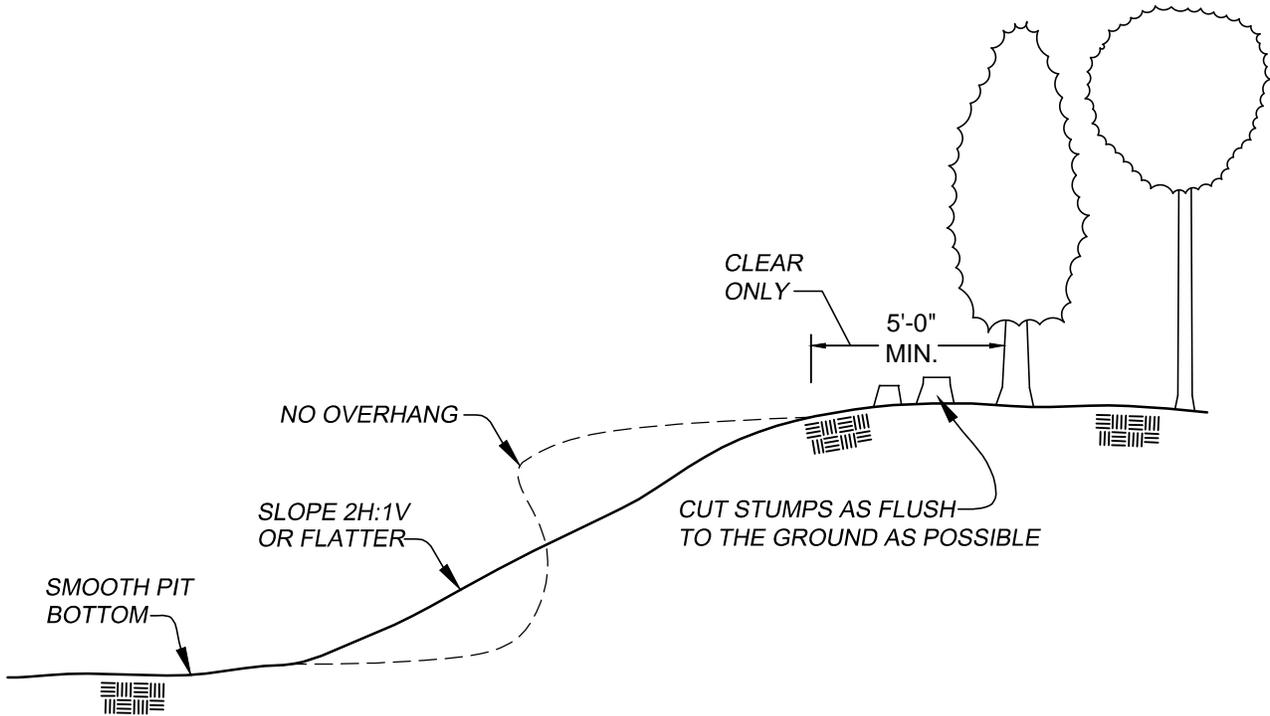
Add the following:

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 feet, whichever is less.

602.06 Laying Plastic Pipe.

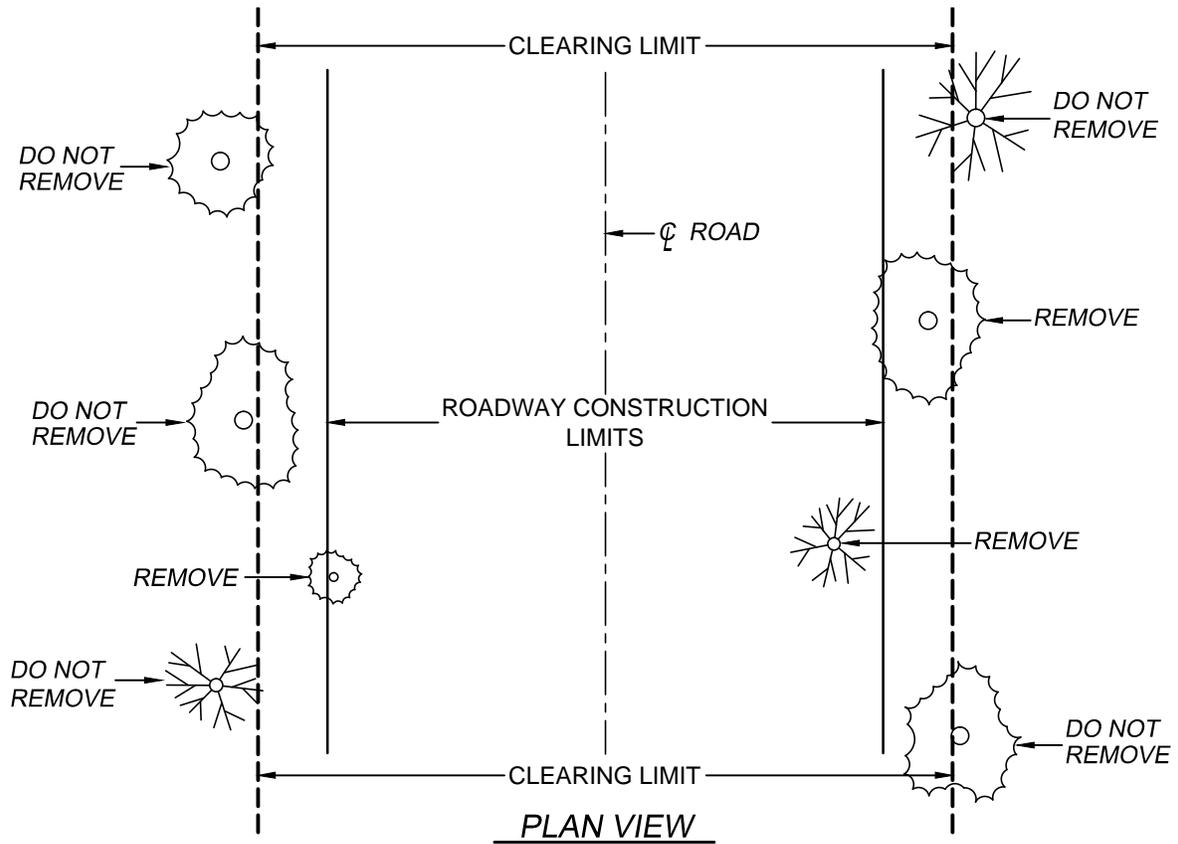
Delete the second paragraph and substitute the following:

Provide soil-tight bell and spigot joints for plastic pipe culverts.



NOTE: TOPS, STUMPS AND TRUNKS SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER. STUMPS SHALL BE SEVERED FROM ALL TREES. ALL TIMBER SHALL REMAIN PROPERTY OF THE GOVERNMENT. OVERSIZED ROCK SHALL BE DISPOSED OF IN EXISTING PILES OR AS DIRECTED BY THE ENGINEER. 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.

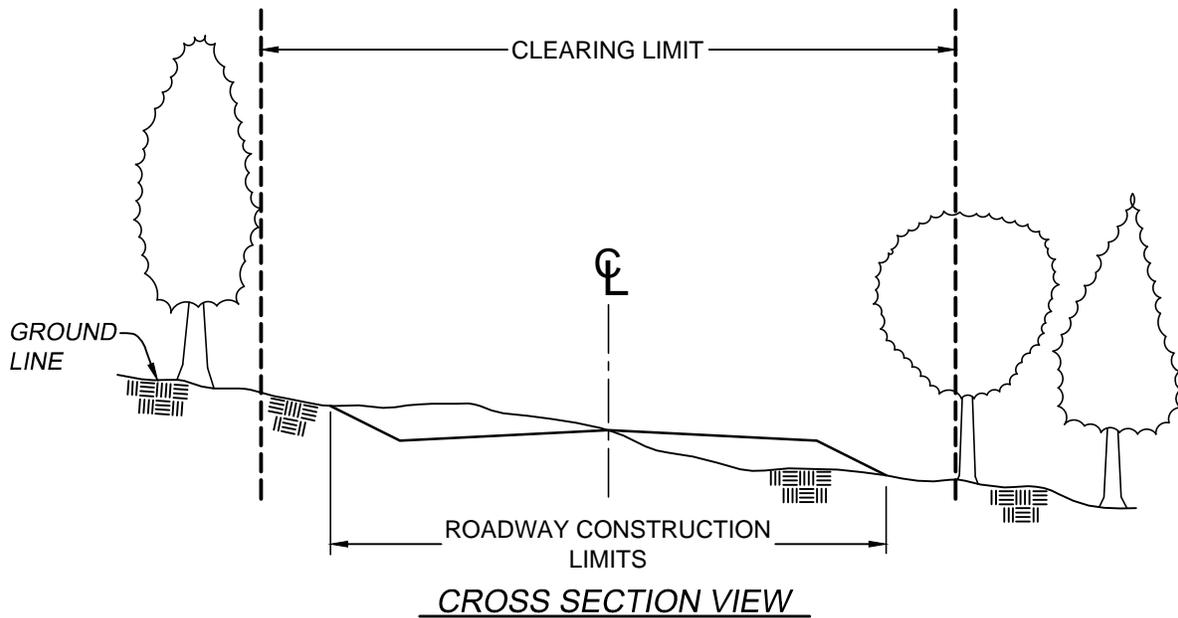
BORROW PIT CLEAN UP



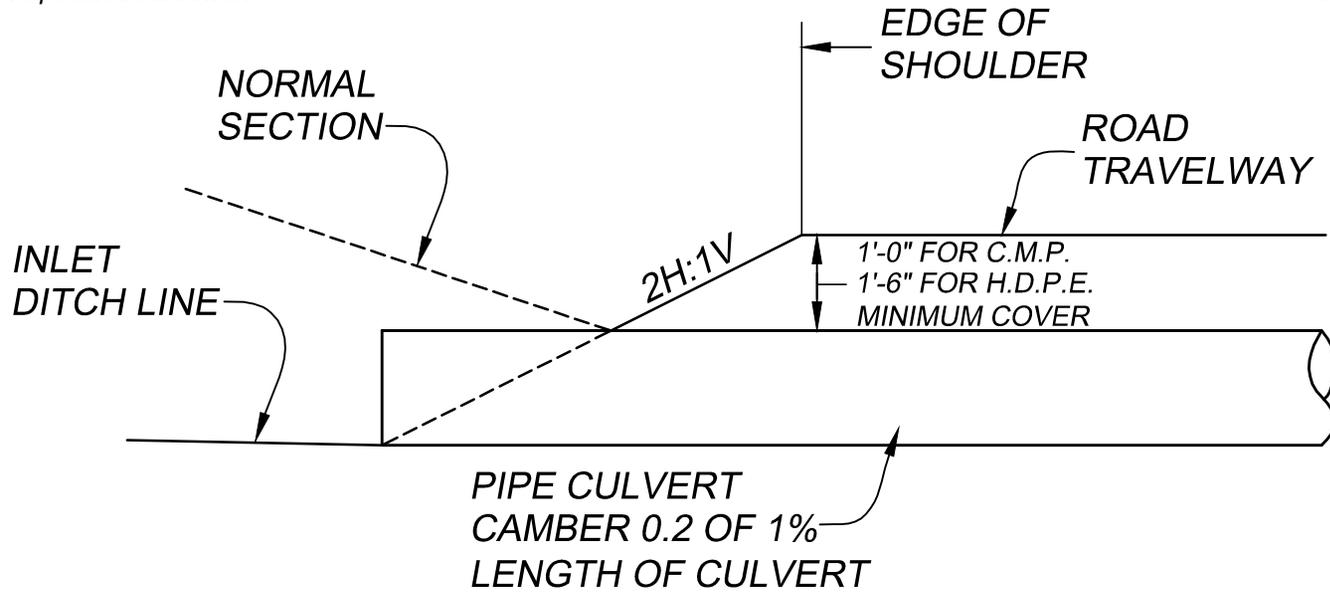
NOTE: TREES ON THE CLEARING LIMIT LINE ARE TO REMAIN UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

NOTE: BLUE FLAGGING INDICATES CLEARING LIMITS. (DO NOT REMOVE TREES WITH BLUE FLAGGING)

NOTE: YELLOW PAINT INDICATES TREES TO BE REMOVED.

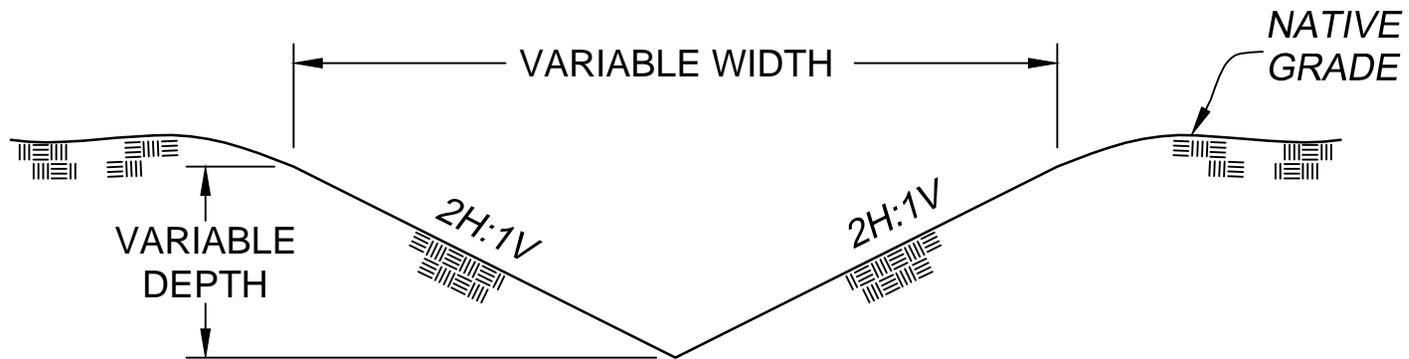


CONSTRUCTION STAKING
NOT TO SCALE



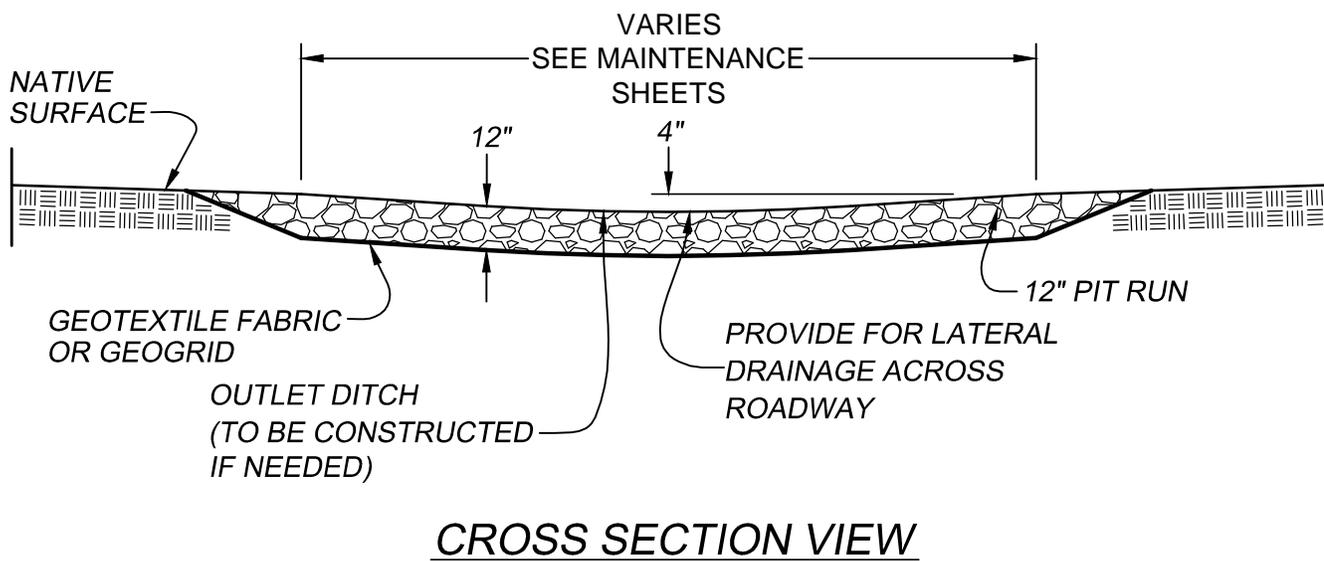
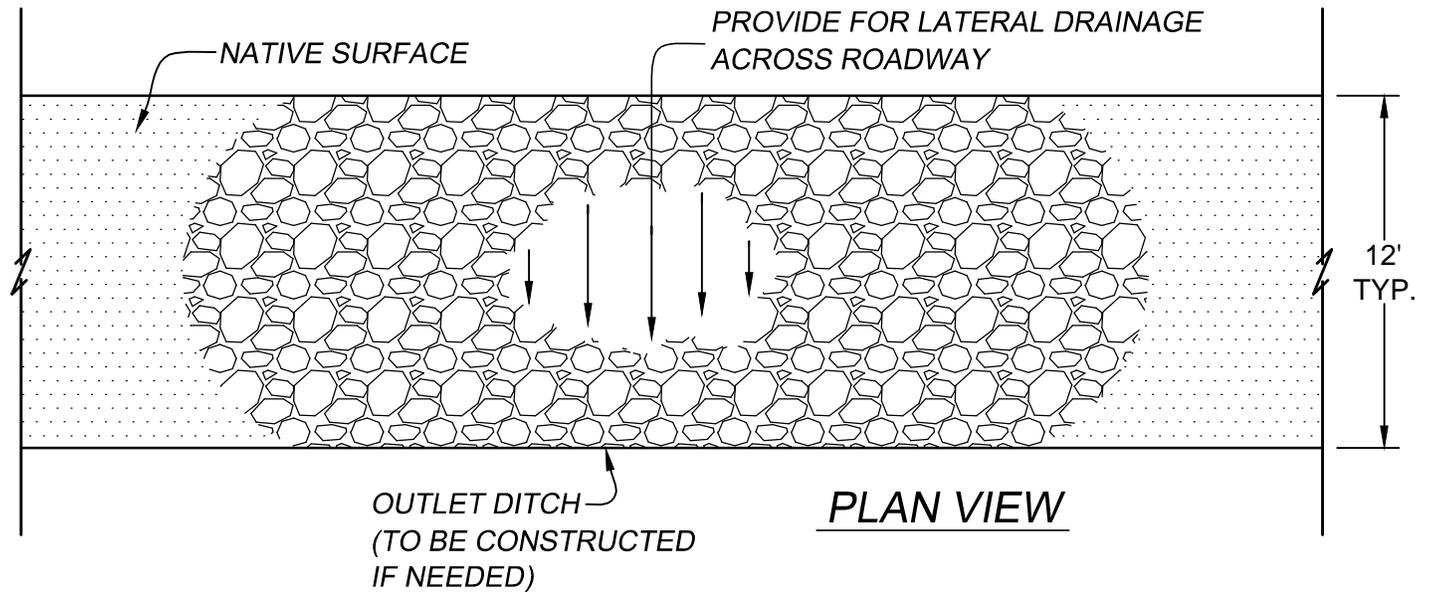
TYPICAL DITCH SECTION AT CULVERT INLET

NOT TO SCALE



TYPICAL INLET AND OUTLET DITCH SECTION

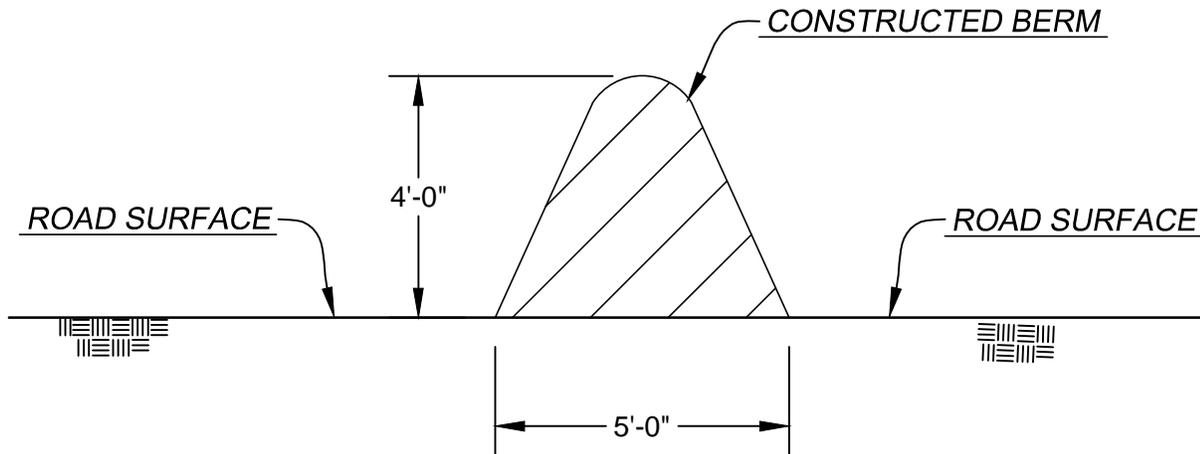
NOT TO SCALE



NOTE:
 HARDENED DIPS WILL BE EXCAVATED 16" DEEP
 AND BACKFILLED WITH 12" OF PIT RUN. GEOTEXTILE
 OR GEOGRID SHALL BE PLACED UNDER PIT RUN
 MATERIAL AS DIRECTED BY THE FOREST SERVICE.

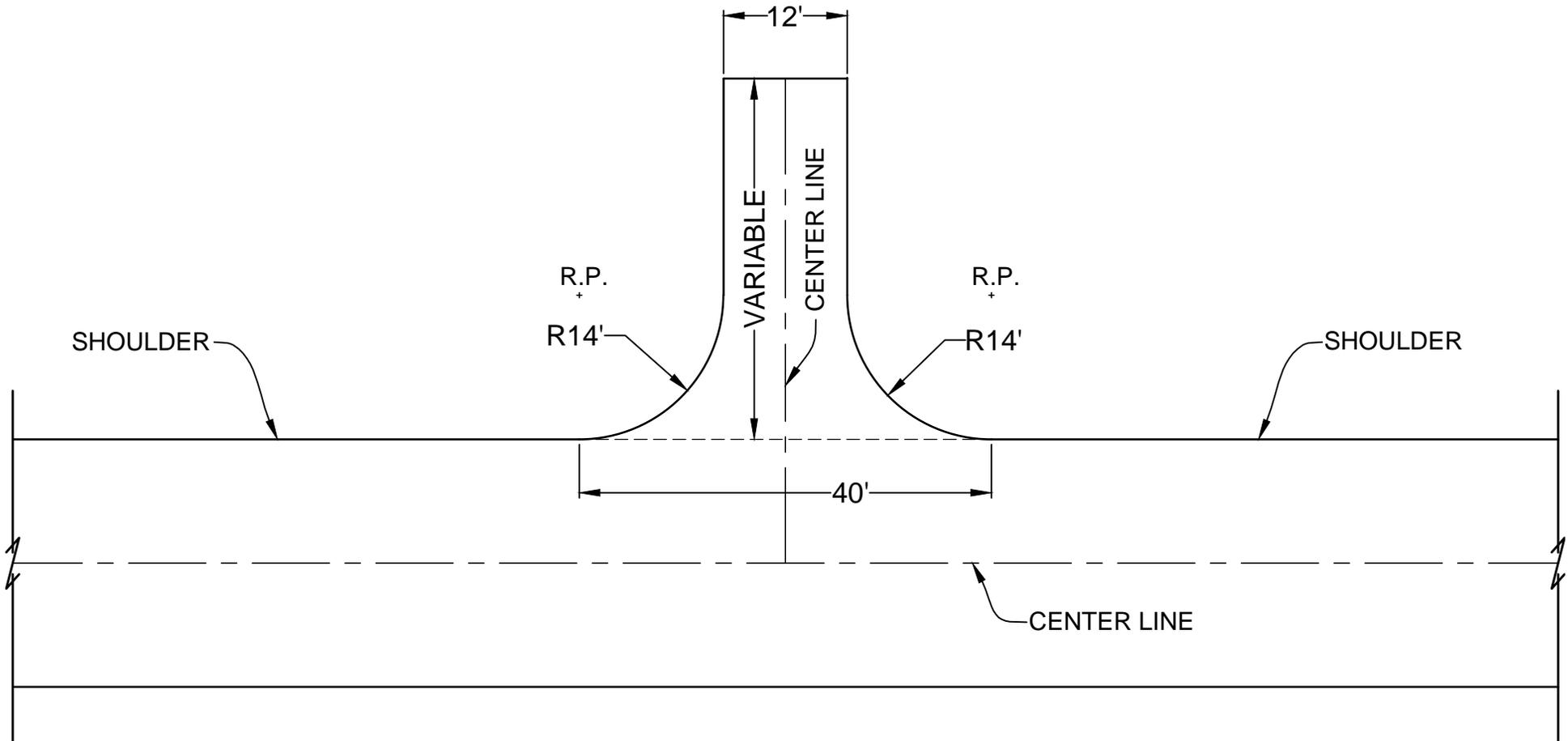
TYPICAL HARDENED DIP

NOT TO SCALE

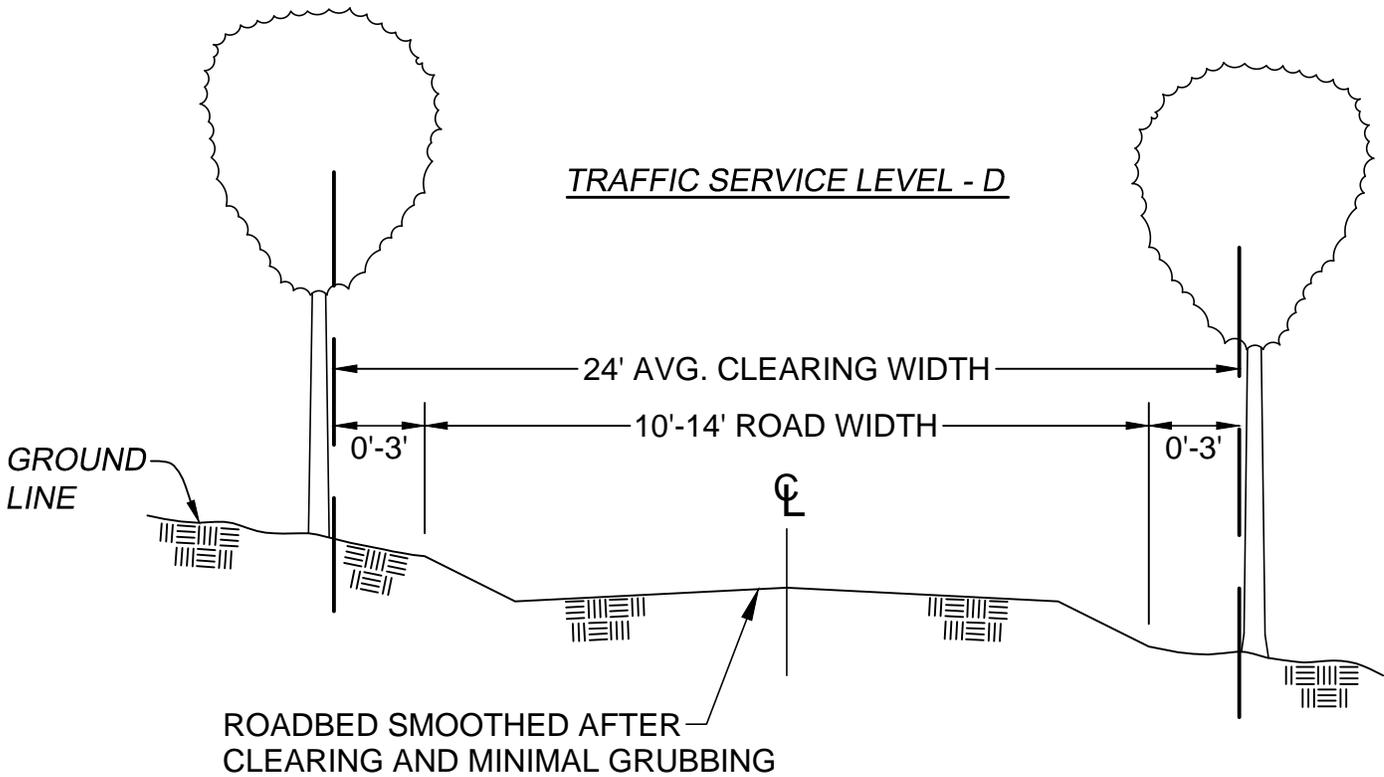


NOTE:
BERM TO BE CONSTRUCTED AFTER SALE IS COMPLETED WITH
ROCKS/BOULDERS, LOGGING SLASH, CULL LOGS, STUMPS AND EARTH.
AS SHOWN IN ABOVE DRAWING, DO NOT DIG DITCHES ON EITHER SIDE
OF BERM FOR BORROW MATERIAL TO CONSTRUCT BERM.

TYPICAL BERM DETAIL
NOT TO SCALE

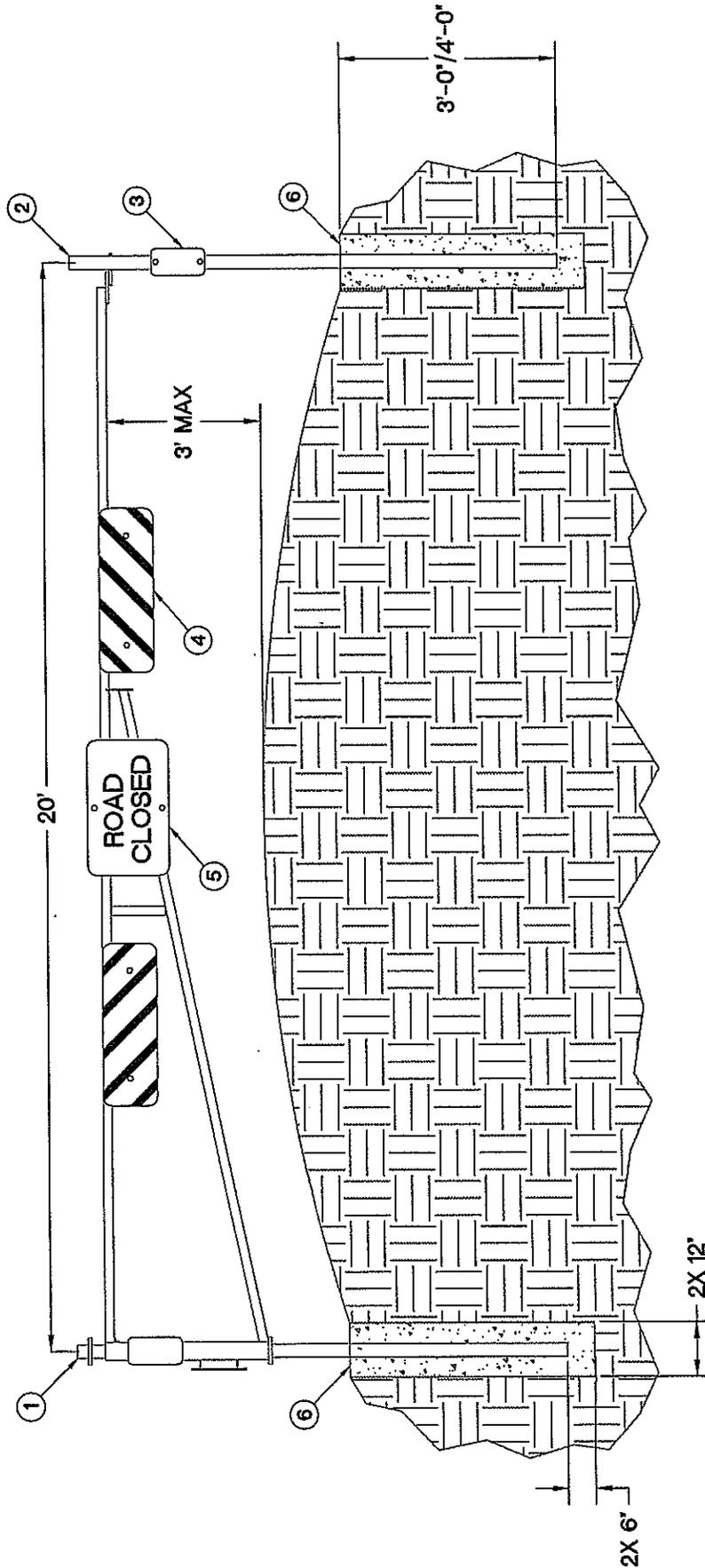


**TYPICAL CONSTRUCTED
SIDEROAD ENTRANCE**
NOT TO SCALE



CROSS SECTION VIEW

WINTER ONLY ROAD STANDARD
NOT TO SCALE

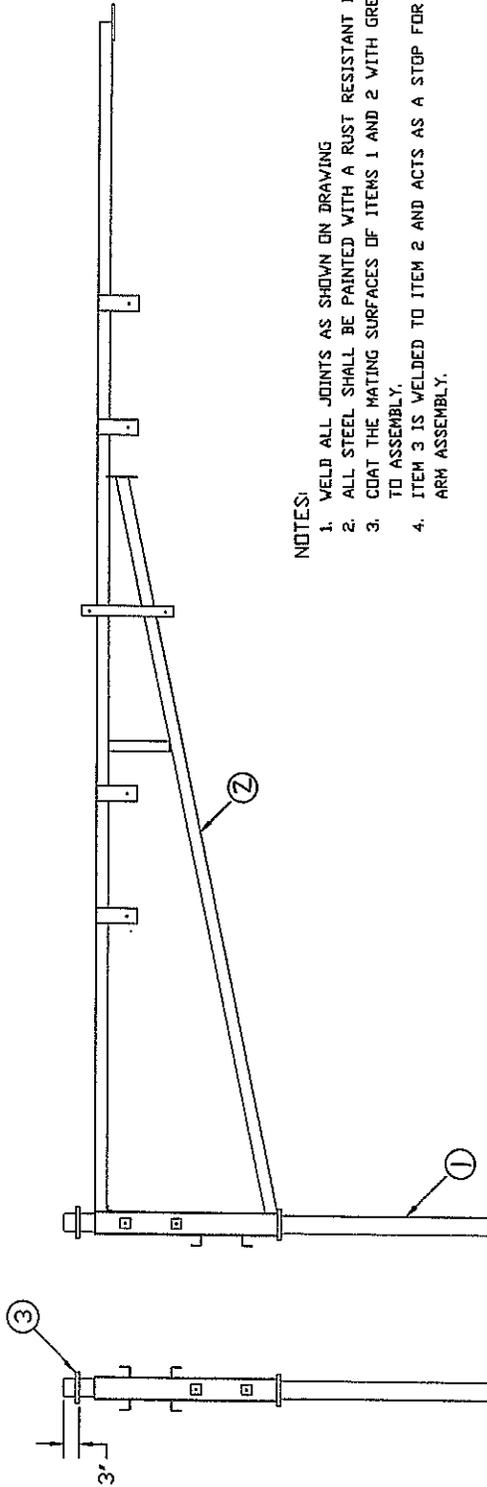


GATE INSTALLATION

NOTES:

1. GATE SHALL BE LOCATED BY THE ENGINEER.
2. TOUCH UP THE FINISH IN ANY AREAS THAT WERE DAMAGED DURING INSTALLATION.
3. ITEMS 3, 4 AND 5 (SIGNS AND MARKERS) WILL BE PROVIDED BY THE FOREST SERVICE, WITH INSTALLATION TO BE DONE BY THE PURCHASER. THE PURCHASER IS RESPONSIBLE FOR ALL ATTACHMENT HARDWARE.
4. ITEM 7 (NOT SHOWN) IS A RESTING POST FOR THE GATE WHEN IT IS OPEN. THE POST SHALL BE BURIED TO A DEPTH OF 2 TO 3 FEET AND CUT TO THE APPROPRIATE HEIGHT. LOCATE PER THE ENGINEER.

ITEM	PART NO	QTY	DESCRIPTION
1	301	1	GATE SWING ASSY
2	099	1	LOCK POST ASSY
3	---	5	SKIN, YELLOW OBJECT MARKER
4	---	4	SKIN, RED AND WHITE GATE MARKERS
5	---	1	SKIN, ROAD CLOSED
6	---	2	SACRETE 02 CURB YARDS (METHOD C)
7	---	1	4" X 4" X 8' TREATED LUMBER (NOT SHOWN)



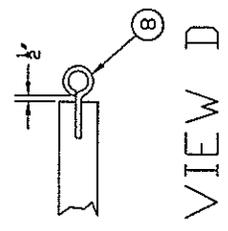
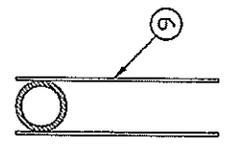
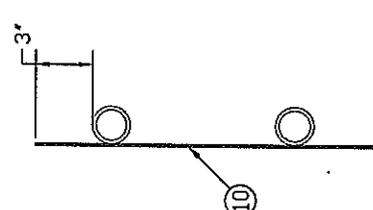
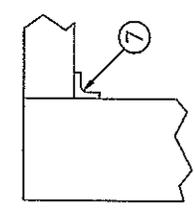
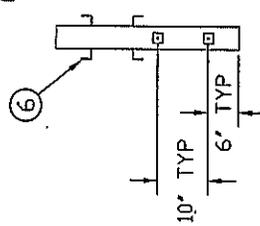
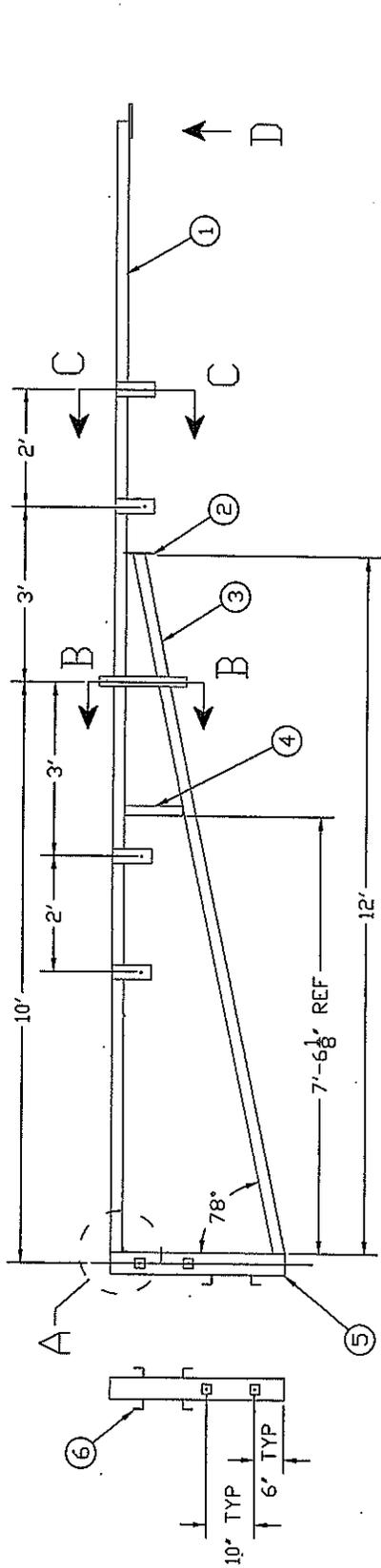
NOTES:

1. WELD ALL JOINTS AS SHOWN ON DRAWING
2. ALL STEEL SHALL BE PAINTED WITH A RUST RESISTANT BROWN PAINT.
3. COAT THE MATING SURFACES OF ITEMS 1 AND 2 WITH GREASE PRIOR TO ASSEMBLY.
4. ITEM 3 IS WELDED TO ITEM 2 AND ACTS AS A STOP FOR THE SWING ARM ASSEMBLY.

GATE SWING ASSEMBLY

PART #101

ITEM	PART NO	QTY	DESCRIPTION
1	098	1	SWING POST
2	100	1	SWING ARM
3	--	1	4' SCHEDULE 40 X 3/4" PIPE



DETAIL A

SECTION B-B

SECTION C-C
4 PLACES

VIEW D

ITEM	PART NO	QTY	DESCRIPTION
1	--	1	2' SCHEDULE 40 X 19'-4' PIPE
2	007	1	ARM SUPPORT
3	--	1	2' SCHEDULE 40 X 12'-6' PIPE
4	--	1	2' SCHEDULE 40 X 12' PIPE
5	--	1	4' SCHEDULE 40 X 3' PIPE
6	008	6	SIGN BRACKET
7	002	1	STEEL ANGLE
8	004	1	EYE BOLT
9	001	8	SIGN BRACKET
10	005	1	SIGN BRACKET

NOTES:

1. WELD ALL JOINTS AS SHOWN ON DRAWING
2. ALL STEEL SHALL BE PAINTED WITH A RUST RESISTANT BROWN PAINT.

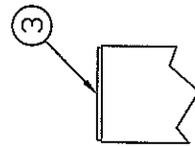
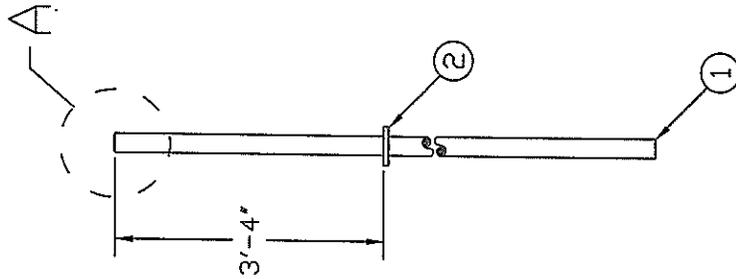
WELDMENT - SWING ARM

PART #100

NOTES:

1. WELD ALL JOINTS AS SHOWN ON DRAWING
2. ALL STEEL SHALL BE PAINTED WITH A RUST RESISTANT BROWN PAINT.
3. ITEM 2 IS WELDED TO ITEM 1 AND ACTS AS A STOP FOR THE SWING GATE ASSEMBLY.
4. ALL LOCATION DIMENSIONS APPLY PRIOR TO CAP INSTALLATION.

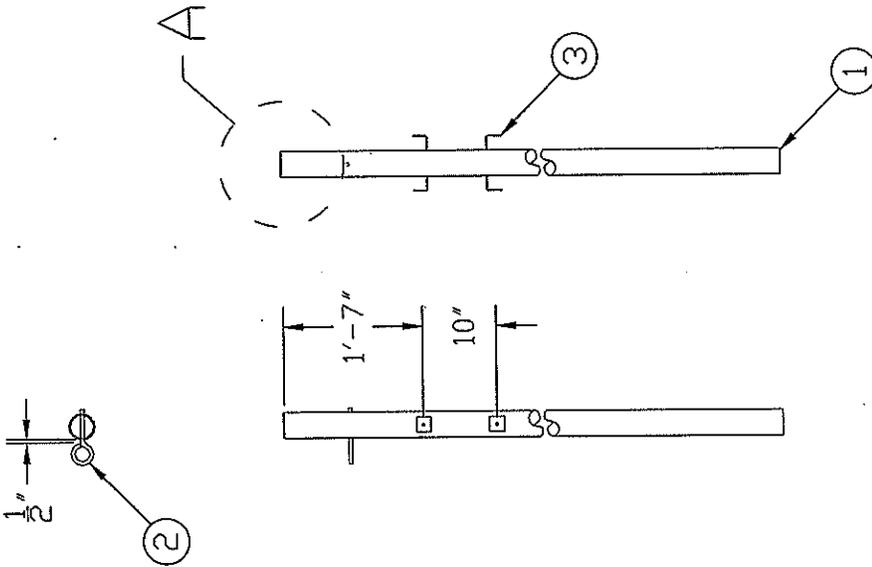
ITEM	PART NO	QTY	DESCRIPTION
1	---	1	3' SCHEDULE 40 X 7' PIPE
2	---	1	4' SCHEDULE 40 X 3/4" PIPE
3	003	1	POST CAP



WELDMENT - SWING POST

PART #098

DETAIL A



NOTES:

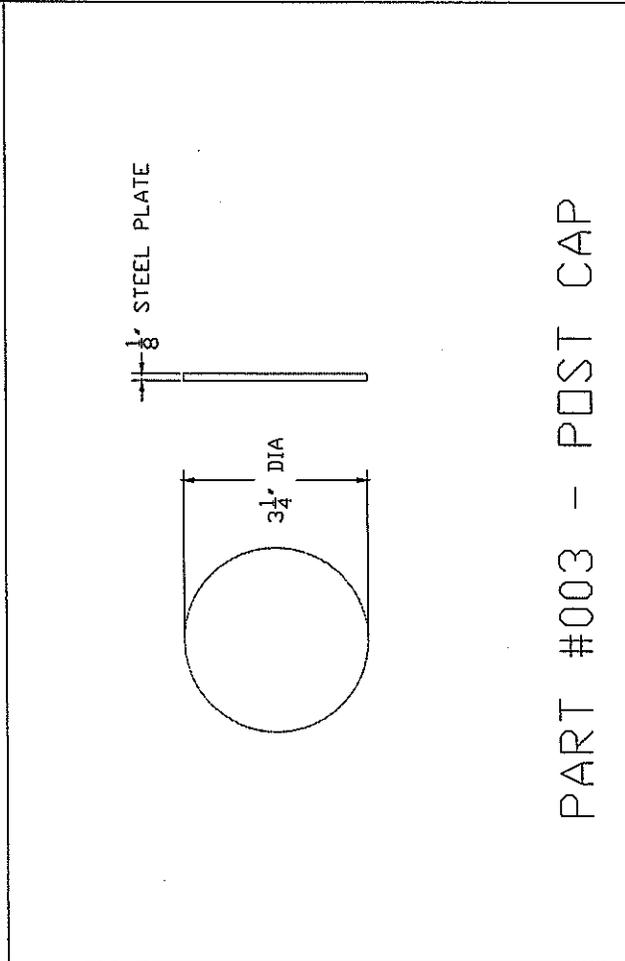
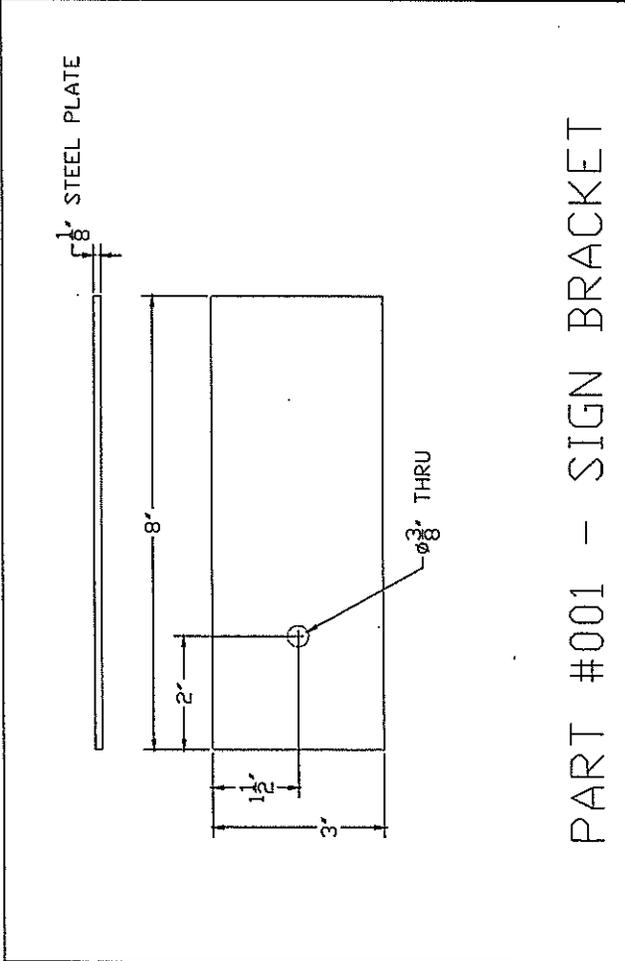
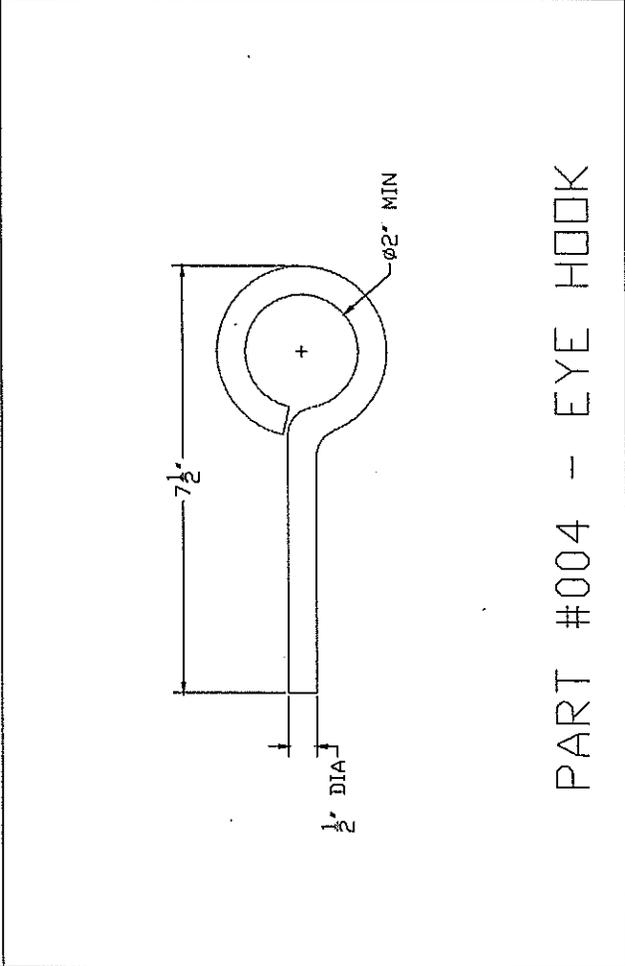
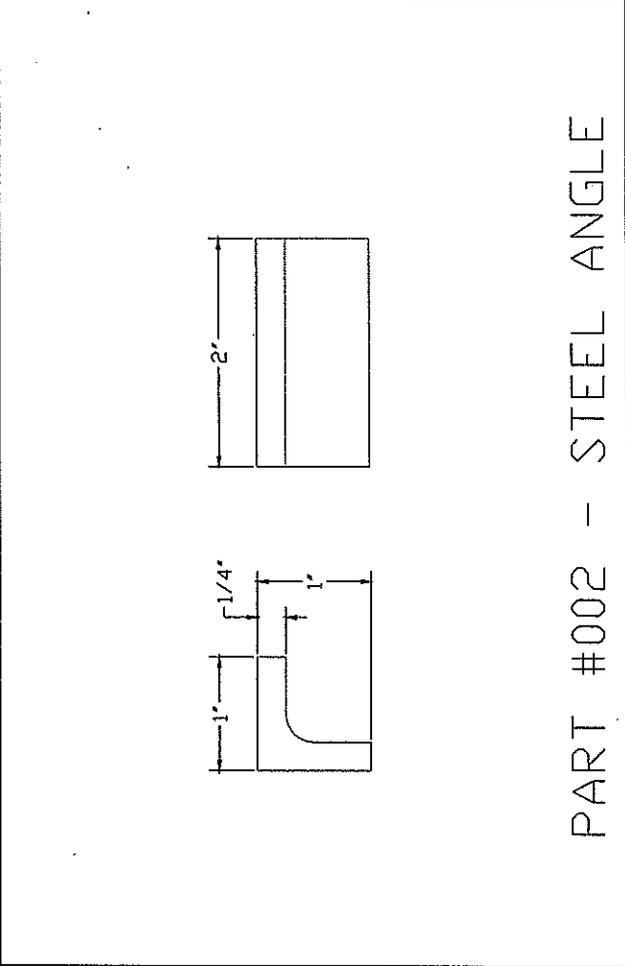
1. WELD ALL JOINTS AS SHOWN ON DRAWING
2. ALL STEEL SHALL BE PAINTED WITH A RUST RESISTANT BROWN PAINT.
3. ALL LOCATION DIMENSIONS APPLY PRIOR TO CAP INSTALLATION.

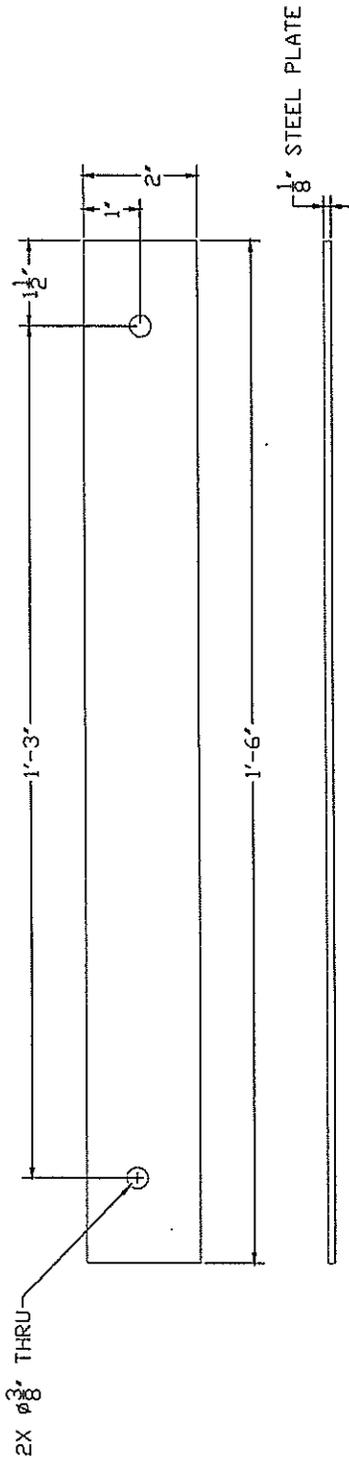
ITEM	PART NO	QTY	DESCRIPTION
1	006	1	STEEL PIPE
2	004	1	EYE BOLT
3	008	4	SIGN BRACKET
4	003	1	POST CAP

WELDMENT - LOCK POST

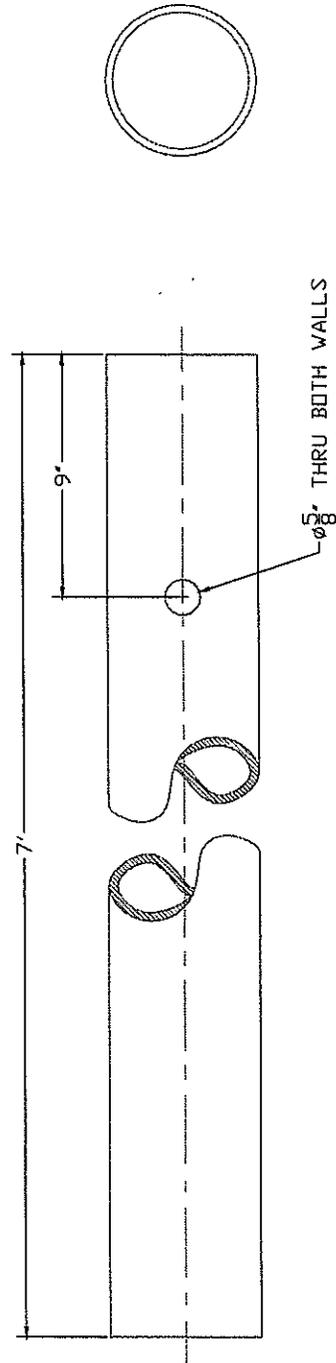
PART #099

DETAIL A



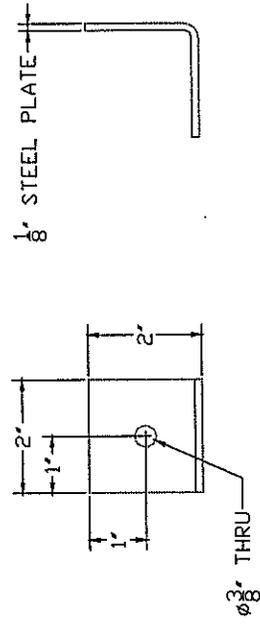
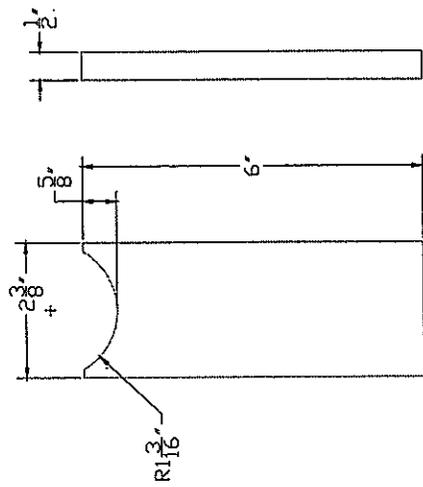


PART #005 - SIGN BRACKET



PART #006 - LOCK POST

NOTE:
 1. 3" SCHEDULE 40 PIPE

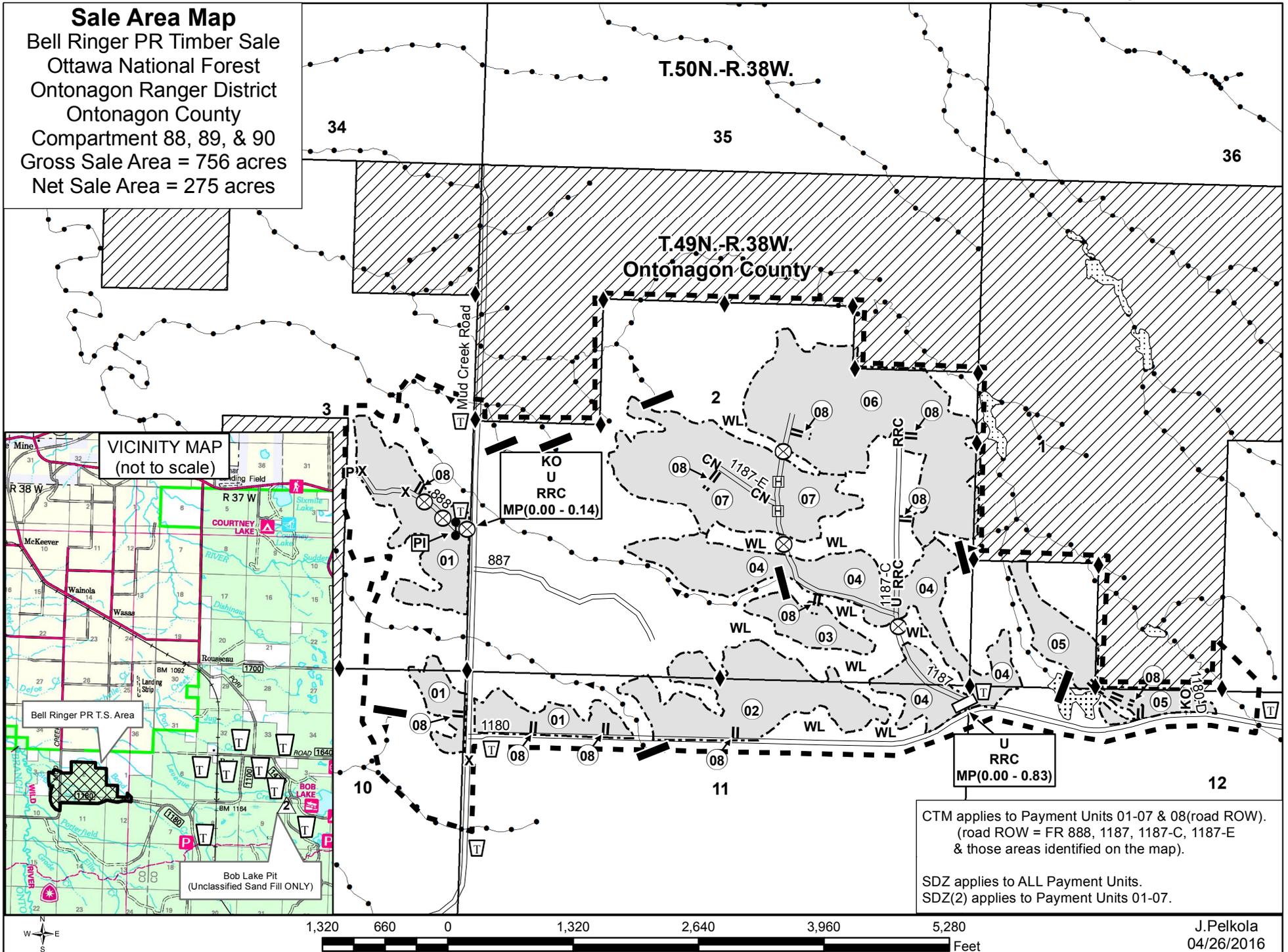


PART #007 - ARM SUPPORT

PART #008 - SIGN BRACKET

Sale Area Map

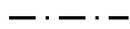
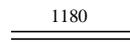
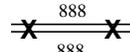
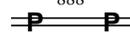
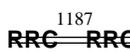
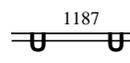
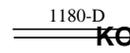
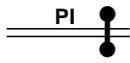
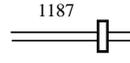
Bell Ringer PR Timber Sale
Ottawa National Forest
Ontonagon Ranger District
Ontonagon County
Compartment 88, 89, & 90
Gross Sale Area = 756 acres
Net Sale Area = 275 acres



CTM applies to Payment Units 01-07 & 08 (road ROW).
(road ROW = FR 888, 1187, 1187-C, 1187-E
& those areas identified on the map).

SDZ applies to ALL Payment Units.
SDZ(2) applies to Payment Units 01-07.

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
	Existing Transportation System Road, BT5.12, BT6.22
	Existing Transportation System Road, Hauling Prohibited, CT5.12#
	Existing Transportation System Road, Use Prohibited, CT5.12#
	Specified Road Construction (New), AT7, BT5.2, BT5.23, BT6.22, BT6.222, BT6.361
	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
	Specified Road Construction/Reconstruction, AT7, BT5.2, BT5.23, BT6.22, BT6.222, BT6.361 (Culvert installation)
	Specified Road Construction/Reconstruction – harden dip installation, AT7, BT5.2, BT5.23, BT6.22, BT6.222, BT6.361
	Protection of Improvements; Remove and Install GATE, AT7, BT6.22, CT5.31#
	Purchaser 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(2)	Slash Disposal Zone, CT6.7#
	Other Ownership
	Protection of Land Survey Monuments (Monumented Corner), BT6.23
	Traffic Control Device, BT6.33 (Safety)