



Date: September 11, 2020

Subject: Maintenance of Cemetery Access Roads at Land Between the Lakes (LBL)

Key Points:

- Funding for roads is a shared responsibility between the Forest Service, Federal Highways Administration, State of Tennessee, and Commonwealth of Kentucky. We have approximately 465 miles of forest system roads, which include 148 miles of paved roads, 180 miles of gravel roads, and 113 miles of natural surface roads. Only 12 of these 465 miles of forest system roads on the unit have no cemetery access.
- The Kentucky Transportation Cabinet and Tennessee Department of Transportation are responsible for 120+ miles of paved roads in LBL. Resurfacing, striping, pothole repair, and roadside mowing are some of the maintenance tasks that the states perform each year on these roads. LBL has never received funding to maintain these roads.
- There are 267 known cemeteries throughout LBL. Some of the cemeteries have access off forest service system roads and others are accessed via non-system access routes. Cemeteries which are accessed off non-forest system roads do not have a direct funding source for maintenance. Many of these cemeteries are family plots which were not historically accessed by road.
- Lack of appropriate access to some cemeteries is recognized as an issue to be addressed. We repair lesser-used roads by public request as there are not enough funds to continuously maintain and grade these roads. We continue to make great strides with our responsiveness to repair requests and concerns are quickly addressed by our Heritage Program staff, including on weekends.
- Roads were not created for the traffic or type of use that we experience today. Many of the road surfaces are dirt and lack a base, and repairs can be quickly undone by rain or other weather events. In high traffic areas, some roads may require grading every year, and others may need repaired several times a year, especially after storm and ice events.
- Closure of these roads to the public is not an option due to the LBL Protection Act assuring access to the cemeteries and the need to access recreation and management areas.
- Road maintenance is performed by contract, as the unit does not own road maintenance equipment. The price of grading per mile varies on the road condition at the time of inspection and quote. As such, grading can cost between \$400-1,200+ per mile.
- \$226,520.56 was spent on road maintenance completed between October 1, 2019 and August 20, 2020. Road maintenance projects included culvert replacement, road grading, cleaning ditches, rock replacement, removal of down trees, and mowing.
- In cases of road damage caused by large storm events, we can apply for funding from the Federal Highway Administration's (FHWA) Emergency Relief for Federally Owned Roads (ERFO) Program. ERFO dollars spent October 1, 2019 to August 20, 2020 were \$1,180,378.64.



Recent Cemetery Access Roadwork at Land Between the Lakes

Completed 9/30/2019-8/27/2020

Project Date	Project Description	Road Number	Special Request to Repair	Project Cost	Cemetery Access Roads Benefitted
9/30/2019	Roadwork	147	x	**	Oakley, Ferguson Springs
9/30/2019	Roadwork	206-B	x	\$ 1,934.28	Mathis
11/4/2019	Roadwork	141		**	Higgins, Cassity
12/5/2019	Culvert work	174		**	Bethlehem
12/9/2020	Roadwork	Barnett Access	x	\$ 2,878.00	Barnett
1/3/2020	Roadwork	128	x	**	Lady
1/17/2020	Culvert work	122	x	\$ 96,112.00	Bethlehem, St Stephens
1/22/2020	Roadwork	Barnett Access	x	\$ 1,884.60	Barnett
2/21/2020	Culvert work	122	x	\$ 87,200.00	Bethlehem, St Stephens
4/7/2020	Culvert work	122	x	\$ 74,560.00	Bethlehem, St Stephens
4/14/2020	Culvert work	122	x	\$ 60,450.00	Bethlehem, St Stephens
4/16/2020	Tree removal	349	x	**	Futrell 1
4/28/2020	Paving	122	x	\$ 45,325.00	Bethlehem, St Stephens
5/11/2020	Roadwork	236	x	**	Largent
5/21/2020	Grading	120, 141, 142, 337	x	**	Smith, Higgins, Cassity
5/22/2020	Grading	166, 344, Stone 3 Access	x	**	Dixon and Stone 3
6/3/2020	Roadwork	130, 147, 144, 145	x	**	Oakley, Newby
6/23/2020	Roadwork	126	x	**	Lady
6/30/2020	Roadwork	129	x	**	Woodson Chapel
7/2/2020	Access control	136-A	x	\$ 1,020.00	Hematite
7/16/2020	Culvert work	413	x	\$ 56,260.00	Turkey Creek
7/27/2020	Roadwork	367, Champion Access	x	\$ 2,167.26	Nunn, Champion
8/3/2020	Grading	141, 142, 337	x	**	Cassity
8/7/2020	Grading	172-C1	x	**	Downs 2
8/12/2020	Roadwork	415	x	**	St. Stephens
8/29/2020	Roadwork	Champion Access	x	\$ 1,244.09	Champion
8/21/2020	Roadwork	301	x	**	Mt Pleasant
8/25/2020	Roadwork	128	x	**	Lady
8/26/2020	Sidearm mowing	100-C	x	\$ 580.30	Bullock
8/26/2020	Sidearm mowing	Pleasant Valley Access	x	\$ 693.07	Pleasant Valley
8/27/2020	Tree removal	147	x	\$ 514.56	Ferguson Spring

***If there is a cost listed, it is because the entire project benefited a road leading to a cemetery. If there is no cost, then that project was part of a larger task order that happened to include the work on the road to the cemetery.*

Road Maintenance Projects at Land Between the Lakes

Completed 10/30/2019-8/27/2020

This is not an exhaustive list- does not include projects that are upcoming or in progress.

Project Date	Project Description	Allocated, Revenue, or Emergency (ERFO) Funding	Total Project Cost
10/30/19	Labor Day Grading	Revenue	\$42,793.34
11/5/19	Roads and Trail Blanket	Allocated Roads Dollars	\$9,564.76
11/6/19	Mathes Cemetery Repairs	Revenue	\$1,934.28
11/7/19	Roads and Trails Blanket (Oakley, Mathes Cems.)	Allocated Roads Dollars	\$9,929.02
11/14/19	Road 177 Hole Repairs	Emergency (ERFO)	\$3,530.98
12/20/19	Barnett Cemetery Access	Revenue	\$1,884.16
1/30/20	Roads and Trail Blanket (Lady Cem.)	Emergency (ERFO)	\$9,603.72
2/5/20	Road 141 Repair	Emergency (ERFO)	\$13,375.24
3/18/20	Install 2 Bridge Signs	Allocated Roads Dollars	\$198.24
4/2/20	Roads and Trails Blanket	Emergency (ERFO)	\$11,998.22
4/27/20	Road 221 Bridge Material	Allocated Roads Dollars	\$14,994.20
4/30/20	Road 221 Bridge #1	Allocated Roads Dollars	\$6,467.92
4/30/20	Road 221 Bridge #2	Allocated Roads Dollars	\$5,478.08
4/30/20	Road 221 Bridge #3	Allocated Roads Dollars	\$6,467.92
4/30/20	Road 221 Bridge #4	Allocated Roads Dollars	\$5,478.08
5/14/20	Pavement Patch Old Ferry Road 117	Allocated Roads Dollars	\$3,500.00
5/18/20	Grading FS Road 167 Turkey Bay	Revenue	\$3,178.40
6/3/20	Roads and Trails Blanket (Smith, Higgins, Cassity, Dixon, Stone 3 Cems.)	Allocated Roads Dollars	\$9,997.89
6/8/20	Hematite Cemetery Access Control	Allocated Roads Dollars	\$1,020.00
6/25/20	Roads and Trail Blanket (Lady Cem.)	Allocated Roads Dollars	\$5,000.36
6/29/20	Mowing Hunt Area 2 3 4	Allocated Roads Dollars	\$6,003.00
7/8/20	Mowing Hunt Area 1	Allocated Roads Dollars	\$4,896.17
7/9/20	Grading Roads	Allocated Roads Dollars	\$10,512.04
7/9/20	Grading Roads Split 1	Revenue	\$2,928.46
7/9/20	Grading Roads Split 2	Allocated Roads Dollars	\$36.80
7/17/20	Roads and Trail Blanket (Woodson Chapel Cem.)	Allocated Roads Dollars	\$10,510.38
7/20/20	Install Road Object Markers	Allocated Roads Dollars	\$4,213.88
7/21/20	Mowing Hunt Area 5 6 7	Allocated Roads Dollars	\$9,797.17
7/31/20	Mowing Hunt Area 8 9 10	Allocated Roads Dollars	\$3,980.25
8/3/20	Grading to Cassity Cemetery	Revenue	**
8/5/20	Jones Creek Redecking Bridge	Allocated Roads Dollars	\$1,840.36
8/11/20	Mowing Hunt Area-11 12 13 14	Allocated Roads Dollars	\$6,834.33
8/14/20	415 Road Prep for Reunion (St. Stephens)	Revenue	**
8/19/20	Champion and Nunn Cemetery Access Roads Repair (Champion, Nunn, Hamilton 1, Hamilton 2 Cems.)	Revenue	\$2,167.26
8/19/20	Pleasant Valley Cemetery Access	Revenue	\$693.07
8/19/20	Bullock Cemetery Access	Revenue	\$580.30
8/19/20	Remove Tree from Ferguson Spring Cemetery Road	Revenue	\$514.56
8/25/20	Grade Lady Cemetery Road 128	Revenue	**
8/27/20	Champion Cemetery Road Part 2	Allocated Roads Dollars	\$1,244.09
Total Cost:			\$233,146.93

**If there is no cost listed, then that project was part of a larger task order that included work on the road to the cemetery.

Emergency Roadwork Projects at Land Between the Lakes

Completed 10/30/2019-8/27/2020

Projects funded with Emergency Relief for Federally Owned Roads (ERFO) dollars

Project Date	Project Description	Allocated, Revenue, or Emergency Funding	Total Project Cost
10/30/19	Road 145 Low Water Crossing	Emergency (ERFO)	\$158,548.70
11/5/19	Road 174 Culvert Work	Emergency (ERFO)	\$81,192.85
11/7/19	Energy Lake Dam Demo	Emergency (ERFO)	\$104,828.00
11/14/19	LBL Road 205 Culvert	Emergency (ERFO)	\$39,130.00
1/30/20	LBL Road 174 Prior Creek North Culvert	Emergency (ERFO)	\$45,354.00
2/5/20	Culvert 4 Bethlehem Cemetery Road 122 (Bethlehem and St. Stephens Cems.)	Emergency (ERFO)	\$96,112.00
3/18/20	Culvert 1 Bethlehem Cemetery Road 122 (Bethlehem and St. Stephens Cems.)	Emergency (ERFO)	\$60,450.00
4/2/20	Culvert 2 Bethlehem Cemetery Road 122 (Bethlehem and St. Stephens Cems.)	Emergency (ERFO)	\$74,560.00
4/27/20	Culvert 3 Bethlehem Cemetery Road 122 (Bethlehem and St. Stephens Cems.)	Emergency (ERFO)	\$87,200.00
4/30/20	Paving Road 122 (Bethlehem and St. Stephens Cems.)	Emergency (ERFO)	\$45,325.00
4/30/20	Elk & Bison Prairie Road Repair Culvert #1	Emergency (ERFO)	\$104,025.09
4/30/20	Elk & Bison Prairie Culvert #2	Emergency (ERFO)	\$42,674.91
4/30/20	Elk & Bison Prairie Culvert #2	Emergency (ERFO)	\$84,398.09
5/14/20	Road 112 Culvert	Emergency (ERFO)	\$38,035.00
5/18/20	Road 413 Turkey Creek Cemetery Culverts	Emergency (ERFO)	\$56,260.00
6/3/20	Road 144 Culvert	Emergency (ERFO)	\$62,285.00
Total Cost:			\$1,180,378.64