

# Fixing Our Streets 2

## Slurry / Microsurfacing on Local Streets

September 2021

Todd Liles, P.E.

WE KEEP PORTLAND MOVING.



**PBOT**  
PORTLAND BUREAU OF TRANSPORTATION

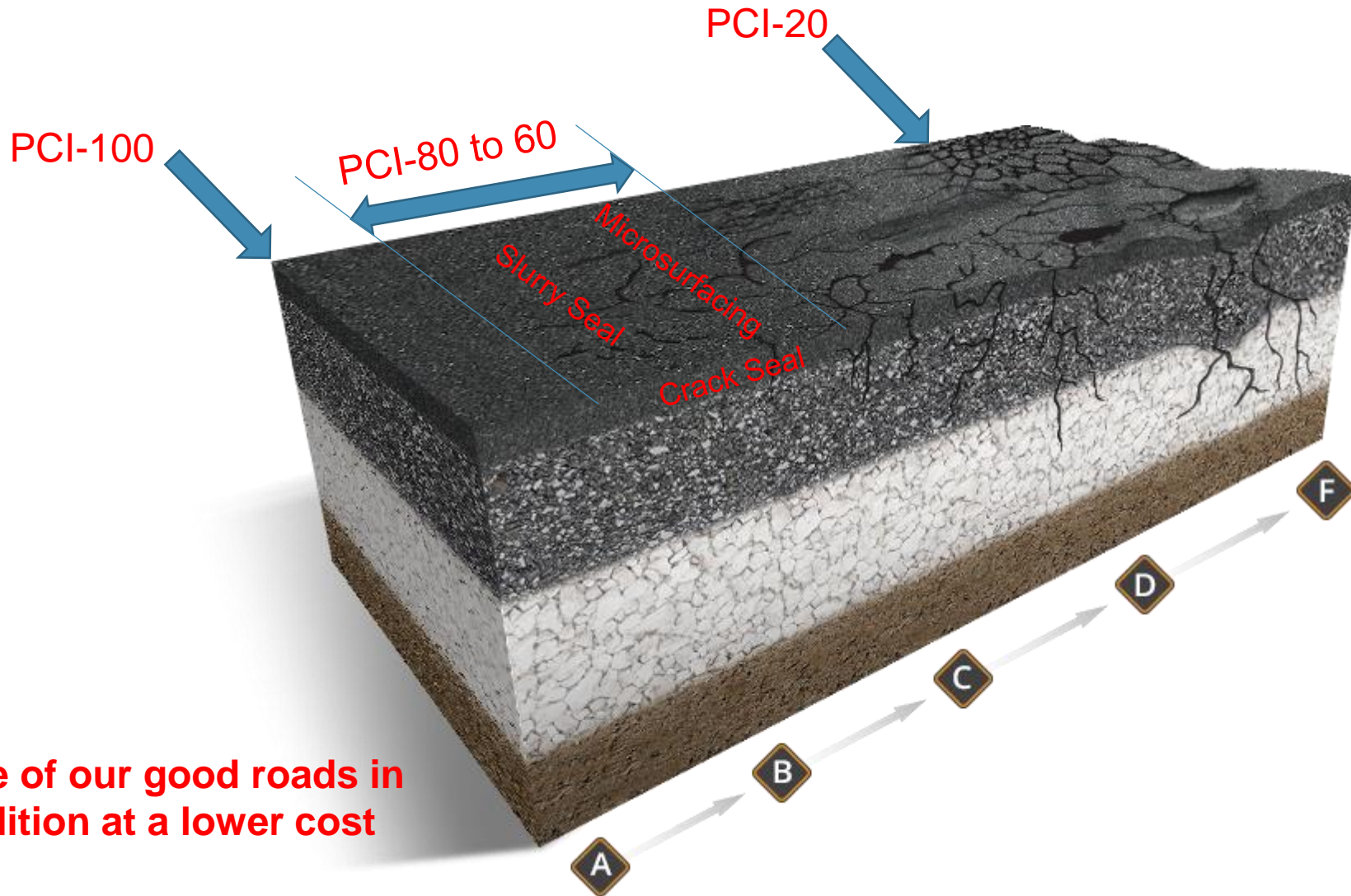
# What is Slurry Seal / Microsurfacing?

**Preventive Maintenance treatments** that seal the roadway, fills small cracks, adds skid resistance, reduces oxidation and adds longevity to pavement.

- cold application, all materials are mixed during placement.

	Slurry Seal	Microsurfacing
Liquid asphalt emulsion	Emulsified with water	Polymer-Modified
Curing process	Evaporative Break	Chemical Reaction
Thickness	1/4" to 3/8"	3/8" to 1/2"
Construction Season	Summer only	Spring / Summer / Fall
Drive upon	4 to 6 hours	1 to 2 hours
Adds Life	5 to 7 years	6 to 8 years
Cost (SY)	\$4.25	\$4.75
ADA Ramps	N/A	REQUIRED

# What streets are ready for Slurry and Microsurfacing?



**GOAL:**  
Keep more of our good roads in good condition at a lower cost



Slurry Seal (N Houghton)



Slurry Seal



Microsurfacing



Microsurfacing – N. Ida (Before)



Microsurfacing – N. Ida (after)



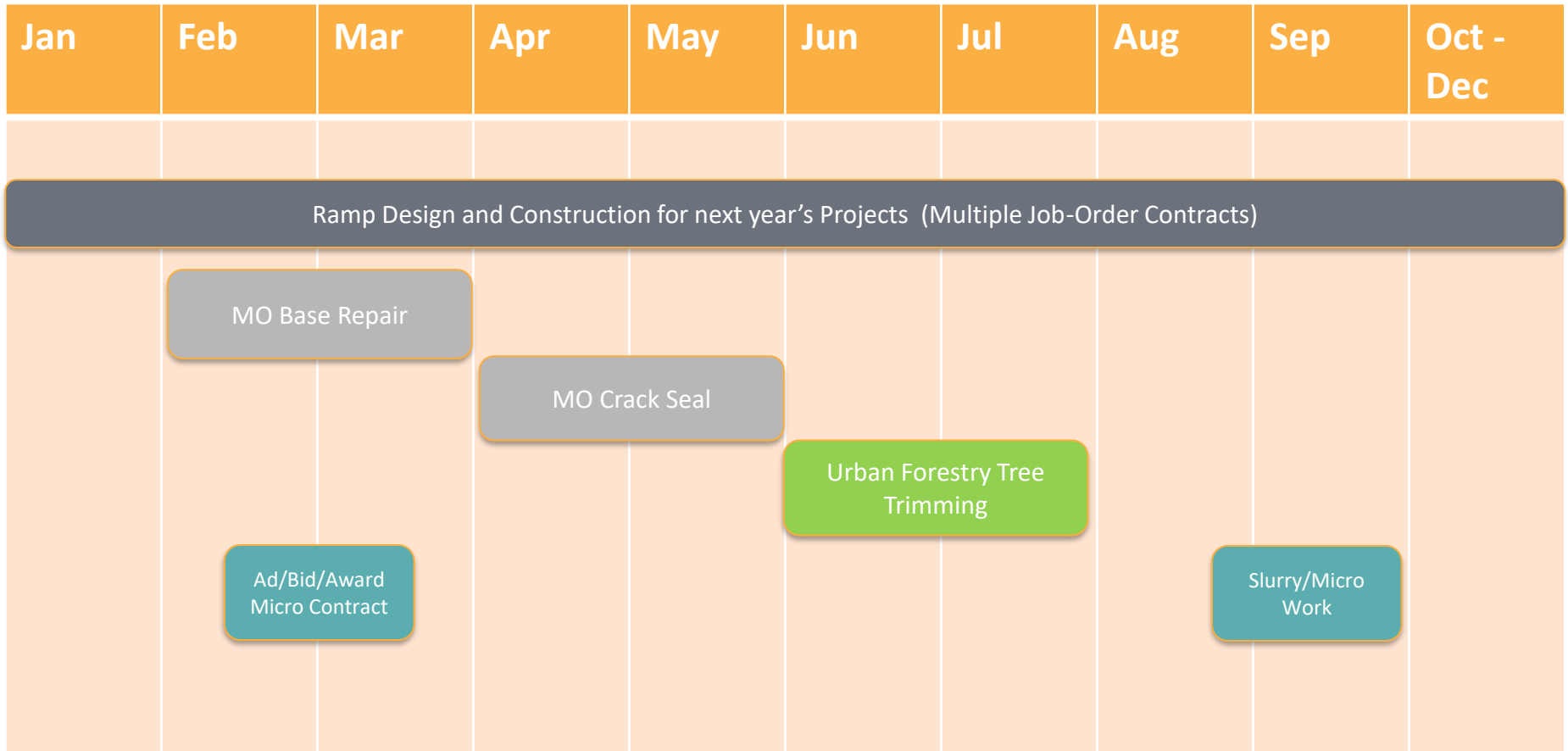


Too late - Grind it out

# 2021 – Preventive Maintenance Streets

	Street	Area	Treatment
1	N Ida Ave (N Central Ave - N Smith St)	4,185 SY	Type II Micro
2	N Houghton St (N Haven Ave - N Dana Ave)	6,860 SY	Type II Slurry
3	N Michigan (N Rosa Parks Way – N Fremont St.)	24,753 SY	Type II Micro
4	NE Alberta St (NE Cully Blvd – NE 72 <sup>nd</sup> Ave)	5,030 SY	Type II Micro
5	N Tillamook St (N Flint Ave – N Williams Ave)	1,800	Type II Micro
6	NE 138 <sup>th</sup> Ave (NE Halsey St – NE Sacramento St)	11,270 SY	Type II Micro
7	SW Bertha Blvd (SW Beaverton Hillsdale Hwy – SW Vermont St)	3,680 SY	Type II Micro
	<b>Total contract = \$460,000</b>	<b>Micro/Slurry Mix</b>	<b>5 LM</b>
	<b>Planned 5 days - Actual 8 days</b>	<b>2" Hot Mix</b>	<b>\$1.5M</b>

# Typical Schedule



## Available Contractors:

VSS International (Sac), Intermountain Slurry Seal (Reno), Doolittle Construction (Bellevue)

- Constructing ramps quickly is the critical path to accomplishing more Micro
- Most local streets have deteriorated beyond a slurry seal treatment
- Ideal to find many streets close together in a neighborhood to avoid long travel
- Slurry/Micro is not a viable treatment for concrete streets
- These techniques are THE most important treatment we can be doing to preserve our local roads

# Preservation Treatments

- Preserve asset condition
- Maximize return on investment
- Minimize asset failure

