MENDOCINO COUNTY

"Twenty-Year Corrective Maintenance Plan"

https://www.mendocinocounty.gov/departments/transportation/currentprojects

Year 8 & 17 of "Twenty-Year Corrective Maintenance Plan"

Year 8 (2026-27): 26+/- miles chip seal as a pavement preservation strategy. Deep dig outs of all base failures. (Total 25.6 miles program \$5.57 million)

County Road Name	Beginning MP	Ending MP	<u>Total Length</u>	<u>PCI</u>	<u>ADT</u>
Casper Road, CR 569	0.00	0.94	0.94	68	2,562
Casper Street, CR 410E	0.00	0.27	0.27	18	
Fern Creek Road, CR 411A	0.00	4.00	4.00	48	1,198
Caspar Little Lake Road, CR 409	0.00	4.00	4.00	70	
Caspar Orchard Road, CR 410	0.00	0.95	0.95	39	
Point Cabrillo Drive, CR 564	0.00	2.92	2.92	81	762
Comptche Ukiah Road, CR 223	10.00	22.52	12.52		1,152

Year 17 (2035-36): Chip seal treatments of 25 +/- miles of salvageable road segments in a pavement preservation strategy. CIP treatment with chip seal of 10 +/- miles of roads segments with delimited layers of oxidized asphalts and chip seals where emulsion and grinding is effective. Deep dig outs of all base failures. (Total 34.71 miles program \$7 million)

County Road Name	Beginning MP	Ending MP	<u>Total Length</u>	<u>PCI</u>	<u>ADT</u>
Lansing Street, CR 500	0.00	0.94	0.94	68	2,562
Point Cabrillo Drive, CR 564	0.00	2.92	2.92	81	762
Clark Street, CR 407Q	0.00	0.27	0.27	18	
Little Lake Road, CR 408	0.00	4.00	4.00	48	1,198
Gualala Road, CR 501	0.00	1.77	1.77	60	244
Old Stage Road, CR 502	0.00	5.72	5.72	56	1,210
Old State Highway, CR 501A	0.00	0.67	0.67	87	1,468
Eureka Hill Road, CR 505	0.00	9.34	9.34	44	221
Ten Mile Road, CR 506	0.00	5.99	5.99	64	500
Pacific Woods Road, 524	0.00	1.44	1.44		
Stoneboro Road, CR 570	0.00	1.65	1.65	29	92

RMRA Project Implementation





- Preventative Maintenance work done sooner saves good roads.
- More Corrective Maintenance on main roads with higher traffic or urban setting.
- Transportation needs in order of importance:
 - Traffic Safety
 - System Maintenance and Preservation RMRA Road Maintenance and Rehabilitation Account
 - System Completion (providing improvements on major roadways) 3Rs - Rehabilitate, Restore, and Resurface
 - Congestion Relief
 - System Expansion

What to do with Added Gas Tax? New Pavement







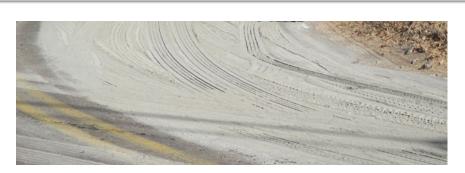
New AC:

- improves rideability
- has a 20 year plus life
- with pavement preservation treatments along the way, we can likely get 40 years of life before complete AC replacement is needed
- Hot cools fast; less than an hour to drive.

Asphalt Concrete (AC) overlay @ 0.3' - \$0.5 million per mile is the most common before 2000

New Additional Gas Tax for a New Approach – Recycle in Place





- Spread some cement to grind into old road surface & aggregate base rock (AB)
- 2. Grind down 4 to 6 inches, adding water
- 3. Grade, level, and compact







1st 5 years of Mendocino County Preventative Maintenance



Micro Seal - Cape Seal

- A single to multi-layer application(s)
 of emulsion mixed with aggregate
- First layer a slurry seal of emulsion and sand to fill large cracks
- Middle layer(s) rubberized chip (crushed rock coated in oil and melted rubber) or "seal layer" (wearing surface)
- Last layer fog seal of thick black emulsion
- This treatment is hoped to last approximately 15 years
- Slower to dry (break)... one lane closed
- \$100k per mile depending on number of layers

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Chip Seal has been the standard on Mendocino County surfaced roads 90% through history – before 1990s MCDoT averaged 100 miles per year – today, Chip Seal: \$50k/mile





Emulsion (cold) dries slower



Compact pneumatic roller



New wearing surface – ride is the same

Mendocino County Chip Seals Corrective/Preventative Maintenance

Preserve a fair to good road with Preventative Maintenance "Chip Seal" only OR Perform Corrective Maintenance with recycle grind topped off with "Chip Seal"

Chip Seals are a "poor" county's surfacing, but inspection must keep us in the Goldilocks range



Too much chips

Adding a cape seal over the top adds 10% cost and makes it black but does not correct ride.

Additional Information- Questions?

- Save California Streets <u>www.savecaliforniastreets.org</u>
- MCDoT Web Page:

https://www.mendocinocounty.gov/departments/transportation

Or did I put you to sleep?

