NORTON STEWARDSHIP TIMBER SALE

ROAD MAINTENANCE APPRAISAL NOTES

NOTE: Road maintenance appraised roads include all roads or portions of roads not included in specified road work.

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: During clear and grub operations all slash resulting from purchasers operation shall be treated as per CT 6.7#.

NOTE: Blading and shaping requires filling in existing ruts and placing a crown to conform to the typical detail for a crown with no ditches, crown 1' ditches or out sloped roads.

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 the appraised allowance for clearing and shaping.

NOTE: During borrow hauling operations "Trucks Hauling" signs shall be placed on FR's 8100 and 8120. **Hauling shall not commence until all signs are placed as directed by the Forest Service.**

NOTE: There is 240 **C.Y. of pit run** material required for road maintenance segments. **This includes 60 C.Y. appraised for maintenance to be spot placed as directed by the Forest Service on FR 8143.** This volume plus the normal compaction factor of 130% for pit run computes to a loose volume of 312 C.Y. Material for this project may be taken from Blue Jay Pit, located at T45N, R44W, Section 2. Some pit development may be required and is considered incidental to associated items.

NOTE: There is **15 C.Y. of crushed aggregate surfacing** (19.5 C.Y. loose) to be placed at the entrance of FR 8120-R. **There is no government source available for this project.** Purchaser furnished material shall meet gradation requirements for the Michigan Department of Transportation-Designation 22A. Compact the aggregate by operating spreading and hauling equipment over the full width.

NOTE: There may be underground utility lines in unknown locations on this project. **Call MISS DIG** THREE full working days before any work begins. Phone 1-800-482-7171.

NORTON STEWARDSHIP TIMBER SALE
ROADWORK MAINTAINENCE PLAN-APPRAISAL ALLOWANCE

DATE: 9/25/2014

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
FR 8143			**D**				
	0.00-0.62	Clearing and Grubbing, and Reshaping of Road to match typical drawing as directed by the Forest Service.		Mile	0.62	$ 2,700.00	$ 1,674.00
	0.05-0.06	Haul and place 30 C.Y. pitrun aggregate to correct grade and provide more cover over existing culvert. (39 C.Y. loose material)		C.Y.	30	$ 12.00	$ 360.00
	0.10-0.11	Haul and place 30 C.Y. pitrun aggregate to correct grade and provide more cover over existing culvert. (39 C.Y. loose material)		C.Y.	30	$ 12.00	$ 360.00
	0.38	Haul and place 30 C.Y. pitrun aggregate to construct hardened dip. (39 C.Y. loose material)		C.Y.	30	$ 12.00	$ 360.00
	0.38	Construct outlet ditch, drain to right.		L.F.	60	$ 1.00	$ 60.00
	0.00-0.62	Appraisal allowance for 60 C.Y. of pit run aggregate as needed. To be spot placed as directed and agreed to by the Forest Servive. (78 C.Y. loose material)		C.Y	60	$ 12.00	$ 720.00
FR 8143	0.62-1.09	Clearing and Grubbing, and Reshaping of Road to match typical drawing as directed by the Forest Service.	**D/W**	Mile	0.47	$ 2,700.00	$ 1,269.00
		FR 8143 total maintenance					**$ 4,803.00**
FR 8143-A			**D**				
	0.00-0.48	Clearing and Grubbing, and Reshaping of Road to match typical drawing as directed by the Forest Service.		Mile	0.48	$ 2,700.00	$ 1,296.00
		FR 8143-A total maintenance					**$ 1,296.00**
FR 8143-A1			**D**				
	0.00-0.32	Clearing and Grubbing, and Reshaping of Road to match typical drawing as directed by the Forest Service.		Mile	0.32	$ 2,700.00	$ 864.00

Prepared By Tom Roberts
Civil Engineering Technician

NORTON STEWARDSHIP TIMBER SALE
ROADWORK MAINTAINENCE PLAN-APPRAISAL ALLOWANCE

DATE: 9/25/2014

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
	0.06	Widen road with local on-site borrow excavation from milepost 0.07		C.Y.	20	$ 5.00	$ 100.00
		FR 8143-A1 total maintenance					**$ 964.00**
FR 8143-C			**D**				
	0.00-0.06	Clearing and Grubbing, and Reshaping of Road to be used as a backin landing		Mile	0.06	$ 3,100.00	$ 186.00
	0.00	Haul and place 30 C.Y. pitrun aggregate to improve entrance. (39 C.Y. loose material)		CY	30	$ 12.00	$ 360.00
		FR 8143-C total maintenance					**$ 546.00**
FR 8120-R			**D**				
	0.00-0.31	Clearing and Grubbing, and Reshaping of Road to match typical drawing as directed by the Forest Service.		Mile	0.31	$ 3,100.00	$ 961.00
	0.00-0.01	Haul and place 15 C.Y. crushed aggregate material to surface entrance. (19.5 C.Y. loose material)		C.Y.	15	$ 25.00	$ 375.00
	0.31	Excavate left bank and place to right side to improve turnaround. Reshape/ slope excavation area upon completion of borrow.		C.Y.	170	$ 5.00	$ 850.00
		FR 8120-R total maintenance					**$ 2,186.00**
		Norton Stewardship					
		Grand Total Maintenance					**$ 9,795.00**

Prepared By Tom Roberts
Civil Engineering Technician