ROADS: Long Term Planning





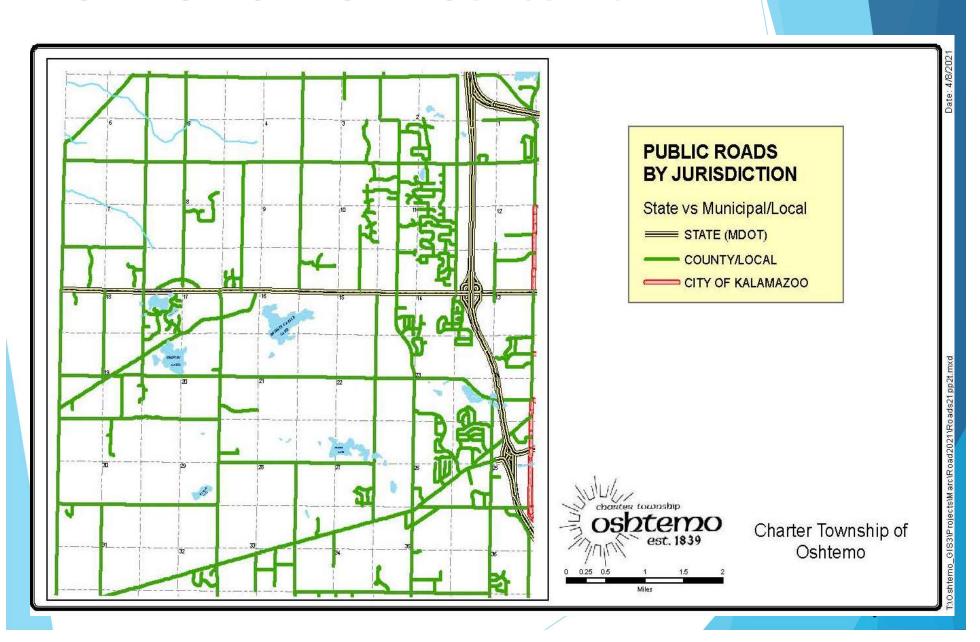
OUTLINE

- Whose roads are which roads?
- Protecting our investment: Asset Management
- What is being done? Annual Preventative Maintenance
- When to preform work? Timing vs Condition
- Why does it matter? What is the goal?



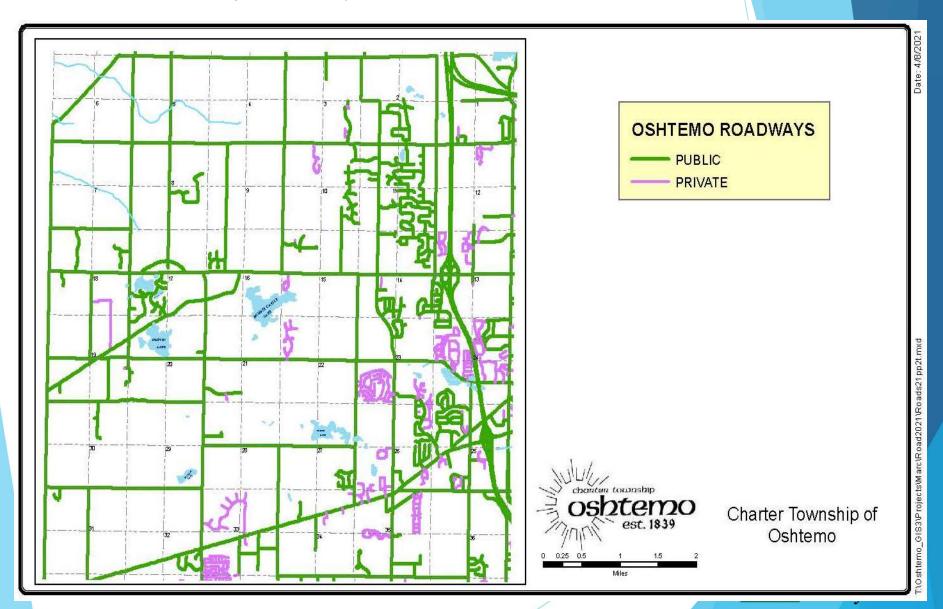


PUBLIC ROADS in Oshtemo



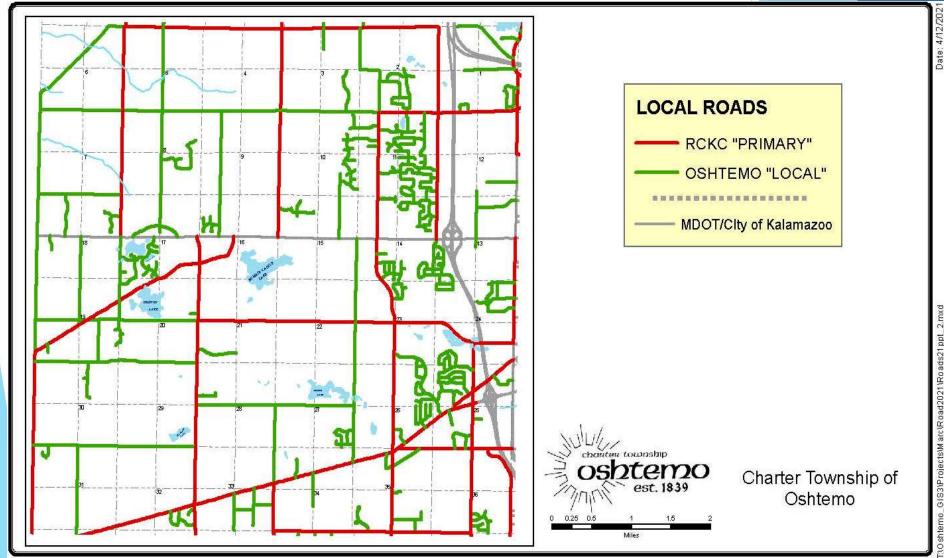
PRIVATE ROADS in Oshtemo

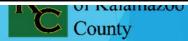
Resident/HOA responsibility



LOCAL ROADS in Oshtemo

Township Responsibility (in partnership with RCKC)





WHAT IS ASSET MANAGEMENT?

Asset / 'aset/ (noun): a useful or valuable thing, person, or quality

+

Management / 'manijment/ (adjective): directing and controlling a system to reach a goal

=

"knowing what you have, knowing its condition and trying to preserve it efficiently and effectively for generations..."
Source: RCKC

Improved:

- service to customers
- cost-effectiveness & use of available resources
- credibility for decisionmaking





You use asset management every day autos, homes, health...

- 1st Select projects that stop or reduce damage to the asset.
- 2nd Select projects that have the potential to save money in the future.
- 3rd Select projects that add functionality or value to the asset.

Get the most out of your budget





Let's apply it to Roads... What Is TRANSPORTATION Asset Management?

"An ongoing process of maintaining, upgrading, and operating physical assets cost effectively, based on a continuous physical inventory and condition assessment"

Source: Act 499 of the Public Acts of 2002





How does it work?

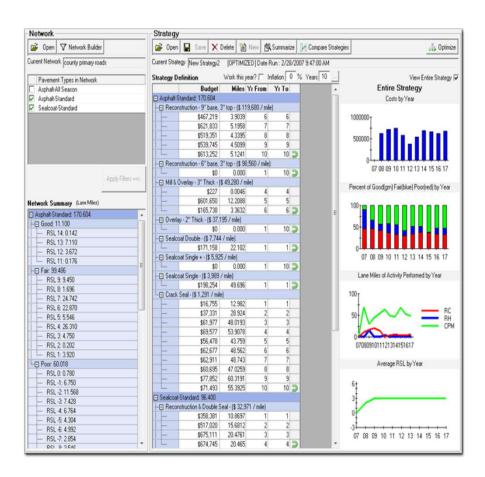


- 1. Inventory
- 2. Assess Condition
- 3. Predict future
- 4. Do the work!





1. Inventory



LOTS and LOTS of DATA

- Without DATA the Public and Elected Officials cannot make educated decisions
- Need to rely on the local road professionals
- Value in knowing what you have!
- Value in knowing how it may impact other infrastructure!





2. Assessing Condition







3. Predict future







4. Do the work

Choose approach: worst first or mix of fixes

→ Mix of fixes: Chip seal, fog seal, crack fill, seal coat

maintain surface and prevent structural damage

What destroys a pavement?

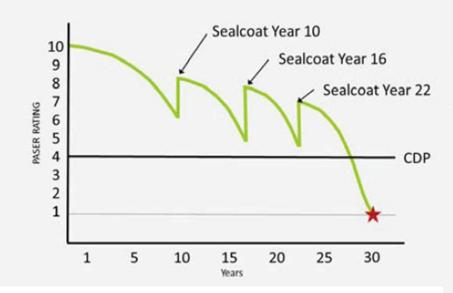
- Water weaken structure
- Traffic excess loads and volumes
- ► Environment temperature, natural elements



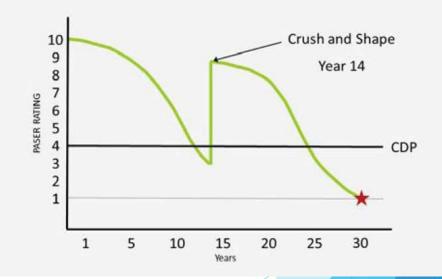


WHAT IS BEING DONE?

Sealcoat at 10, 16 and 22 (Mix of Fixes) Cost \$60,000



Rehabilitation at 14 Years (Worst First) Cost \$150,000







WHEN TO PREFORM THE WORK?

GOOD



PASER 10, 9, 8
Routine:
Crack Fill
Minor Patching

FAIR



PASER 7, 6, 5

Preventive:
Chip Seal
Hot Mix Asphalt
(HMA) Wedging
Concrete Joint Repair

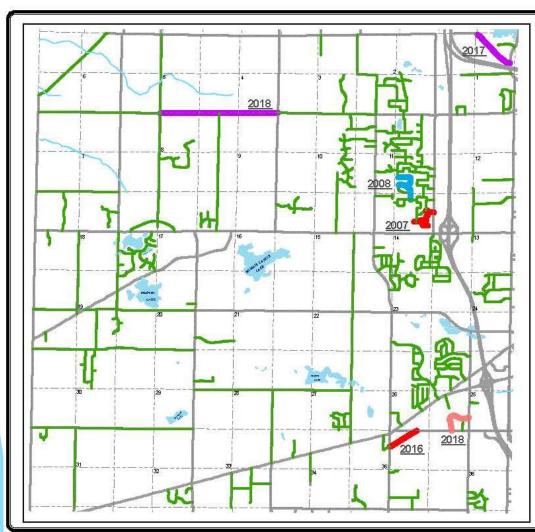
POOR

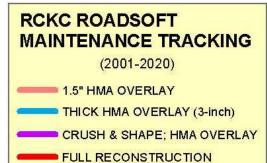


PASER 4, 3, 2, 1
Rehabilitation/
Reconstruction:
Resurface
Pulverize/HMA Paving
Replace Concrete Slab
Reconstruction









Other Local (Oshtemo)
 Non-Local (MDOT/RCKC)

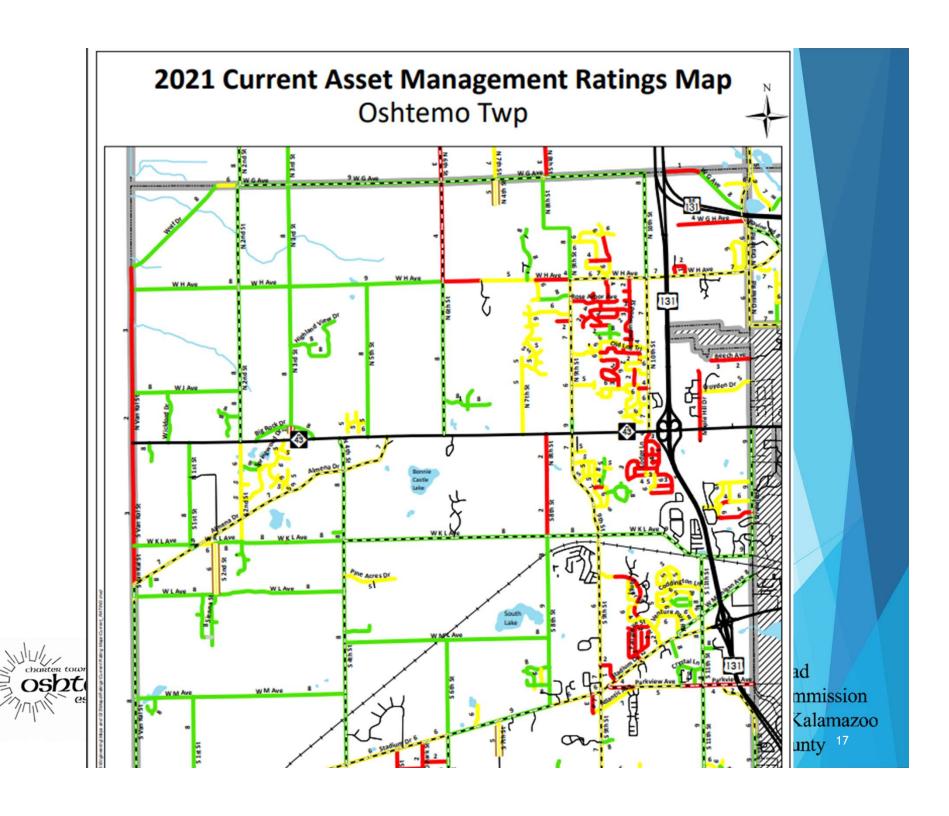


Charter Township of Oshtemo





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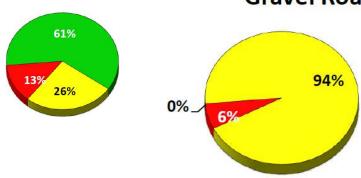


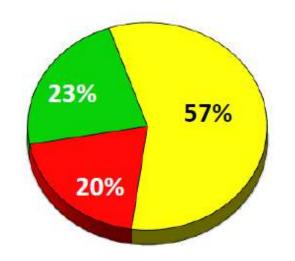
CURRENT PASER RATINGS

Primary Roads

Gravel Roads

Local Roads





GOOD: 10, 9, 8

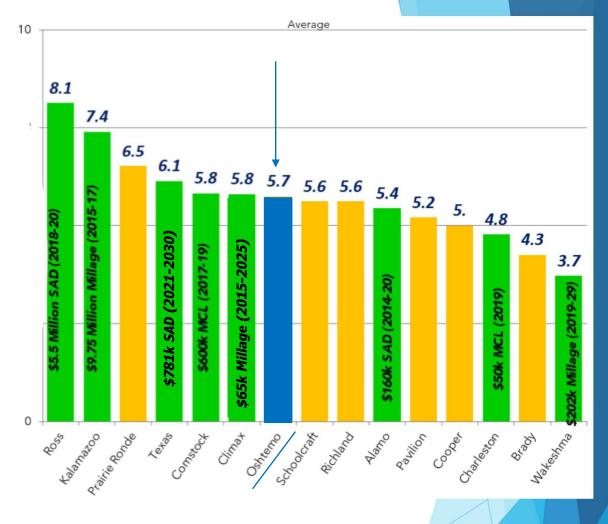
FAIR: 7, 6, 5

POOR: 4, 3, 2, 1





2020 Local Roads Average PASER Rating by Township



In the prior decade, Oshtemo had highest average.





WHY DOES IT MATTER?

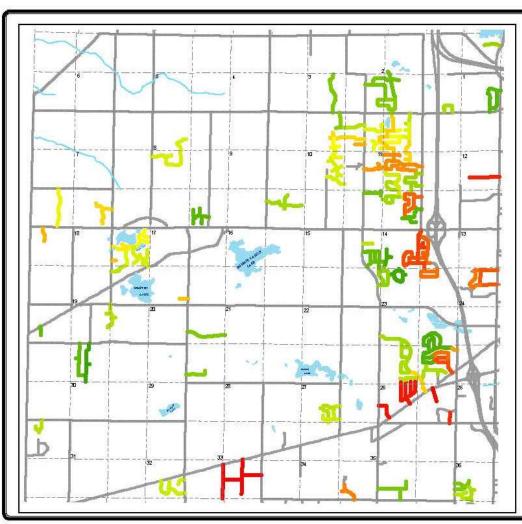
Roads eventually hit service life when preventive maintenance can no longer be useful, rehabilitation is more appropriate

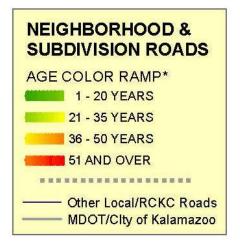
Anticipating the investment...

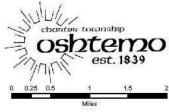


Source: Michigan Tech Transportation Institute.









Charter Township of Oshtemo





WHAT IS THE GOAL?

- Protecting Assets
- Proactive Planning
- ► Financial Stability
- Leveraging Resources
- Level of Service
- **►** Active Participation





Next steps... Takeaways...

- Mix of fixes is best result for asset management
- ► How do we complete all the preventative maintenance to keep roads in good (PASER 10-7) condition (\$\$\$\$...)
- At some point, soon, roads will reach end of useful life, need rehab/recon
- Think about:
 - Why is keeping up with roads important to Oshtemo?
 - What do residents expect in road system?
 - What impact do good or bad roads have on residents? How do good roads provide benefits to all residents? How can we influence entire transpo system (nonmotorized/complete streets)?









RCKC CONNECT

HAVE YOU SIGNED UP?

Receive Message Alerts for:

- ♦ Road Construction
- ♦ Road Closures/Detours
- ♦ General Public News



To Sign Up Visit: www.kalamazoocountyroads.com

Thank you - Questions

