# PAVEMENT PRESERVATION PROGRAM

BOMA WORK SESSION OCTOBER 08, 2019



# Meeting Overview

- What is Pavement Preservation
- City's Paving Program History and Overview
- Roadway Analysis
- Report / Methodology
- Example Project
- Considerations and Challenges
- Q&A



### What is Pavement Preservation?

- Pavement Preservation represents a proactive approach in maintaining our existing roads.
- https://savemyroad.com/pavement-preservation/

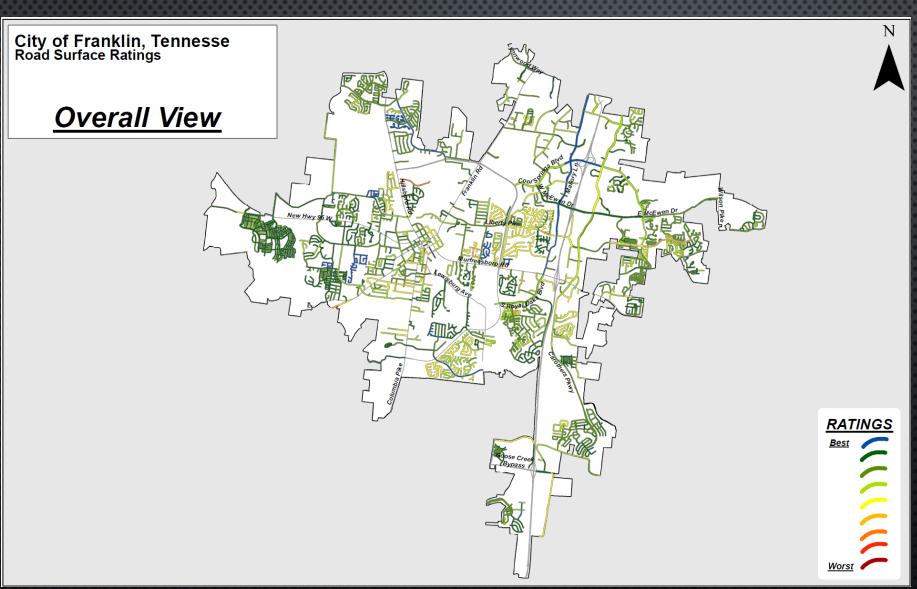


# Paving History / Overview

- Annual Paving Contracts for Mill and Fill/Overlay are EXPENSIVE!
- Worst First! Roads are touched/paved once or twice in their useful life span.
- Recent Years Street Dept. began looking in to ways to stretch their paving budget (Capital bonding helped immensely). HA-5 mineral bond (fog seal) for last 3 years.
- Spring 2019 Streets and Engineering met with pavement professionals to discuss ways to extend the life of our roadway network.
- Civil-Link, LLC Roadway Analysis, Pavement Preservation Program Plan, and Website Hosting

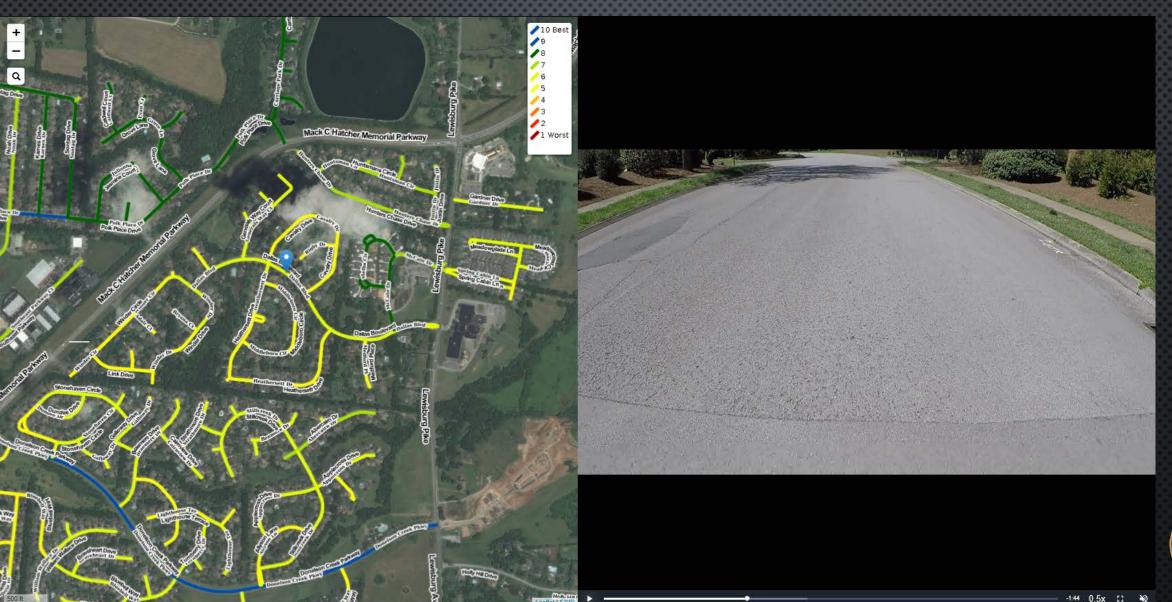


# Roadway Analysis https://app.civil-link.com/franklin/streets





# Roadway Analysis – Web Hosting





# Report / Methodology



#### Road Maintenance and Improvements Plan City of Franklin, TN

July 2019

#### Civil-Link, LLC

5779 Getwell Road, Building B, Southaven, MS 38672 (662) 510-2169 www.civil-link.com

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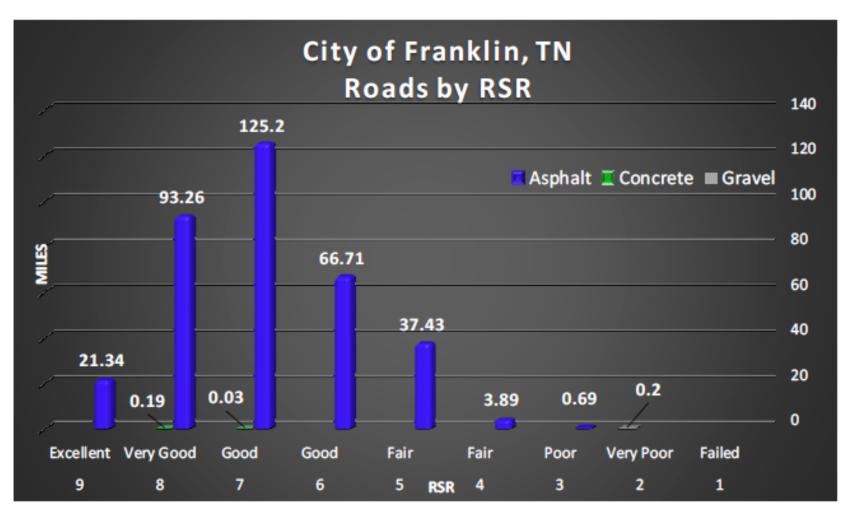
#### **APPENDICES**

Appendix A - PASER Scale Appendix B - Treatment Descriptions

Appendix C - Priority Lists



# Report / Methodology







# Example Project

https://roadresource.org/network/lc\_calc

Inflation/CPI

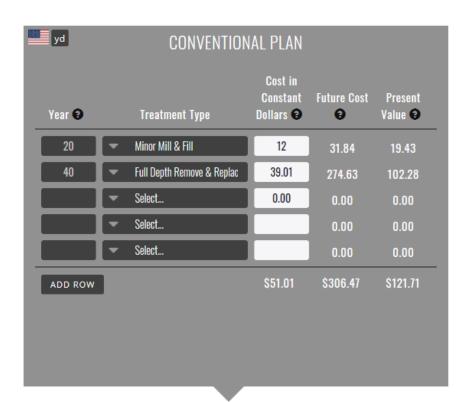
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**Interest Rate** 

2.5 %

Total Paved Area

63330 SY



	OPTIMIZED PLAN				yd
Year 😉		Treatment Type	Cost in Constant Dollars ②	Future Cost	Present Value ②
4	~	Crack Seal	0.48	0.58	0.53
4	7	Fog Seal	0.57	0.69	0.63
10	7	Scrub Seal	2.26	3.68	2.88
10	7	Slurry Seal	2.12	3.45	2.70
17	7	Cape Seal	5.20	11.92	7.83
25	7	Micro Surfacing- Single Lift	2.77	9.38	5.06
32	7	Micro Surfacing- Single Lift	2.77	13.20	5.99
40	7	Base Stabilization + 4" HMA	25.09	176.63	65.78
ADD ROW			\$41.26	\$219.53	\$91.40

Net Present Value: \$121.71 / SY Total Life Cycle Cost: \$7,707,894 Net Present Value: \$91.40 / SY
Total Life Cycle Cost: \$5,788,362



#### Future Pavement Preservation Considerations

- It will be a learning lesson for all of us.
- Weather impacts or unexpected subgrade issues
- Utility Upgrade Work/Coordination
- Future annual paving contracts vs "projects"
- History of HA-5 fog seal
- Church Street thin lift
- Funding history State Aid Fund and CIP Bonding
- ADA upgrades Older neighborhoods coming up for paving have non compliant ADA ramps
- CIP funding for neighborhoods with multitude of ADA upgrades?



#### **QUESTIONS?**

THANK YOU FOR YOUR TIME, ATTENTION, AND PARTICIPATION!

