

Maintenance Division Summary Report for the El Dorado County Board of Supervisors



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MAINTENANCE DIVISION SUMMARY REPORT

The Department of Transportation has the responsibility for maintenance of 1,079 centerline miles of roadway. The road miles by surface type are 433 miles of AC surfaced, 586 miles of chip seal, and 60 miles unconstructed roads. We also maintain 70 miles of sidewalk.

- **Traffic Unit - Installs/Maintains/Repairs**
 - Signalized intersections
 - Sign maintenance
 - Roadway striping
 - Legends
 - Raised pavement markers
- **Bridge Crew – Installation/Maintains/Repairs**
 - Bridges (76)
 - Box culverts (100+)
 - Guardrail (37,000 ft)
 - Sidewalk (70 miles)
 - Timber wall (1,600 ft)
- **Maintenance Shop - Maintains/Repairs**
 - Construction equipment
 - Heavy vehicle
 - Fleet vehicle maintenance countywide
 - Locations are:
 - Equipment Shop - Meyers & Headington facility
 - Fleet Shop - Headington facility
- **Road Side Ditches - Maintains/Repairs**
 - Approximately 750 miles
 - Performed in winter/fall
 - Annual practice is to clean 10% per year
 - The storm water BMP restricts many of these activities due to runoff.
- **Brushing**
 - Performed in fall/winter
 - Are completed by combination of hand crews and brush movers (flail machines).
 - Annual practice is 90 miles
- **Cracksealing**
 - Performed in fall/winter
 - Annual practice is 25 miles completed per year (this is a very labor intensive project and productivity can be greatly hampered by weather conditions).
- **Unconstructed roadway grading**

- Performed in the spring
- Annual practice to re-grade 35 to 40 miles.
- Non-residential areas are generally not graded.
- Minimal locations are cleaned and lightly scraped for wildland fire evacuation routes.
- **Culverts cleaned with vector truck**
 - West Slope activities in the fall/winter
 - Tahoe basin activities in the summer along with the Erosion Control group.
 - Annual practice is 300 to 400 per year.
- **Chip Seal**
 - Prep work spring/early summer
 - Grinding/paving, asphalt patching, and/or durapatching
 - Chip Seal Application summer/early fall
 - Annual practice is 60 miles.
- **Cape Seal (Chip Seal with Slurry Seal over the top)**
 - Same time period for prep and application as above
 - Mainly used for subdivision streets
 - Annual practice (last three years) is 6 miles.

With the information provided, we estimate about 200 miles of total maintenance activities per year. Weather conditions can affect this total in any given year. Wet winters hamper most activities along with creating extra damage to substandard pavements.

Attached are a detailed summary of traffic unit responsibilities, a list of the maintained traffic signals, a summary of our major maintenance activities for fiscal year 2011/2012 and a list of County Maintained Unconstructed Roads.

Traffic Unit Summary

Striping and Sign Shop Responsibilities

- Striping (5-6 man crew)
 - 464 miles of double yellow centerline
 - 302 miles of white edge line
- Traffic Paint used on a yearly basis
 - 7750 gallons of yellow paint per year
 - 2750 gallons of white paint per year
 - 1500 gallons of black paint per year
- Signage
 - 14,822 warning, guide, regulatory and informational signs
 - Annual installations/replacement approximately 900 signs
- Fabricate new signs: guide, warning, regulatory and street name signs for new installations and new specialty signs such as the Rubicon Trail signs.
- Fabricate replacement guide, warning, regulatory, and street name signs that are knocked down by weather or by the public in traffic accidents (ranges from 1 to 4 knockdowns a week).
- Graffiti Damage
 - Clean or replace
 - Approximately 9 incidents of sign and road graffiti per year
- Brushing
 - Improve traffic sign visibility
- Stencil Paint Traffic Legends
 - Legends include “Stop Ahead”, limit lines, crosswalks and school zone crosswalks
- Raised Pavement Markers
 - 137.6 miles of raised pavement markers (RPM's) - centerline
 - Annually replace approximately 10 miles of RPM's on County roadways.
- Provide and place new layout striping and signage for various new projects and fixes throughout the County.
- Work very closely with the Traffic Superintendent and Traffic Technicians on sign placement, standards and sign/striping compliance.

Traffic Signals (One Traffic Operations Technician on Staff)

- 46 signalized intersections
 - Field all calls from the public having to do with signal timing, loop issues, bulb burn-outs, and signal questions
 - Provide oversight of the monthly/annual signal maintenance contract with Republic ITS. Respond to 24/7 call-outs for signal maintenance and damage.
 - Review signal plans and specifications for CIP and Developer projects.
- Provide inspection services for Caltrans and County on CIP projects.
- Vandalism
 - Annual incidents average less than five incidents per year
 - Attempted copper wire thefts, flashing beacon vandalism and various graffiti on signal cabinets.
- Vehicular Accidents
 - Annual incidents average less than five incidents per year
 - One signal “B” pole knockdown in May 2011 to date
- The Traffic Signal unit has replaced approximately 17 signal battery back-up systems at various signals in the last year.

County Maintained Traffic Signals

1. Cameron Park Dr @ Coach Ln
2. Cameron Park Dr @ La Canada Dr
3. Cameron Park Dr @ Meder Rd
4. Cameron Park Dr @ Oxford Rd
5. Cameron Park Dr @ Palmer Dr
6. Durock Rd @ Business Dr
7. El Dorado Hills Blvd @ Harvard Wy
8. El Dorado Hills Blvd @ Lassen Ln/Serrano Pkwy
9. El Dorado Hills Blvd @ Olson Ln
10. El Dorado Hills Blvd @ Park Dr
11. El Dorado Hills Blvd @ Saratoga Wy
12. El Dorado Hills Blvd @ St Andrews/Governor Dr
13. El Dorado Hills Blvd @ Wilson Blvd
14. Francisco Dr @ Green Valley Marketplace
15. Francisco Dr @ Village Center Dr
16. Green Valley Road @ Bass Lake Rd/Alexandrite Dr
17. Green Valley Road @ Cambridge Rd
18. Green Valley Road @ Cameron Park Dr/Starbuck Rd
19. Green Valley Road @ El Dorado Hills Blvd/Salmon Falls Rd
20. Green Valley Rd @ Francisco Dr
21. Green Valley Rd @ Miller Road/Browns Ravine Rd
22. Green Valley Rd @ Mormon Island Dr

- 23.Green Valley Rd @ North Shingle Rd
- 24.Green Valley Rd @ Pleasant Grove Middle School
- 25.Green Valley Rd @ Silva Valley Pw/Allegheny Rd
- 26.Green Valley Rd @ Sophia Pw
- 27.Latrobe Rd @ Golden Foothill Pw (N)
- 28.Latrobe Rd @ Golden Foothill Pw (S)
- 29.Latrobe Rd @ Investment Bl
- 30.Latrobe Rd @ Suncast Ln
- 31.Latrobe Rd @ Town Center Bl
- 32.Latrobe Rd @ White Rock Rd
- 33.Missouri Flat Rd @ El Dorado Rd
- 34.Missouri Flat Rd @ Forni Rd
- 35.Missouri Flat Rd @ Golden Center Dr
- 36.Missouri Flat Rd @ Mother Lode Dr
- 37.Missouri Flat Rd @ Plaza Dr
- 38.Mother Lode Dr @ French Creek Rd
- 39.Pioneer Tr @ Black Bart Av/Cold Creek Tr
- 40.Silva Valley Pw @ Harvard Wy
- 41.Silva Valley Pw @ Serrano Pw
- 42.South Shingle Rd @ Durock Rd
- 43.White Rock Rd @ Post St
- 44.White Rock Rd @ Stonebriar Dr
- 45.White Rock Rd @ Valley View Pw
- 46.White Rock Rd @ Windfield Wy

Major Maintenance Activity Summary

48107 – Completed Brushing Projects for FY 11/12

West Slope

	<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1.	Ponderosa Way	02/02/11	0.37 Miles
2.	Caldor Road	02/04/11	2.70 Miles
3.	Icehouse Road	02/10/11	1.90 Miles
4.	Mameluke Hill Road	02/10/11	1.10 Miles
5.	White Meadows Road	02/07/11	0.50 Miles
6.	Wild Chaparral Drive	02/10/11	0.60 Miles
7.	Meadowbrook Road	06/07/11	0.41 Miles
8.	Cherry Acres Road	08/03/11	1.75 Miles
9.	Crystal Springs Road	02/01/11	1.30 Miles
10.	Garden Valley Road	11/08/11	3.56 Miles
11.	Fairplay Road	12/22/11	4.40 Miles
12.	Diana Street	06/07/12	0.41 Miles
13.	Fleet Court	06/13/12	0.04 Miles
14.	Foothill Drive	06/06/12	0.37 Miles
15.	Gold Hill Road	04/24/12	1.70 Miles
16.	Green Valley Road	03/23/12	8.08 Miles
17.	Hassler Road	05/01/12	1.69 Miles
18.	Hillcrest Drive	06/14/12	0.51 Miles
19.	Jacquier Road	05/01/12	0.96 Miles
20.	Jane Drive	06/07/12	0.08 Miles
21.	Judy Drive	06/08/12	0.26 Miles
22.	Knight Lane	06/19/12	0.36 Miles
23.	Knights Court	06/19/12	0.03 Miles
24.	Maryetta Court	06/13/12	0.07 Miles
25.	Mining Brook Road	04/30/12	0.65 Miles
26.	North Canyon Road	01/17/12	4.26 Miles
27.	Oxford Road	05/09/12	0.81 Miles
28.	Patterson Way	06/15/12	0.69 Miles
29.	Pomo Court	06/14/12	0.06 Miles
30.	Baker Road	04/04/12	0.36 Miles
31.	Bayne Road	09/19/12	2.54 Miles
32.	Bear Creek Road	01/30/12	2.41 Miles
33.	Reddick Court	06/18/12	0.09 Miles
34.	Reddick Way	06/18/12	0.19 Miles
35.	Ridge Drive	06/05/12	0.46 Miles
36.	Ridgeview Drive	06/20/12	1.23 Miles

37.Rock Creek Road	04/02/12	1.40 Miles
38.Rolls Drive	06/14/12	0.24 Miles
39.Roxana Street	04/05/12	0.34 Miles
40.Royal Park Drive	06/12/12	0.90 Miles
41.Ruth Court	06/13/12	0.06 Miles
42.Scenic Drive	06/05/12	0.13 Miles
43.Sudbury Road	05/09/12	0.63 Miles
44.Tulle Lane	06/06/12	0.13 Miles
45.United Drive	06/11/12	0.21 Miles
46.Waverly Drive	06/13/12	0.44 Miles
		Total: 51.38 Miles

East Slope

	<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1.	Crystal Springs Road	01/31/11	0.70 Miles
2.	Lake Tahoe Boulevard	01/20/11	0.20 Miles
3.	Apache Avenue	12/09/11	1.10 Miles
4.	Pioneer Trail	01/11/12	1.00 Miles
5.	Elks Club Drive	01/12/12	0.70 Miles
6.	Grass Lake Road	01/13/12	0.50 Miles
7.	S Upper Truckee Road	01/19/12	0.30 Miles
			Total: 4.50 Miles

48104 – Completed Crack Sealing Projects for FY 11/12

West Slope

	<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1.	Mother Lode Drive	01/28/11	2.70 Miles
2.	Aberdeen Lane	12/02/11	1.20 Miles
3.	Shingle Springs Drive	12/07/11	0.20 Miles
4.	Cedar Ravine Road	12/19/11	4.53 Miles
5.	Green Valley Road	12/29/11	4.80 Miles
6.	Grizzly Flat Road	01/13/12	6.55 Miles
7.	Cold Springs Road	03/08/12	3.70 Miles
8.	Carson Road	03/12/12	1.26 Miles
			Total: 24.94 Miles

East Slope

	<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1.	Powers Drive	11/29/11	0.70 Miles
2.	Portal Drive	02/23/12	0.10 Miles
3.	Pioneer Trail	04/25/12	23.96 Miles
4.	S Upper Truckee Road	05/07/12	3.80 Miles
			Total: 28.56 Miles

48108 - Completed Ditching for 2011 and 2012

West Slope

	<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1.	Luneman Road	01/07/2011	2.90 Miles
2.	Meadowbrook Road	06/13/2011	1.32 Miles
3.	El Dorado Road	12/20/2011	0.50 Miles
4.	Fairplay Road	03/13/2012	1.50 Miles
5.	Fairplay Road	06/15/2012	4.40 Miles
			Total: 10.62 Miles

48127 – Completed Durapatching Projects for FY 11/12

West Slope

	<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1.	Portillo Court	09/27/11	0.10 Miles
2.	Pasada Road	09/28/11	0.20 Miles
3.	United Drive	10/06/11	0.21 Miles
4.	El Tejon Road	10/20/11	0.10 Miles
5.	Estepa Drive	10/20/11	0.25 Miles
6.	Penosbscot Road	10/24/11	0.05 Miles
7.	South Shingle Road	10/26/11	1.90 Miles
8.	Chelsea Road	10/31/11	0.50 Miles
9.	Memory Lane	10/31/11	1.30 Miles
10.	Alhambra Drive	11/14/11	0.15 Miles
11.	Fleet Court	06/26/12	0.04 Miles
			Total: 4.80 Miles

48105 - Completed Grading for Years 2011 and 2012

West Slope - 2011

<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1. Bear Creek Road	04/18/11	1.54 Miles
2. Breedlove Road	05/09/11	2.22 Miles
3. Caldor Road	05/02/11	2.69 Miles
4. Cedarville Road	05/27/11	0.72 Miles
5. Cosumnes Mine Road	05/05/11	3.83 Miles
6. Farnham Ridge Road	06/06/11	5.38 Miles
7. Happy Valley Road	05/06/11	0.78 Miles
8. Indian Diggins Road	05/26/11	3.26 Miles
9. Mameluke Hill Road	05/25/11	1.10 Miles
10.Mt Murphy Road	05/11/11	1.40 Miles
11.Sand Ridge Road	04/27/11	3.65 Miles
12.Sciaroni Road	05/11/11	2.36 Miles
13.Sweeney Road	05/05/11	2.47 Miles
14.Tullis Mine Road	04/12/11	0.22 Miles
Total: 31.62 Miles		

West Slope - 2012

<u>Road Name</u>	<u>Date Completed</u>	<u>Mileage</u>
1. Bear Creek Road	04/18/12	1.54 Miles
2. Breedlove Road	05/04/12	2.22 Miles
3. Caldor Road	05/10/12	2.69 Miles
4. Cosumnes Mine Road	05/04/12	3.83 Miles
5. Indian Diggins Road	05/04/12	3.26 Miles
6. Leoni Road	05/10/12	0.53 Miles
7. Mameluke Hill Road	05/01/12	1.10 Miles
8. Mt Murphy Road	04/25/12	1.40 Miles
9. Sand Ridge Road	05/10/12	3.65 Miles
10.Sciaroni Road	05/04/12	2.30 Miles
11.Sweeney Road	05/10/12	2.47 Miles
Total: 24.99 Miles		

County Maintained Dirt Roads

West Slope

<u>County Road #</u>	<u>Road Names</u>	<u>Mileage</u>
1. 46	Bear Creek Road	1.73 Miles
2. 14	Big Canyon Road	0.58 Miles
3. 112	Breedlove Road	2.22 Miles
4. 121	Cable Road	5.44 Miles
5. 118	Caldor Road	2.69 Miles
6. 96	Cedarville Road	0.72 Miles
7. 877	Cosumnes Mine Road	3.83 Miles
8. 93	Farnham Ridge Road	5.38 Miles
9. 858	Fort Jim Ct	0.08 Miles
10.42	Goose Flat Road	0.29 Miles
11. 80	Happy Valley Road	3.19 Miles
12. 92	Indian Diggins Road	3.26 Miles
13. 103	Leoni Road	0.53 Miles
14. 111	Mameluke Hill Road	1.10 Miles
15. 60	Mosquito Road	6.95 Miles
16.75	Mt Murphy Road	1.40 Miles
17. 41	Russell Hollow Road	0.65 Miles
18. 82	Sand Ridge Road	3.65 Miles
19. 124	Sciaroni Road	3.28 Miles
20.17	South Shingle Road	1.39 Miles
21. 1862	South St	0.09 Miles
22. 105	Sweeney Road	2.47 Miles
23.125	Tullis Mine Road	0.22 Miles
24.2232	County Road 2232	0.07 Miles
25. 45A	County Road 45A	0.08 Miles
26. 1861	Oriental St	0.07 Miles
27. 88	Park Creek Road	6.37 Miles

Total: 57.73 Miles

East Slope

<u>County Road #</u>	<u>Road Names</u>	<u>Mileage</u>
1. 1850	Tamarack Ave	0.11 Miles
2. 2005	Tamarack Ct	0.03 Miles
3. 1852	Hemlock Ave	0.11 Miles
4. 1854	Phillips Heights Ave	0.11 Miles

Total: 0.36 Miles