

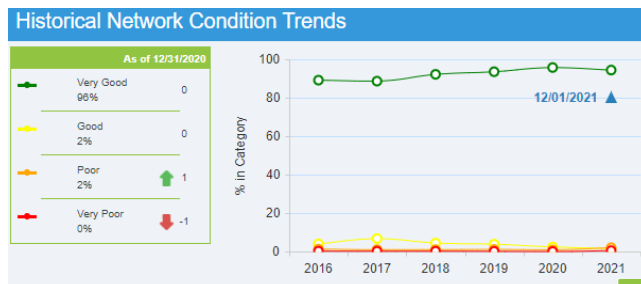
# Memorandum

To: Board of Commissioners  
From: Eric W. Shanley, P.E., Director of Highways  
Date: December 2021  
Re: 2021 End of Year Report, 2022 Forecast

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Major contract road work completed in 2021 included pavement overlays on Government Way, Strahorn, Dodd, Foxborough, Ohio Match, Clagstone, Parks and Lewellen Creek. The contracted work included placing approximately 23,300-tons of asphalt on approximately 13.76-miles of road at a completed construction contract amount of approximately \$2.2 million dollars.

2021 road work completed by District Forces included approximately 17-miles of chip sealing and 1.8-miles of double shot bituminous surface treatments (BST) to gravel roads. The Districts work this year reduced our gravel road miles to approximately 3.41-miles, down from 33-miles in 2011 and 40-miles in 2006. Additional work completed by the District included a local participation project on Howard Road, constructing 1.4 miles of new road that ultimately completed a network connection to Perimeter Road. The District provided the aggregate for this new connection.

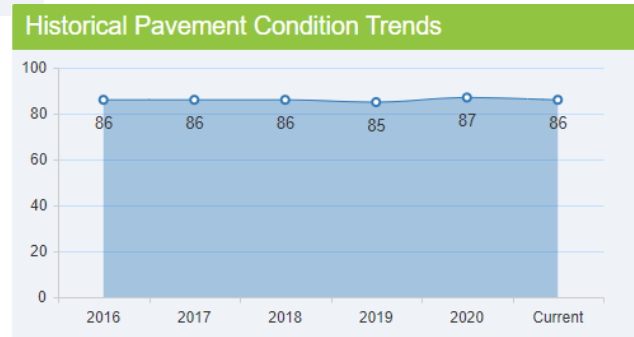


Based on current pavement assessments and work completed in 2021, the District's Average Network Pavement Condition remains in the Very Good Condition, with over 90% of the roads considered in the Very Good Condition.

This while Historical Pavement Condition Trends continue to react to planned treatments

as described in our State of Roads Report, +/- 3 percentage points based on roads aging through treatment cycles.

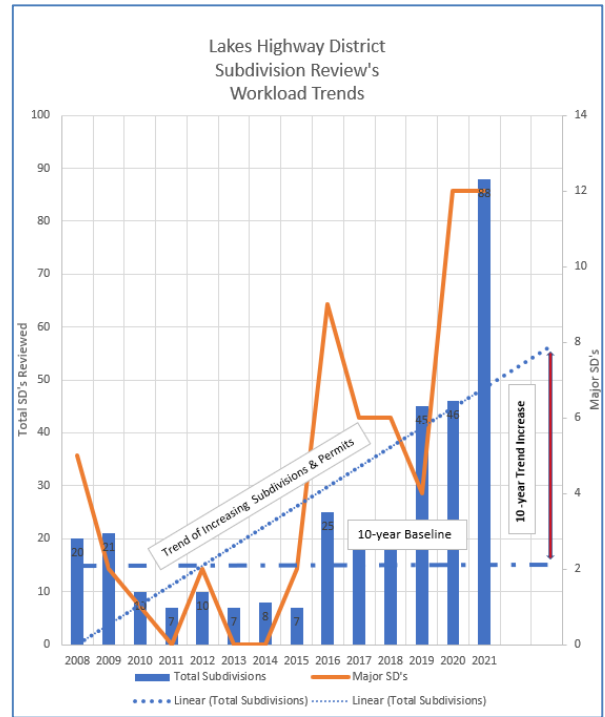
In 2021, the Districts Pavement Condition Index fluxuated within these limits, which reflects our goal of: "Keeping our good roads in good condition and applying the right treatment to the right road, at the right time. This to keep an equivalent and consistent Pavement Condition Index on District Roads."



Other significant improvements this year included completion of the Federal Aid Ramsey, BNSF, Chilco to Scarcello Grade Separation Project and the Western Federal Lands, Bunco Road Overlay. Current estimates on both Federal Aid Projects, appear to show that the projects were completed under budget and the District should expect a refund on its Federal Aid contributions. As the Federal Aid Managers on these projects complete their closeout, the District will be notified of the final reimbursements and when those will be released back to the District.

Administratively, the Districts work is continuing to experience a significant increase in permitting, subdivision platting and engineering reviews. Construction oversight of new subdivision roads and the associated building permits from new home construction increased again 2021. In 2021 the District reviewed plats, subdivision roadway design, performed construction inspections are various stages of completion on 12 Major Subdivisions, 67 Minor Subdivisions and several additional that haven't been formally submitted. The increase in subdivisions this year represent a 72% increase over last year. The following is a graphical representation of the subdivision trend over the past 10-years.

This year the District processed more than 612-Building Permit Applications, 230-Approach Permits, 175 Right-of-way Permits and 53-Site Disturbance Permits. It's important to recognize that each of these items will typically require a different level of effort.



From an on-going and current maintenance standpoint, the District began preparing for winter operations in October of this year, with its first snowplow effort on November 19th. Preparation for the first event began the first week of October starting with winterizing specialty equipment, installing de-icer systems, sanders and snow wings. Our current snow fighting equipment and routes for this season consists of 10-plow trucks on 8-routes, 6-medium duty de-icer truck plows on 4-routes and 3-graders on 2-routes. Each of our 10-plow trucks are equipped with wings and we have 8-sanders. We also use 2-dump trucks and 550-trucks (w/o sanders & de-icers) that are used to haul trees and other debris that accumulate during storm events.

Looking ahead towards 2022 there are several major construction projects planned, including approximately 30-miles of chip sealing and contracted construction work on the Spirit Lake Road, Hudlow, Grand Tour and Nunn Road. This District is also involved with work at the Ramsey and SH53 Signal replacement project schedule for this next season. Other on-going design projects include: The Old Hwy 95 Bridge, Cape Horn, Chilco and Ohio Match Guard Rail Projects, and the Parks Road Interchange Project.