Hobo Lake Timber Sale Maintenance Plan
Appraisal Estimate

DATE: 3/22/2016

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
4760			**S**				
	0.00-1.00	Clearing and grubbing with minor shaping of road, and small brush/tree clearing to match typical drawing as directed by Forest Service. **Conserve topsoil/overburden**		Mile	1.00	2,200	$ 2,200.00
	0.00-0.01	Furnish, haul, and place 15 CY crushed aggregate to surface entrance. (19.5 CY loose)		C.Y.	15	28	$ 420.00
	0.44	Construct turnaround left		L.S.	1	200	$ 200.00
	0.75	Excavate 30 CY local borrow from right and place over culvert		C.Y.	30	5	$ 150.00
	0.76	Remove culvert and dispose of off of government property.		EA	1	200	$ 200.00
	0.76	Prepare culvert bed.		L.S.	1	150	$ 150.00
	0.76	Furnish and Install 18" x 30' high density polyethlene dual walled drainage pipe.		L.F.	30	17.5	$ 525.00
	0.00-1.00	**Haul and spot place as directed by Forest Service 100 CY (130 CY loose) pit run gravel for During Haul Road Maintenance.**		C.Y	100	14	$ 1,400.00
		FR 4760 Total Maintenance					**$ 5,245.00**
5256-C1			**S**				
	0.00-0.25	**Not a Purchaser Responsibility Segment. Hauling Prohibited.**					
	0.25-0.48	Clear, grub, and shape road to crown or out slope to match typical drawing as directed by Forest Service. **Conserve topsoil/overburden.**		Mile	0.23	3,000	$ 690.00
	0.25	Construct t-turnaround		L.S.	1	200	$ 200.00
	0.25	Haul and place 45 CY pit run gravel (58.5 loose) and place on both legs of T-turnout.		CY	45	14	$ 630.00
		5256-C1 Total Maintenance					**$ 1,520.00**

W=Winter, D=Dry Summer S=Summer Normal

Prepared By Michael Jarvi
Civil Engineering Technician

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Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
			S				
4765-F	0.00-0.41	Clear, grub, and shape road to crown or outslope, to match typical drawings as directed by the Forest Service. **Conserve topsoil/overburden.**		Mile	0.41	3,300	$ 1,353.00
		4765-F Total Maintenance					**$ 1,353.00**
	Hobo Lake Timber Sale Grand Total Maintenance Plan Appraisal Estimate						**$ 8,118.00**

W=Winter, D=Dry Summer S=Summer Normal

Prepared By Michael Jarvi
Civil Engineering Technician

HOBO LAKE

ROAD MAINTENANCE PLAN/APPRAISAL NOTES

NOTE: All finished roadbeds shall be 12' as shown in the typical details for crowned roads with no ditches, 1' ditches and outsloped roads. Roads requiring ditch restoration shall be cleared and grubbed to the back of ditch line and re-graded to allow the ditch to drain.

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, or outsloped roads.

NOTE: Additional lead-off ditches may be required at road segment locations to allow for proper drainage needs and are included under typical blading and shaping requirements. 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** full working days before any work begins. Phone 1-800-482-7171.

NOTE: During hauling operations safety signs shall be placed and hauling shall not commence until all signs have been put in place as directed by the Forest Service.

NOTE: There is **15 CY of 22-A crushed aggregate** required for the entrance of FR 4760. The normal compaction factor of 130% computes to a **loose volume of 19.5 CY**. ***There is no government source available for crushed aggregate.*** Purchaser furnished material shall meet gradation requirements for the Michigan Department of State Highway Transportation Designation 22-A. Compact the aggregate by operating spreading and hauling equipment over the full width of material.

NOTE: There is **145 CY of pit run borrow** material required for road maintenance throughout the contract area. **This includes 100 CY of pit run to be spot placed as "During Haul Road Maintenance" on FR 4760** as directed by the Forest Service. The normal compaction factor of 130% for pit run computes to a **loose volume of 188.5 CY**. The material source for this project is the **North Jay Bird Pit**, located at T46N, R39W, Section 30, *unless agreed otherwise by the Forest Service.* Some pit development may be required and is considered incidental to associated items.

NOTE: There is approximately **30 CY of local borrow/excavation** identified for FR 4760. Road work designating local excavation on this sale shall be built to conserve and redistribute topsoil to help prevent erosion after excavation has occurred.

NOTE: High density polyethylene drainage pipes shall be dual walled and have a smooth interior. **Minimum cover over HDPE culverts shall be 1.5 feet**, as shown on typical drawing.