

City of Pueblo 2023 Street Assessment Report



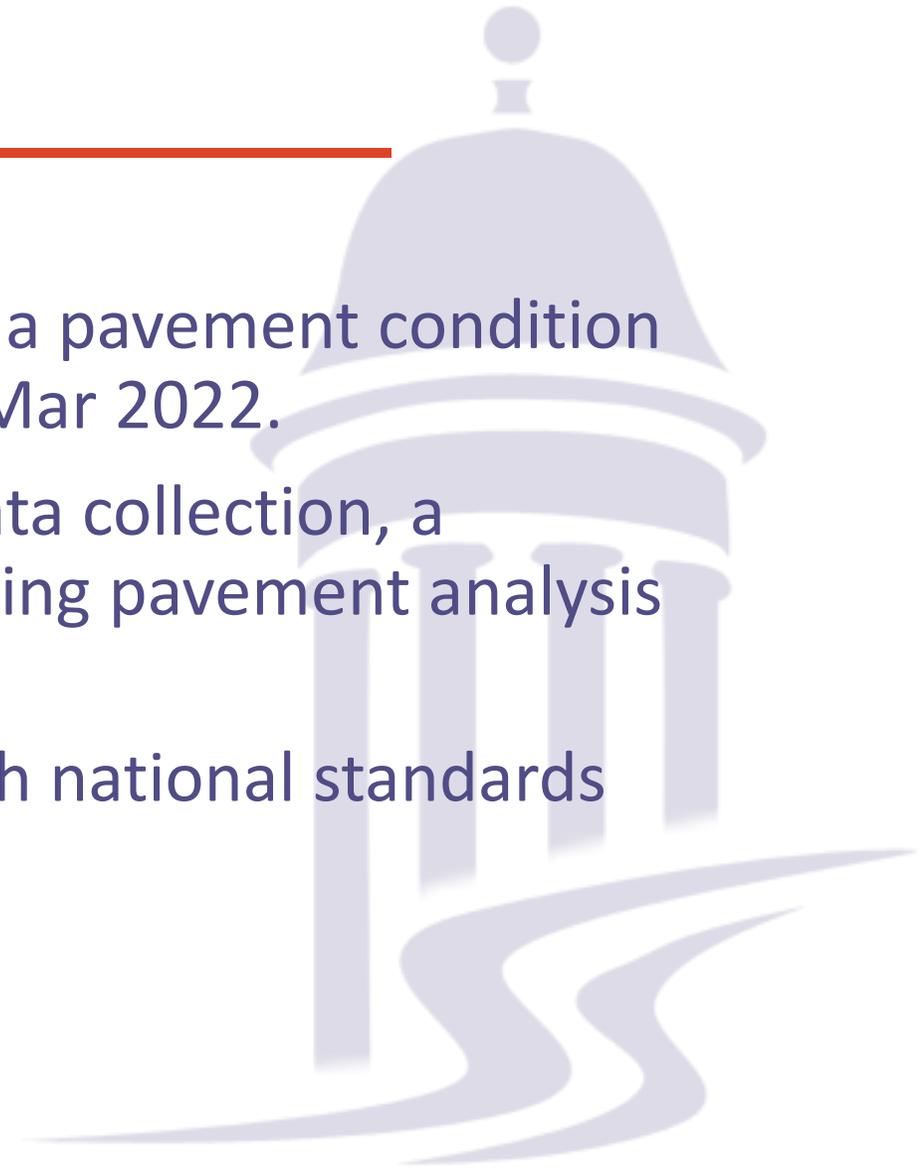
Agenda

- Intro to assessment process
- Roadway Network Condition
- Budget Models
- 2022 Repair Plan
- 2023 Repair Plan
- Project Locations
- Next Steps



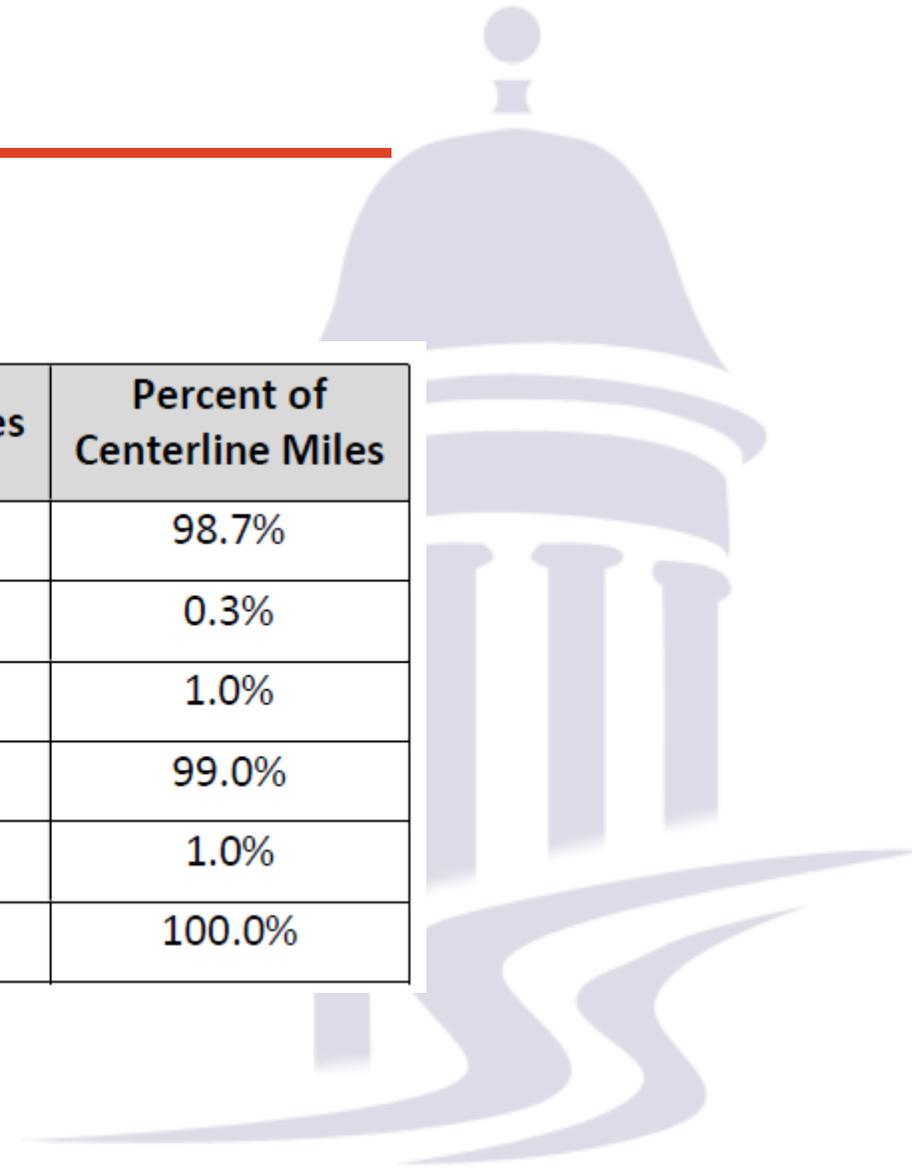
Intro to assessment

- Roadway Asset Services, LLC (RAS) performed a pavement condition assessment for the City of Pueblo from Jan – Mar 2022.
- Assessment included an automated mobile data collection, a **Pavement Condition Index (PCI)** calculated using pavement analysis tools, and an ESRI file geodatabase.
- Assessment was performed in accordance with national standards (ASTM D6433-11).



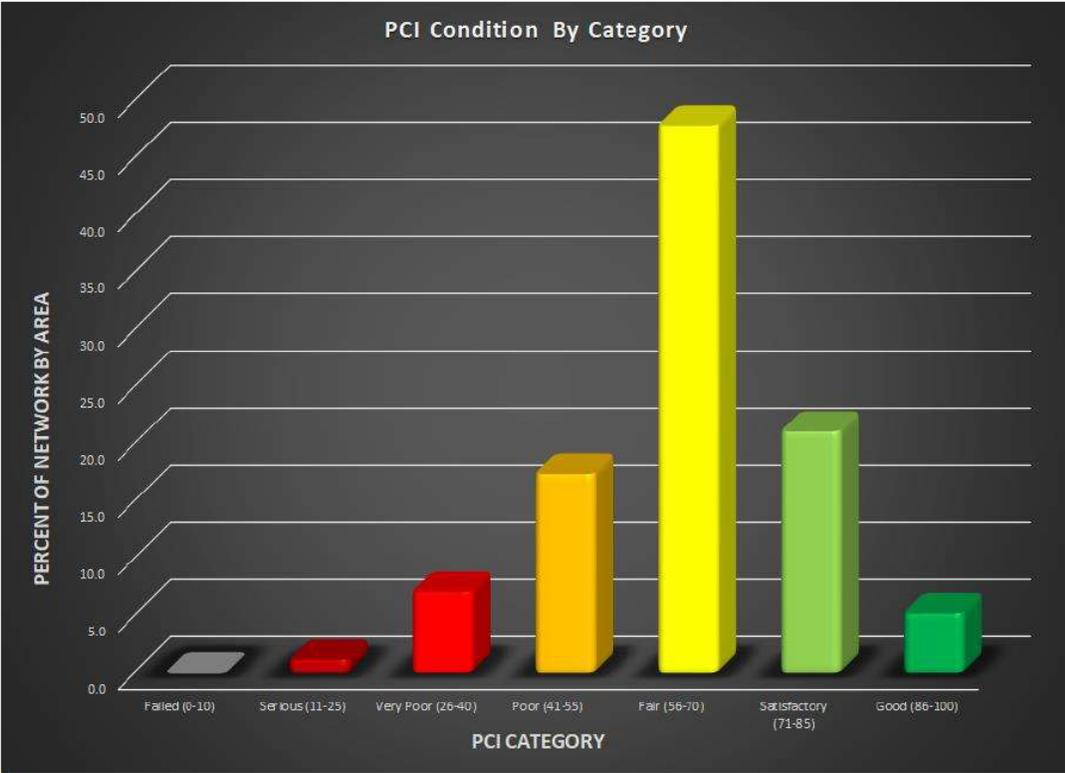
Network Assets

Item	Description	Centerline Miles	Percent of Centerline Miles
1	Asphalt Segments with PCI	493.0	98.7%
2	Concrete Segments with PCI	1.60	0.3%
3	Not Collected – Does not Exists	4.80	1.0%
TOTAL WITH PCI		494.60	99.0%
TOTAL WITHOUT PCI		4.80	1.0%
Total		499.40	100.0%



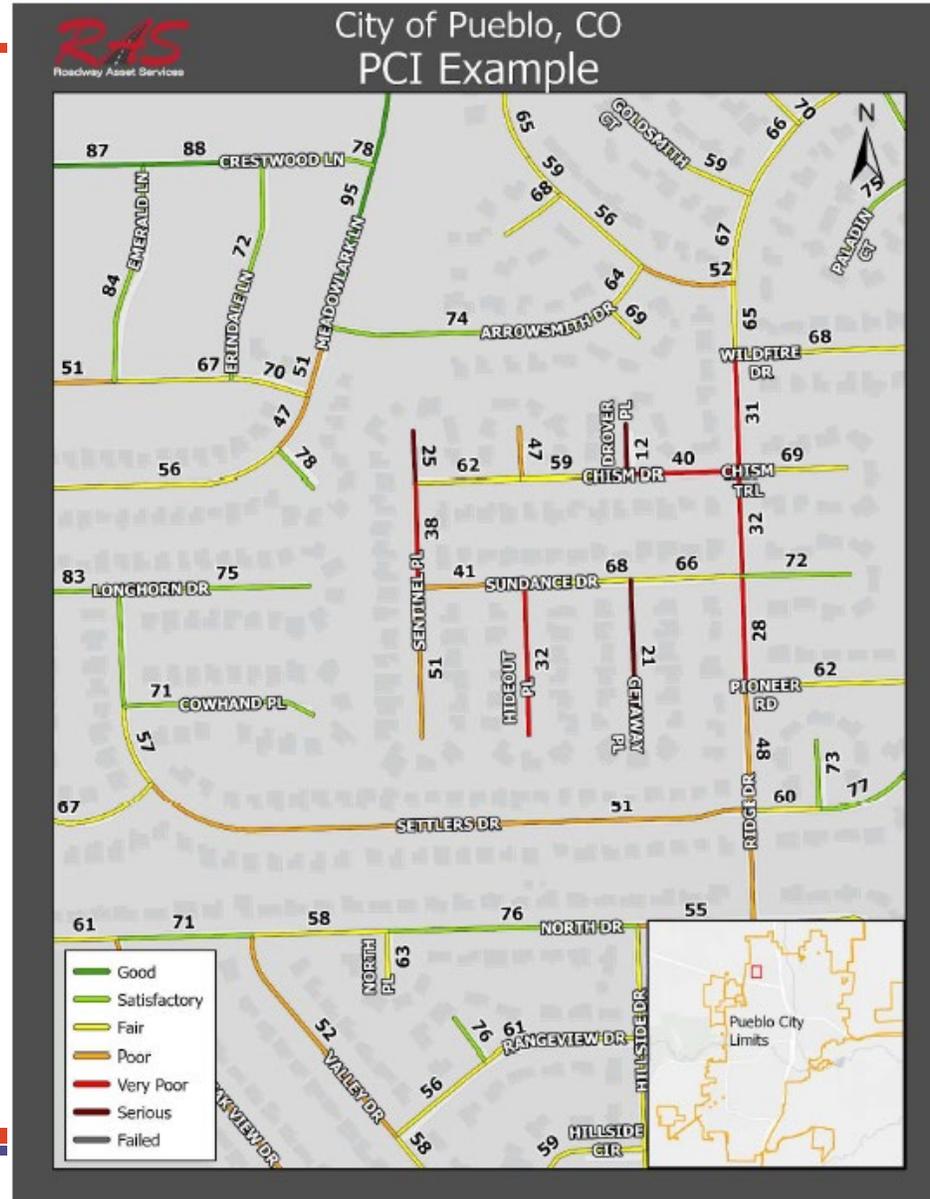
Roadway Network Condition

Pavement Condition Index (PCI) Range	Condition Description	Total Area (Square yards)	Percent of Network
86-100	Good	827,487	5.3%
71-85	Satisfactory	2,124,167	21.1%
56-70	Fair	4,812,237	47.9%
41-55	Poor	1,753,045.19	17.4%
26-40	Very Poor	713,459.26	7.1%
25-11	Serious	116,336.89	1.2%
0-10	Failed	3,449.86	0.0%
Total of Rated Segments		10,050,183	100%

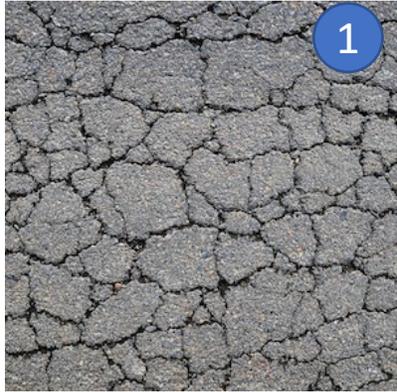


- The average of the road segment PCI values was calculated to be **62**. This value indicates the roadway network is in a “Fair” condition.

Sample of data collection results



Distress Examples



1



2



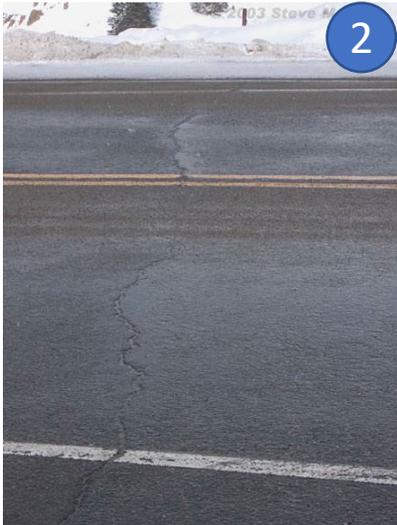
3



5



7



2



2



4

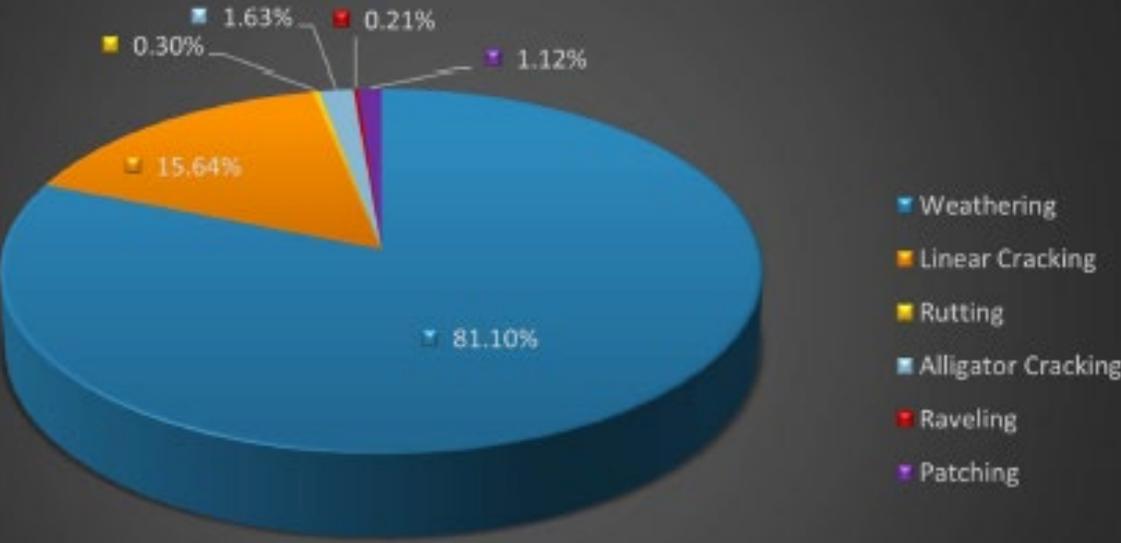


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1	Alligator Cracking
2	Linear Cracking
3	Patching
4	Potholes
5	Raveling
6	Rutting
7	Weathering

Distress Breakdown by Severity

Asphalt Distresses Breakdown



Asphalt Distress Breakdown by Severity

Type	Low	Moderate	High
1. Alligator Cracking	1.37%	0.21%	0.05%
2. Linear Cracking	11.91%	3.61%	0.12%
3. Patching	1.06%	0.06%	0.00%
4. Pothole	0.00%	0.00%	0.00%
5. Raveling	N/A	0.15%	0.06%
6. Rutting	0.28%	0.02%	0.00%
7. Weathering	81.10%	0.00%	0.00%

Asphalt Treatments



Crack Seal



Seal Coat



Chip Seal



Slurry Seal



Cape Seal
(Chip + Slurry)



Micro Surfacing



Thin Lift Overlay



Mill & Overlay

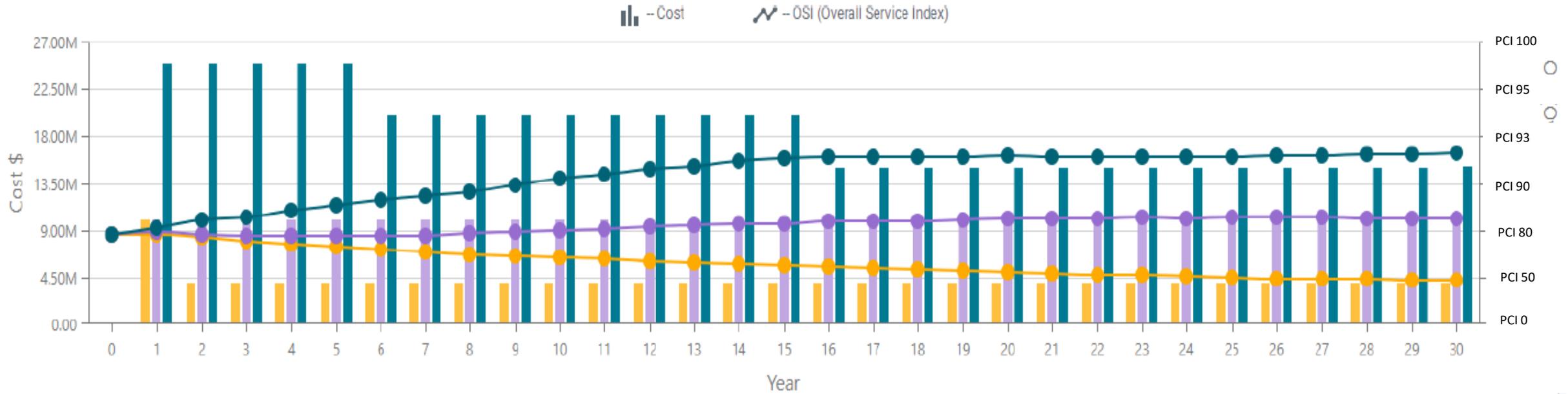
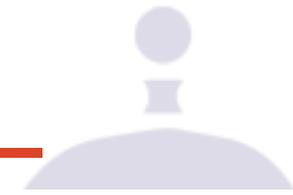


Full Depth
Replacement

Asphalt Treatment Types

Treatments	Proper Application		Cost per Lane Mile	PCI Range
Maintenance (ADA upgrades not required)			~ \$1,000s	
- Crack Seal	Residential	Arterial		85 – 94
- Seal Coat	Parking Lots			85 – 94
Preservation (ADA upgrades not required)			~ \$10,000s	
- Chip Seal		Arterial		75 – 84
- Slurry Seal	Residential			75 – 84
Preservation (ADA upgrades required)			~ \$10,000s + Concrete	
- Cape Seal	Residential	Arterial		65 – 74
- Micro Surfacing		Arterial		65 – 74
- Thin Lift Overlay		Arterial		65 – 74
Rehab (ADA upgrades required)			~ \$100,000s + Concrete	
- Milling & Overlay	Residential	Arterial		40 – 64
Major Rebuild (ADA upgrades required)			~ \$1,000,000s + Concrete	
- Full Depth Replacement (FDR)	Residential	Arterial		0 – 39

Budget Models (as of Mar 2022)



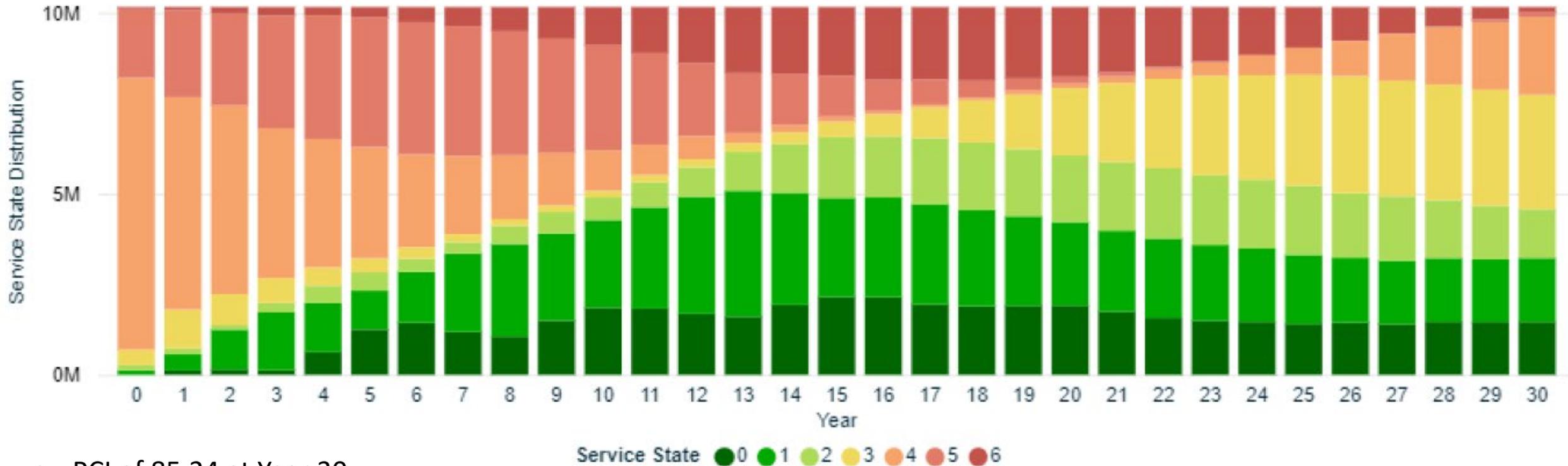
<input type="checkbox"/>	Increase Budget - PCI Goal - over 30 y ✓ Selected for Advanced Comparison Reports	🌐 10/24/2022	Report Ready ●	Report Ready ●	...
<input type="checkbox"/>	Increase Budget - \$10M - over 30 y ✓ Selected for Advanced Comparison Reports	🌐 10/24/2022	Report Ready ●	Report Ready ●	...
<input type="checkbox"/>	Current Budget - \$10M, \$4M - over 30 y ✓ Selected for Advanced Comparison Reports	🌐 10/24/2022	Report Ready ●	Report Ready ●	...

30-yr assessment of overall road conditions



Increase Budget - PCI Goal

Service Level by Year and Service State



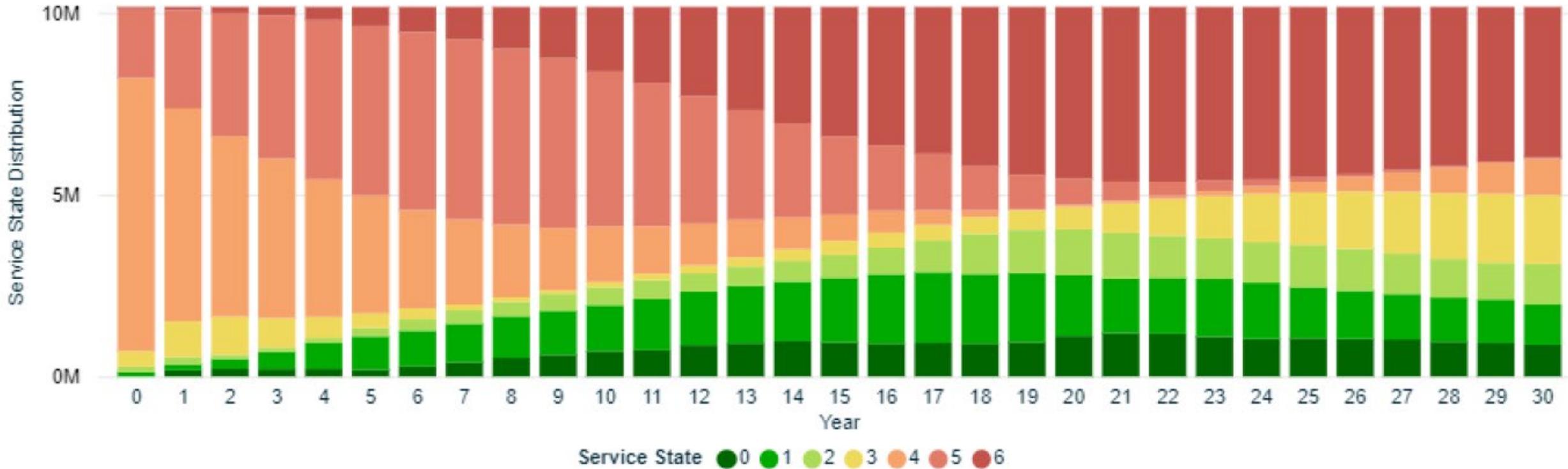
- PCI of 85.24 at Year 30.

30-yr assessment of overall road conditions

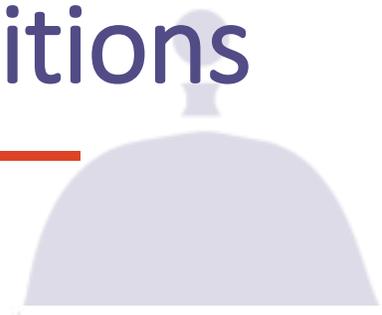


Increase Budget - \$10M

Service Level by Year and Service State



30-yr assessment of overall road conditions



Current Budget - \$10M, \$4M

Service Level by Year and Service State



2022 Street Repairs (\$7.25M Budget, CI-2204)

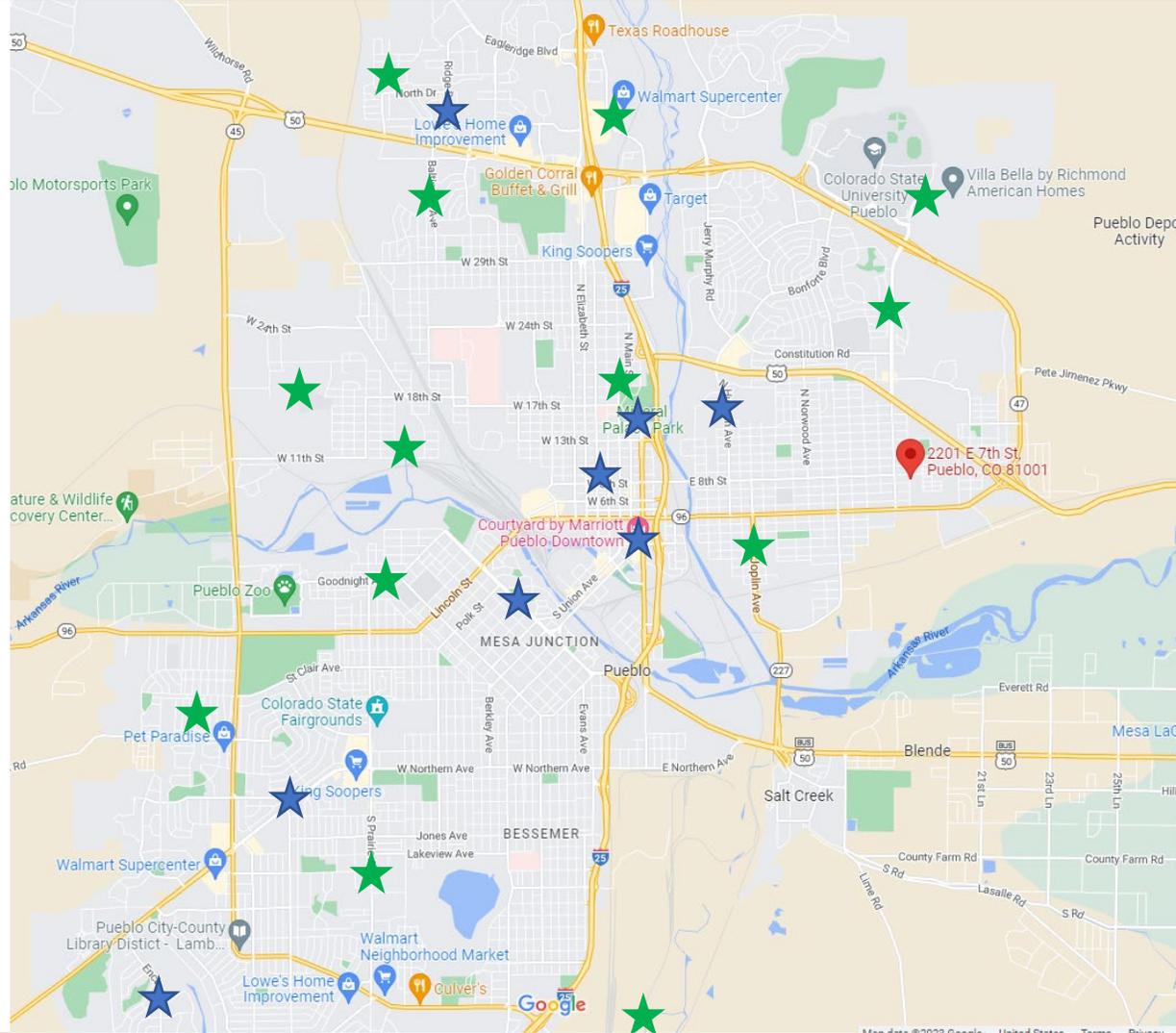
	Status	Cost
22-003 – Asphalt Paving City Center & Santa Fe	Completed	\$250,748
22-002 – Asphalt Paving Hudson (4 th to Hwy 50), N. Grand (City Center to 24 th), W. 15 th (Court to Santa Fe)	Completed (\$1,419,539)	HUAN01
22-035 – Street Improvements Covina Ct.	Completed	\$119,133
22-063 – Asphalt Paving Northern (S. Prairie to Pueblo)	Completed	\$796,291
22-064 – Asphalt Paving W. Abriendo (Cleveland to Washington)	40% Complete	\$1,564,648
22-037 & 22-079 – ADA & Asphalt Paving Ridge (Hwy 50 to Eagleridge) & Alan Hamel	75% Complete (\$199,470 + \$1,032,874 (est))	\$1,232,344
Miscellaneous Concrete Repairs/ADA Upgrades	Completed/Awarded	\$564,254
22-000 – ADA Upgrades Dillon (Hwy 47 to Eagleridge)	5% Complete	\$397,340
22-091 – ADA Upgrades Joplin (4 th to Portland)	50% Complete	\$136,582
	Total	\$5,061,340
	Unobligated Balance of CI-2204	\$2,188,660
23-058 – Concrete Improvements S. Prairie	Additional City Funds Required to Award	\$309,548
	Remaining Balance	\$1,879,112

2023 Street Repairs (\$10M Budget)

	Treatments	Status	Awarded/Estimate	Contractor
23-058 – ADA S. Prairie (Northern to Pueblo) 23-067 – Asphalt Paving S. Prairie	ADA Upgrades Mill & Overlay	Concrete Award 5/8; Asphalt Advisement 4/25	\$1,250,000 HU2201 & SR2201 \$1,417,848 (estimate)	Arrow Electric TBD
23-063 – Asphalt Paving - Joplin (4 th to S. Portland)	Mill & Overlay	Asphalt Award 5/8	\$782,236	Martin Marietta
23-001 & 23-026 - Troy (Hwy 50 to Hwy 47)	ADA Upgrades + Mill & Overlay	Awarded	\$826,487	Greatland Concrete Tony Beltramo
23-008 - Cheyenne (11 th to 14 th)	ADA Upgrades + Mill & Overlay	Awarded	\$467,582	Pyramid Construction
23-009 - Court (City Center to 24 th)	ADA Upgrades	Awarded	\$524,850	Doug Vaughn
23-050 - W. 11 th St (Adee to Pueblo Blvd)	ADA Upgrades + Mill & Overlay	Awarded	\$653,922	Tony Beltramo
23-056 - Regency Crest	Crack Sealing + Cape Seal	Awarded	\$272,083	A-1 Chipseal
23-057 - Crestview Hills	Crack Sealing + Chip Seal	Awarded	\$395,853	A-1 Chipseal
23-047 - Lime (I25 to UPRR ROW)	Full Depth Replacement	Planning for advertisement 5/16	\$1,245,982 (estimate)	TBD
23-061 – ADA Cleveland & Goodnight (W. Abriendo to City Park) 23-065 – Asphalt Paving Cleveland & Goodnight	ADA Upgrades + Cape Seal	Award 5/8	\$627,350 (\$358,597 + \$267,753)	Castle Rock Construction A-1 Chipseal
23-012 - Baltimore (Hwy 50 to W. 29 th)	ADA Upgrades + Mill & Overlay	Awarded	\$687,780	Martin Marietta
23-062 - 6 th (24 th to 29 th)	Concrete Improvements + Mill & Overlay	Award 5/8	\$355,896	Tony Beltramo
23-066 - Starlight (Bridletrail to City Limits)	Overlay + Chip Seal	Advertised 4/25	\$500,000 (estimate)	TBD
23-044 – Emergency Repairs Wildhorse Creek at 31 st	Full Depth Repair	Complete	\$80,723	Parker Excavation
		Total	\$8,837,594	

Project Locations

- ★ 2022
- ★ 2023



Next Steps

- Provide PCI street status on city website
- Codify PCI goal of 72 for road network
- Formalize long range maintenance plan
- Develop and implement revenue generation strategy to support maintenance plan
- Update asset condition data as repair projects are completed; reassess pavement condition in 2027

