

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE TIMBER SALE CONTRACT (Applicable to Sales to be Measured before Felling)		Name of Purchaser	
National Forest Hiawatha	Ranger District Munising	Region Eastern	Contract Number
Sale Name McGriever Salvage		Award Date	Termination Date 11/02/2018

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/}

(Name)

(Address)

(Name)

(Address)

By: _____
Contracting Officer

(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/}

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.

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 509 acres more or less is located in:

Township 44 North, Range 18 West, Section 7, 8, 18 and Township 44 North, Range 19 West, Section 13

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
Beech	Sawtimber	149.00	CCF	11.0	1	8	9.6	50
Mixed Hardwood - Other	Sawtimber	98.00	CCF	11.0	1	8	9.6	50
Beech	Pulpwood	825.00	CCF	5.0	1	8	4.0	70
Mixed Softwood	Pulpwood	43.00	CCF	5.0	1	8	4.0	70
Mixed Hardwood - Other	Pulpwood	315.00	CCF	5.0	1	8	4.0	70
Total Quantity		1,430.00	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)	1	2
Overstory Removal Units (BT2.33)		
Understory Removal Units (BT2.34)		
Individual Trees (BT2.35)		176.25
Incompletely Measured Payment Units (BT2.36)		

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

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

Not Applicable

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

Species	Product	Unit of Measure	Rates per Unit of Measure				Required Deposits Slash Disposal \$
			Base \$	Advertised \$	Bid Premium \$	Bid (Flat) \$	
Beech	Sawtimber	CCF	42.82	66.54			.00
Mixed Hardwood - Other	Sawtimber	CCF	70.12	109.32			.00
Beech	Pulpwood	CCF	19.71	30.31			.00
Mixed Softwood	Pulpwood	CCF	26.23	40.53			.00
Mixed Hardwood - Other	Pulpwood	CCF	27.38	42.34			.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.

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 \$
1	23.95			Beech Sawtimber 46.00 CCF		
				Mixed Hardwood - Sawtimber 6.00 CCF		
				Other		
				Beech Pulpwood 127.00 CCF		
				Mixed Softwood Pulpwood 1.00 CCF		
				Mixed Hardwood - Pulpwood 23.00 CCF		
				Other		
Total PU Quantity And Value				203.00 CCF		
2	45.54			Beech Sawtimber 34.00 CCF		
				Mixed Hardwood - Sawtimber 41.00 CCF		
				Other		
				Beech Pulpwood 238.00 CCF		
				Mixed Softwood Pulpwood 2.00 CCF		
				Mixed Hardwood - Pulpwood 142.00 CCF		
				Other		
Total PU Quantity And Value				457.00 CCF		
3	35.31			Beech Sawtimber 22.00 CCF		
				Mixed Hardwood - Sawtimber 13.00 CCF		
				Other		
				Beech Pulpwood 152.00 CCF		
				Mixed Softwood Pulpwood 6.00 CCF		
				Mixed Hardwood - Pulpwood 66.00 CCF		
				Other		
Total PU Quantity And Value				259.00 CCF		
4	71.45			Beech Sawtimber 45.00 CCF		
				Mixed Hardwood - Sawtimber 36.00 CCF		
				Other		
				Beech Pulpwood 306.00 CCF		
				Mixed Softwood Pulpwood 34.00 CCF		
				Mixed Hardwood - Pulpwood 84.00 CCF		
				Other		
Total PU Quantity And Value				505.00 CCF		
ROW	2			Beech Sawtimber 2.00 CCF		
				Mixed Hardwood - Sawtimber 2.00 CCF		
				Other		
				Beech Pulpwood 2.00 CCF		
				Mixed Hardwood - Pulpwood 0.00 CCF		
				Other		
				Total PU Quantity And Value		

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

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

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

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

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

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

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

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

Not Applicable

AT6 - High Stumps, applicable to BT6.412

Species	Product	Maximum Stump Height (inches)
All	Sawtimber	12
All	Pulpwood	6

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/}
2173C	GRASSY LAKE SPUR C (R) (segment 0 to .06)	Single Lane - 10 mph	.06 / .1	HI-659 09/10/2015	FS	FS	FS BC
2534	PETES LAKE SOUTH (R) (segment 0 to .03)	Single Lane - 10 mph	.03 / .05	HI-659 09/10/2015	FS	FS	FS BC
2163	WEDGE LAKE (R) (segment 0 to .86)	Single Lane - 10 mph	.86 / 1.38	HI-659 09/10/2015	FS	FS	FS BC

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

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

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

AT9 - Fire Precautionary Period, applicable to BT7.2

April 01 to December 01, inclusive

AT10 - Purchaser Responsibility to Furnish Crews and Equipment for:

Initial Fire Suppression, applicable to BT7.3

Within 5 road miles

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

Within 10 road miles

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

Maximum Amount: \$ \$1,300

AT12 - Termination Date, applicable to BT8.2

November 02, 2018

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

First Period: September 01 to February 28, inclusive

Second Period: _____ to _____, inclusive

AT14 - Performance Bond, applicable to BT9.1

Performance Bond Amount: _____

AT15 - Downpayment, applicable to BT4.211

Downpayment Amount: _____

AT16 - Periodic Payment Amount, applicable to BT4.213

	<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:** 211135

AT18 - Inapplicable Standard Provisions

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

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

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)
CT5.12#	USE OF ROADS BY PURCHASER (06/1999)
CT5.213#	DEPOSIT FOR RECONSTRUCTION ENGINEERING SERVICES (04/2004)
CT5.221#	MATERIAL SOURCES (04/2004)
CT5.31#	ROAD MAINTENANCE REQUIREMENTS (07/2001)
CT5.32#	ROAD MAINTENANCE DEPOSIT SCHEDULE (07/2001)
CT5.33#	SNOW REMOVAL (06/2009)
CT6.2#	FACILITIES TO MANUFACTURE INCLUDED TIMBER (06/2009)
CT6.24#	SITE SPECIFIC SPECIAL PROTECTION MEASURES (04/2004)
CT6.313#	CUTTING SCHEDULE (06/2009)
CT6.314#	OPERATING REQUIREMENTS (06/2009)
CT6.412	STUMP MARKS (02/2009)
CT6.42#	SKIDDING AND YARDING REQUIREMENTS (06/2009)
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)

Sale Name: McGriever Salvage

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

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

CT2.355# - 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

Cut Tree Marking Table
CT2.355# Individual Trees

Payment Unit	Paint Color
1	Blue
2	Blue
3	Blue
4	Blue
ROW	Green

Sale Name: McGriever Salvage

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.

Sale Name: McGriever Salvage

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

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

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

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

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

(i) Simple interest shall be assessed at the Current Value of Funds Rate as established by the Secretary of the Treasury. Interest will begin to accrue as of the date of issue indicated on the initial bill for collection.

(ii) Debtors will be assessed administrative charges, in addition to the delinquent amount due. Administrative charges are those additional costs incurred by the Government in processing, handling, and collecting delinquent debts.

(iii) A penalty charge of six (6) percent per annum will be assessed on any portion of a debt delinquent more than 90 days. This penalty charge is in addition to interest and administrative charges under paragraphs (c)(i) and (c)(ii). The penalty charge shall accrue from the date of issue indicated on the bill for collection and shall be assessed on all outstanding amounts, including interest and administrative costs assessed under paragraphs (c)(i) and (c)(ii).

(iv) Payments will be credited on the date received by the Federal Depository or Collection Officer designated on the bill for collection.

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

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

Sale Name: McGriever Salvage

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.

Restricted Road List
CT5.12# - Use of Roads by Purchaser

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
2534B	Petes Lake South Spur B	2534	POE	R	Use Restricted March 1-August 31
2534	Petes Lake South	FH-13	POE	R	Use Restricted March 1-August 31
2163C	Wedge Lake Spur C	2534	2163	R	Use Restricted March 1-August 31
M102D	Spur M102D	2463C	2163C	R	Use Restricted March 1-August 31
2163	Wedge Lake	FH-13	POE	R	Use Restricted March 1-August 31

Sale Name: McGriever Salvage

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

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

The total amount to be deposited by Purchaser for reconstruction related engineering services to be completed by Forest Service personnel or by public works contract is \$1,846.00. Purchaser shall make this deposit at the end of the first full Normal Operating Season or 12 months from contract award, whichever occurs first. In the event a different deposit schedule is agreed to, such deposit shall be due within 15 days after the date of issue indicated on the initial bill for collection, pursuant to BT4.4.

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

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

Road or Facility No.	Termini		Engineering Services Completion Date
	From	To	
Road-2163	0	.86	09/01/2016
Road-2173C	0	.06	09/01/2016
Road-2534	0	.03	09/01/2016

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

Sale Name: McGriever Salvage

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: McGriever Salvage

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.

Material Source Table, CT5.221#

Gravel	Nebel Pit T45N, R18W, NW ¼ of NE ¼ of Section 31
Base Rock & Surface Material	Nebel Pit T45N, R18W, NW ¼ of NE ¼ of Section 31
All Other Material Sources	Nebel Pit T45N, R18W, NW ¼ of NE ¼ of Section 31

Sale Name: McGriever Salvage

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

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

See Contract Road Maintenance Requirements Summary Table.

CT5.31# Road maintenance Requirements

Sections 1, 2, and 4, of the Road Maintenance Requirements are attached at the end of this provision.

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SUMMARY TABLE

Road Number	Termini		Miles	Applicable Pre-Haul Road Maintenance Specifications T-8110
	From	To		
2534B	2534	POE	0.1	P
2534	FH-13	POE	0.8	P
2173C	2173	MP 0.5	0.5	P
M103J	2173C	POE	0.1	P
2163	FH-13	POE	0.9	P
M102D	2163C	2631C	0.1	P
2163C	2534	2163	0.8	P
2163D	2163	POE	0.1	P
2163A	2163	POE	0.1	P
2173	2173C	FH-13	2.0	D

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

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SUMMARY TABLE

Road Number	Termini		Miles	Applicable During-Haul Road Maintenance Specifications
	From	To		T-8110
2534B	2534	POE	0.1	P
2534	FH-13	POE	0.8	P
2173C	2173	MP 0.5	0.5	P
M103J	2173C	POE	0.1	P
2163	FH-13	POE	0.9	P
M102D	2163C	2631C	0.1	P
2163C	2534	2163	0.8	P
2163D	2163	POE	0.1	P
2163A	2163	POE	0.1	P
2173	2173C	FH-13	2.0	D

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

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SUMMARY TABLE

Road Number	Termini		Miles	Applicable Post-Haul Road Maintenance Specifications
	From	To		T-8110
2534B	2534	POE	0.1	P
2534	FH-13	POE	0.8	P
2173C	2173	MP 0.5	0.5	P
M103J	2173C	POE	0.1	P
2163	FH-13	POE	0.9	P
M102D	2163C	2631C	0.1	P
2163C	2534	2163	0.8	P
2163D	2163	POE	0.1	P
2163A	2163	POE	0.1	P
2173	2173C	FH-13	2.0	D

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

SECTION 1. GENERAL

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

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

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

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

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

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

SECTION 2. ROAD MAINTENANCE DEFINITIONS

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

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

Borrow. Select Material taken from designated borrow sites.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 4. ROAD MAINTENANCE SPECIFICATIONS

INCLUDED SPECIFICATIONS

<u>Specification No.</u>	<u>Specification Title</u>
T-8110	Maintenance Blading/Grading

T-8110 Maintenance Blading/Grading

DESCRIPTION

1.1 Maintenance Blading/Grading is keeping an aggregate surfaced Roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the Crown, Inslope or Outslope of the Traveled Way, Turnouts, and Shoulder; repairing Berms; blending approach road intersections; and cleaning Drainage Dips and Lead-off Ditches.

REQUIREMENTS

3.1 Maintenance Blading/Grading shall be performed to facilitate traffic and proper drainage before, during, or after Purchaser's use as required by Section 3. Road Maintenance Requirements Schedule.

3.2 The surface blading shall preserve the existing cross-section. Surface irregularities shall be eliminated and the surface left in a smooth, free-draining state needed to facilitate traffic. Surface Course Material which has been displaced to the Shoulders or Turnouts shall be returned to the Traveled Way. The blading operation shall be conducted to conserve Surface Material and to provide for a thorough mixing of the Material being worked.

3.3 On aggregate surfaced roads Material generated from back slope Sloughing and ditch cleaning shall not be blended with Surface or Base Course Material unless agreed otherwise

3.4 Roadway back slopes shall not be undercut.

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

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

Sale Name: McGriever Salvage

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

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

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

The Required Deposits for Forest Service work in lieu of Purchaser performance and for deferred maintenance is: \$.55 per CCF.

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

Deposit Made To	Rate	Unit of Measure
N/A		

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 1-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: McGriever Salvage

CT6.2# - FACILITIES TO MANUFACTURE INCLUDED TIMBER (06/2009)

Purchaser may construct or operate facilities, including portable chippers, to manufacture or process Included Timber when approved in writing by Forest Service and when facilities are constructed and used in a manner which will protect National Forest values. Written approval shall specify suitable locations and specify standards of design, construction, use, maintenance of the facilities, and proper disposal of waste and debris.

CT6.24# - SITE SPECIFIC SPECIAL PROTECTION MEASURES (04/2004)

Special protection measures needed to protect known areas identified on Sale Area Map or on the ground include:

Cultural Resource Protection Measures: N/A

Wildlife and Botanical Protection Measures: N/A

Cave Resource Protection Measures: N/A

Unless otherwise agreed to in writing, no operations shall be permitted in the "SMA" between Payment Units 1, 2, and 4.

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

Unless changed by written agreement, only 2 Payment Units may be released at one time, and the sequence of cutting Payment Units shall be: Payment Units 1 and 2 or Payment Units 3 and 4 may be open at one time. Payment Unit ROW will not be considered as one of the two Payment Units open at one time.

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

Sale Name: McGriever Salvage

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

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

Restricted operations/activities:

Within Payment Unit 1, operations shall be confined to December 1 through March 1 when snow conditions are at least 12 inches in depth.

Within Payment Units 2, 3, and 4, no operations shall be permitted March 1 through August 31.

-
Prohibited operations/activities:

N/A

CT6.412 - STUMP MARKS (02/2009)

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. When necessary to leave paint on stump, stumps of individually Marked trees may exceed maximum heights set forth in AT6.

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

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

Within Payment Unit(s)

1, 2, 3, and 4, as shown on the Sale Area Map with the symbol "SYR", unless otherwise agreed to in writing, the overall width of skidding and forwarding equipment, including the blade, shall not exceed 9.5 feet and the skidding/forwarding of products longer than 17 feet shall not be permitted.

Within portions of Payment Unit(s)

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

Sale Name: McGriever Salvage

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:

At specified locations designated by the Forest Service, the Purchaser shall effectively block the road in a manner as agreed at the time of approval.

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:

Within Payment Payment Unit 1, all slash resulting from the Purchaser's logging operations adjacent to FH-13 shall be removed 25 feet from the cleared road edge. From 25 to 50 feet, all slash resulting from Purchaser's operations shall be made to lie within 4 feet of the ground.

Within Payment Payment Units 1,2, and 4 all slash resulting from the Purchaser's logging operations adjacent to the McKeever Ski Trail shall be removed 25 feet from the trail. From 25 to 50 feet, all slash resulting from Purchaser's operations shall be made to lie within 4 feet of the ground.

All slash resulting from the Purchaser's logging operations adjacent to FR 2163, FR 2163C, FR M102D, FR 2163D, FR 2534, and FR 2534B shall be removed 25 feet from the cleared road edge. From 25 to 50 feet, all slash resulting from the Purchaser's operations shall be made to lie within 4 feet of the ground.

Sale Name: McGriever Salvage

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.

U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE - REGION 9
 HIAWATHA NATIONAL FOREST
 SCHOOLCRAFT COUNTY, MICHIGAN
MCGRIEVER SALVAGE TIMBER SALE HI-659
PROJECT AREA ROADS

THE INTENT OF CONTRACT: The intent of the contract is to provide for the complete construction/reconstruction of the project described in the contract. Unless otherwise provided for, the contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies, and shall perform all work required to complete construction/reconstruction, to conform with the drawings and specifications, and in accordance with the provisions of the contract.

<u>ROAD NAME</u>	<u>ROAD NUMBER</u>	<u>LENGTH</u>		<u>INDEX OF SHEETS</u>
Wedge Lake	2163	0.86	R	1 Title
Grassy Lake Spur C	2173C	0.06	R	2 Location Map
Pete's Lake South	2534	0.03	R	3 Construction Notes
				4-7 Details and Typicals
				<u>Tabulation of Quantities</u>
	Total	0.95	Miles R	8 2163
				9 2173C
				10 2534
				11 Schedule of Items
				12 Engineers Estimate
				A1-A5 Specifications

Reconstruction = R

Aggregate Source
Nebel Pit
 T45N R18W
 NW1/4 of the NE1/4
 Section 31

Road Pkg. Designed by: W. Dutter

Date: July 2015

Plans, Specifications, and Estimates have been reviewed.

Forest Engineer

Grey Gardner

Date: 8/31/15

District Ranger

Charles Wood

Date: 9/10/15

ROADS MAP
 HIAWATHA NATIONAL FOREST
 MUNISING RANGER DISTRICT
 MCGRIEVER SALVAGE TIMBER SALE



CONSTRUCTION NOTES

LV203 – EXCAVATION

Construction Tolerances:

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

LV 203.02 – Rocks in the roadbed that protrude less than 2” above the finished road surface will be allowed to remain in place.

LV 203.03-Removal of Obstructions entails removing guard posts and rocks from current location, and placing them at the station specified in the Tabulation of Quantities, to allow for ample room to turn around log trucks.

LV 304 – AGGREGATE SURFACE COURSE

LV 304.02 Breaker Run aggregate will be from the Nebel Pit, T45N R18W, NW1/4 of the NE1/4, Sec. 31.

Specified gradation of aggregate shall comply with the following:

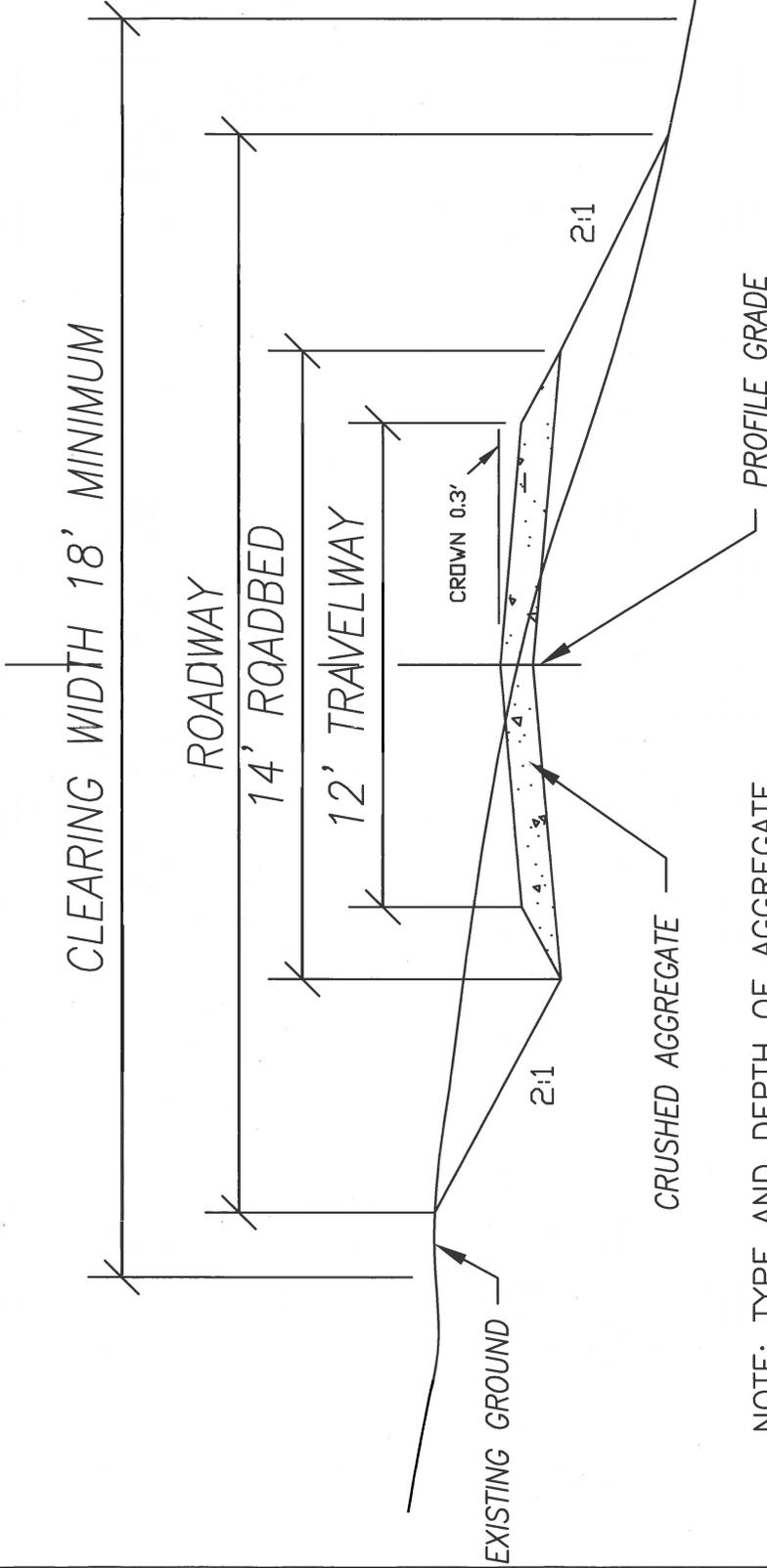
Gradation B. 3” Breaker Run

LV 304.03 – Thickness The compacted thickness of the aggregate shall not vary more than +/- 1” from the specified thickness.

CONSTRUCTION STAKING – Construction stakes and clearing limit flagging will be set by the Forest Service. **Construction stakes shall be maintained by the contractor throughout the life of the project.** After final inspection the Contractor will be responsible for removing all flagging from the site and disposing of properly. Payment for flagging removal is included under Item LV 201(02).

CLEARING HEIGHT 14' MINIMUM

CLEARING WIDTH 18' MINIMUM

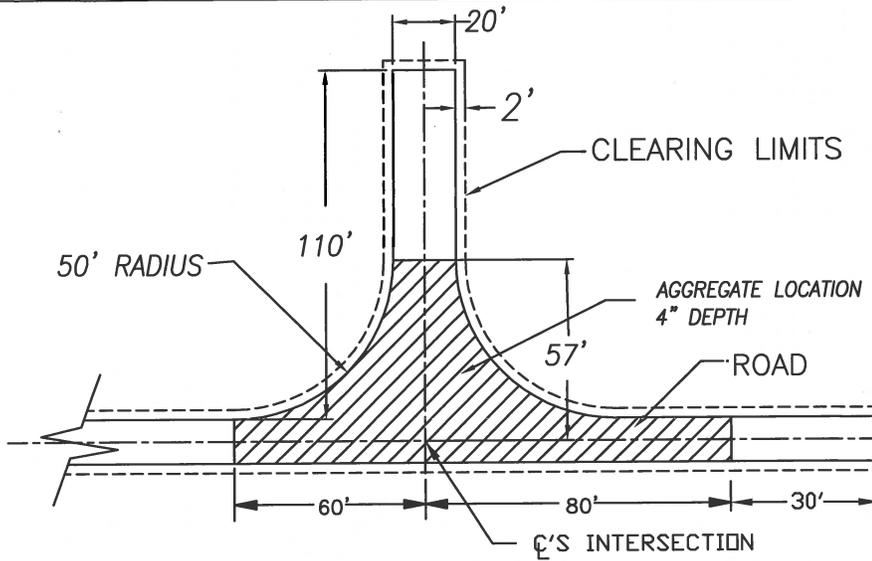


NOTE: TYPE AND DEPTH OF AGGREGATE
MAY DIFFER, SEE TABULATION
OF QUANTITIES.

TYPICAL SECTION A

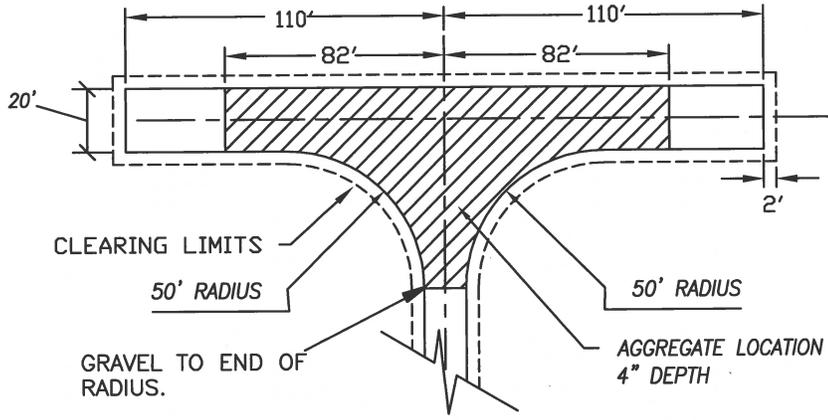
NO SCALE





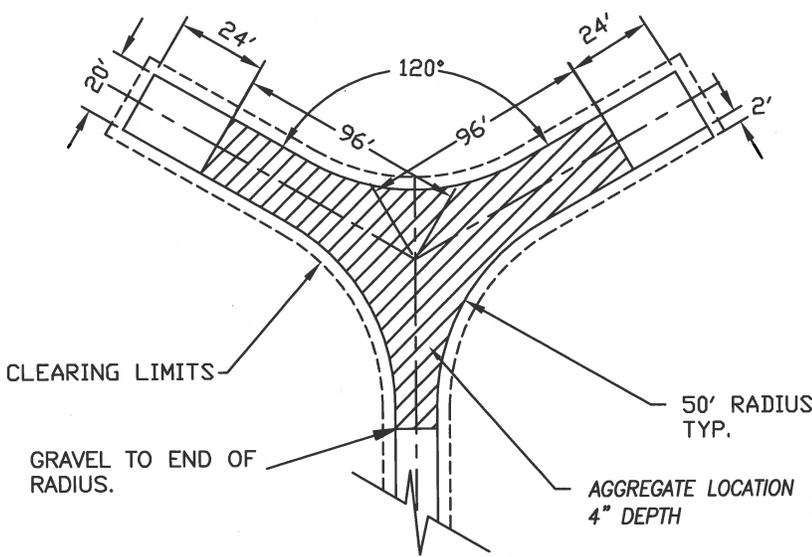
L-TURNAROUND DETAIL

NO SCALE



T-TURNAROUND DETAIL

NO SCALE



WYE-TURNAROUND DETAIL

NO SCALE

Project No:
HI-659
Sheet
5 of 12

Sub Sheet

Sheet Title:
Typical Turnaround Details
McGriever Salvage Timber Sale

Design:
Date:

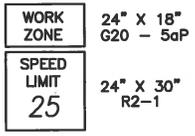
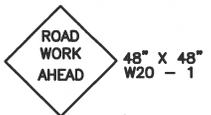
Forest:
HIAWATHA
NATIONAL FOREST
MUNISING RANGER DISTRICT

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-9
EASTERN REGION

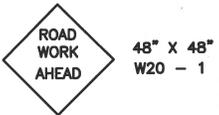
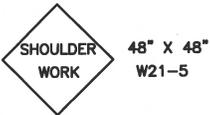
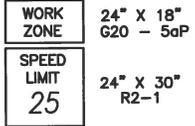


KEY

- • • CHANNELIZING DEVICES (CONES)
-  LIGHTED ARROW PANEL (CAUTION MODE)
-  TRAFFIC FLOW
- G20 - 2 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
- 48" X 48" TRAFFIC CONTROL DEVICES DIMENSIONS



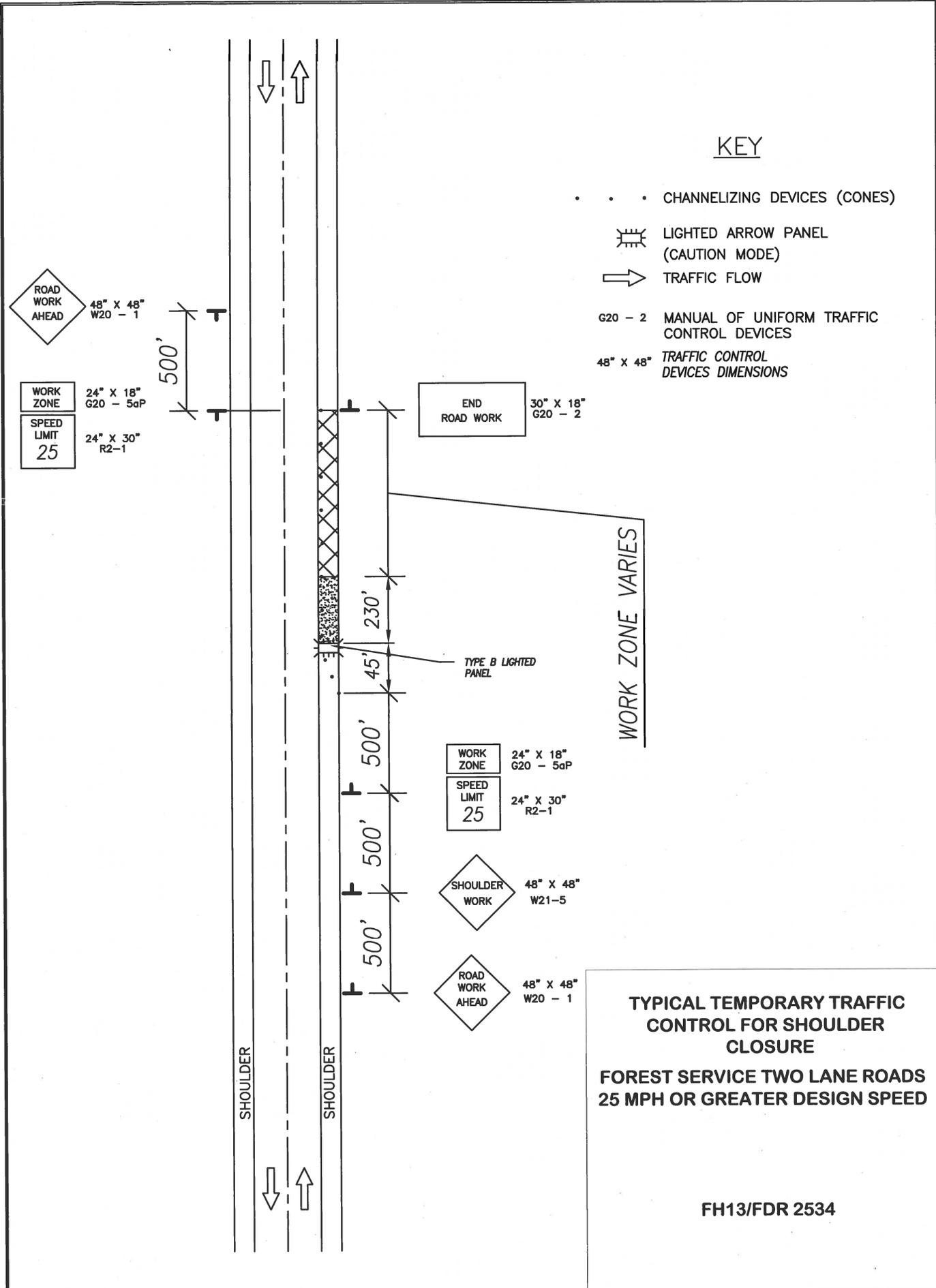
TYPE B LIGHTED PANEL



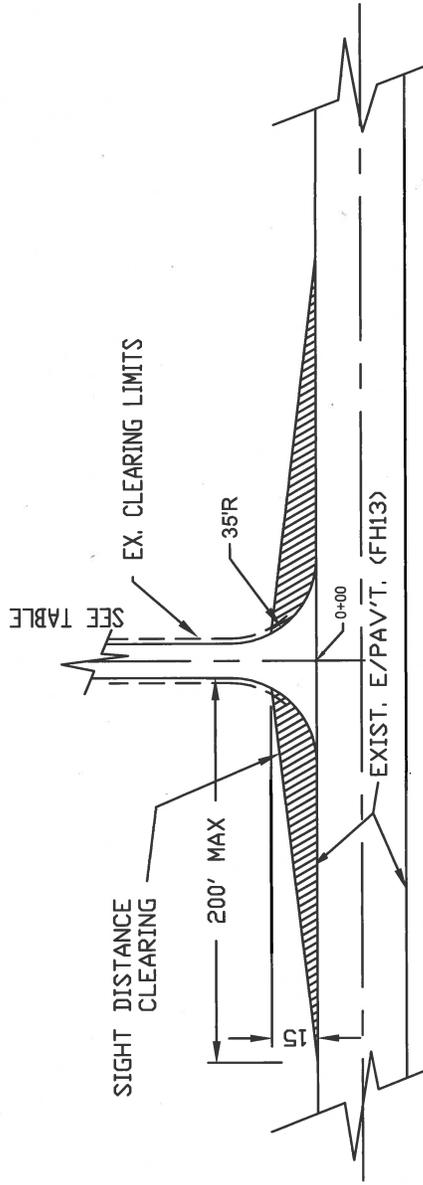
WORK ZONE VARIES

TYPICAL TEMPORARY TRAFFIC CONTROL FOR SHOULDER CLOSURE
FOREST SERVICE TWO LANE ROADS
25 MPH OR GREATER DESIGN SPEED

FH13/FDR 2534



SIGHT DIST. CLEARING TABLE
 FH13 & FDR2534 (SE QUAD)



TYPICAL INTERSECTION

NO SCALE

U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE



R-9
 EASTERN REGION

Forest:

HIAWATHA
 NATIONAL FOREST
 MUNISING RANGER DISTRICT

Design:

Date:

Sheet Title:

Sight Distance Clearing
 McGriever Salvage Timber Sale

Sub Sheet:

Project No:
 HI-659

Sheet
 7 of 12

Hiawatha National Forest
 McGriever Salvage T.S. HI-659
 Tabulation of Quantities

FDR2534

BEGIN STATION	END STATION	Description of Work	15101				63301	COMMENTS
			Mobilization (LS)	20102B Clearing (LSUM)	20303 Removal of Obstructions (LSUM)	Temp Traffic Control (LS)		
0+00		POB-E. edge pav't. FH13. Sight dist. clearing SE quad.	0.333	1.00		1.00		
	1+45	POE-McKeever parking lot. Remove and replace sign and donation box when logging complete.			1.00			
		ROADWAY TOTALS	0.333	1.00	1.00	1.00		

Hiawatha National Forest
McGriever Salvage T.S. HI-659
Schedule of Items

Item No.	Description	Unit	Quantities by Road				Total Est. Quantity
			2163	2173C	2534		
15101	Mobilization	Lump Sum	0.33	0.33	0.33	1.00	
20102A	Clearing & grubbing	Lump Sum	0	1.00	0	1.00	
20102B	Clearing	Lump Sum	1.00	1.00	1.00	3.00	
20302A	Roadway Excavation	Station	0	2.30	0	2.30	
20302E	Roadway Reconditioning	Station	7.15	0	0	7.15	
20303	Removal of Obstructions	Lump Sum	0	1.00	1.00	2.00	
30402B	Aggregate base (Haul & Place), Breaker Run, compaction method A	Cubic Yard*	0	60	0	60	
30402B	Aggregate base (Processing), Breaker Run	Cubic Yard*	0	60	0	60	
63301	Temporary Traffic Control Device	Lump Sum	0	0	1.00	1.00	

All items are paid at contract quantities.(CQ)

Hiawatha National Forest
 McGriever Salvage T.S. HI-659
Engineers Estimate

Item No.	Description	Unit Price	2163	2173C	2534	TOTAL COST
15101	Mobilization (LSUM)	\$402.00	\$134.00	\$134.00	\$134.00	\$402.00
20102A	Clearing & Grubbing(LSUM)		\$0.00	\$150.00	\$0.00	\$150.00
20102B	Clearing (LSUM)		\$211.55	\$150.00	\$150.00	\$511.55
20302A	Roadway excavation(STA)	\$48.60	\$0.00	\$111.78	\$0.00	\$111.78
20302E	Roadway Reconditioning (STA)	\$46.70	\$333.91	\$0.00	\$0.00	\$333.91
20303	Removal of Obstructions(LSUM)		\$0.00	\$122.10	\$122.10	\$244.20
63301	Temporary Traffic Control Device(LSUM)		\$0.00	\$0.00	\$300.00	\$300.00

CT5.213#	Engineering Costs(LSUM)					\$1,846.00
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Road Totals	\$679.46	\$667.88	\$706.10	\$3,899.44
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TOTAL ALL ROADS				\$3,899.44
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HIAWATHA NATIONAL FOREST
SPECIFICATIONS FOR TIMBER SALE ROADWORK

McGriever Salvage Timber Sale
HI-659

Index of included specifications:

Section 101 – Control of Work

Section 201-Clearing and Grubbing

Section 203 – Excavation

SECTION 101 – CONTROL OF WORK

101.01 Use of Roads by Contractor

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

101.02 Inspection of Construction.

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

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

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

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

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

101.03 Public Traffic.

Description

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

General

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

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

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

Temporary Traffic Control

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

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

Temporary Closures

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

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

SECTION 201 – CLEARING AND GRUBBING

DESCRIPTION

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

CONSTRUCTION

201.02 CLEARING & GRUBBING. All debris, trees, stumps, roots, and other protruding vegetative material within the clearing limits shall be cleared, grubbed, removed, and disposed of, except that undisturbed stumps in locations STATED IN TABULATION OF QUANTITIES may remain.

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

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

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

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

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

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

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

201.04 DISPOSAL. Treatment of construction slash shall be accomplished by scattering slash outside the clearing limits without damaging trees. Timber and slash that is scattered within 15’ of the clearing limits shall have a maximum height of 12” above the ground. All other scattered slash shall be lopped and scattered to reduce concentrations and made to lie within four feet of the ground concurrent with the clearing and grubbing operations unless other requirements are STATED IN TABULATION OF QUANTITIES. All logs shall be limbed. Logs and stumps shall be placed away from trees, positioned so they will not roll, and not be placed on top of one another. Grubbed and scattered stumps shall be turned upright with roots down.

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

MEASUREMENT

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

SECTION 203 – EXCAVATION

DESCRIPTION

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

CONSTRUCTION

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

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

Location and requirements for borrow excavation are SHOWN ON TABULATION OF QUANTITIES.

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

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

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

MEASUREMENT

203.03 The method of measurement will be on a linear basis or cubic yard basis. In both cases the original design quantity as shown on the SCHEDULE OF ITEMS will be the final quantity, unless adjustments are made as specified in the changes provision. For linear measurements the design quantity is the length of road measured along centerline.