



# UTAH LTAP STREET AND SIDEWALK SURVEY

PROVO CITY ENGINEERING

January 19, 2023



# ROAD SURVEY

# STRUCTURAL DISTRESS

FATIGUE CRACKING, POTHOLES, RUTTING, BLEEDING, PATCHING



**A – VERY GOOD**

MINIMAL TO NO DISTRESS



**B – GOOD**

MINOR RUTTING, FATIGUE CRACKING, AND SINGLE LONGITUDINAL CRACKING



**C – FAIR**

MODERATE RUTTING, FATIGUE CRACKING, AND SEVERAL INTERCONNECTED LONGITUDINAL CRACKING



**D – POOR**

SEVERE RUTTING, FATIGUE CRACKING (6-12 INCH SPACING), NO VERTICAL MOVEMENT IN ASPHALT



**E – VERY POOR**

EXTREME RUTTING, FATIGUE CRACKING COVERING MOST OF THE ROADWAY, NO VERTICAL MOVEMENT IN ASPHALT



# ENVIROMENTAL DISTRESS

TRANSVERSE CRACKS, LONGITUDINAL CRACKS, MAP/BLOCK CRACKING, RAVELING



1 – VERY GOOD

MINIMAL TO NO DISTRESS



2 – GOOD

FEW TRANSVERSE CRACKS  
AND LONGITUDINAL  
CRACKS NOT IN THE WHEEL  
PATH.



3 – FAIR

CLOSELY SPACED  
TRANSVERSE CRACKS, EARLY  
MAP/BLOCK CRACKING



4 – POOR

ADVANCED MAP/BLOCK  
CRACKING, ABUDANT  
TRANSVERSE AND  
LONGITUDINAL CRACKING

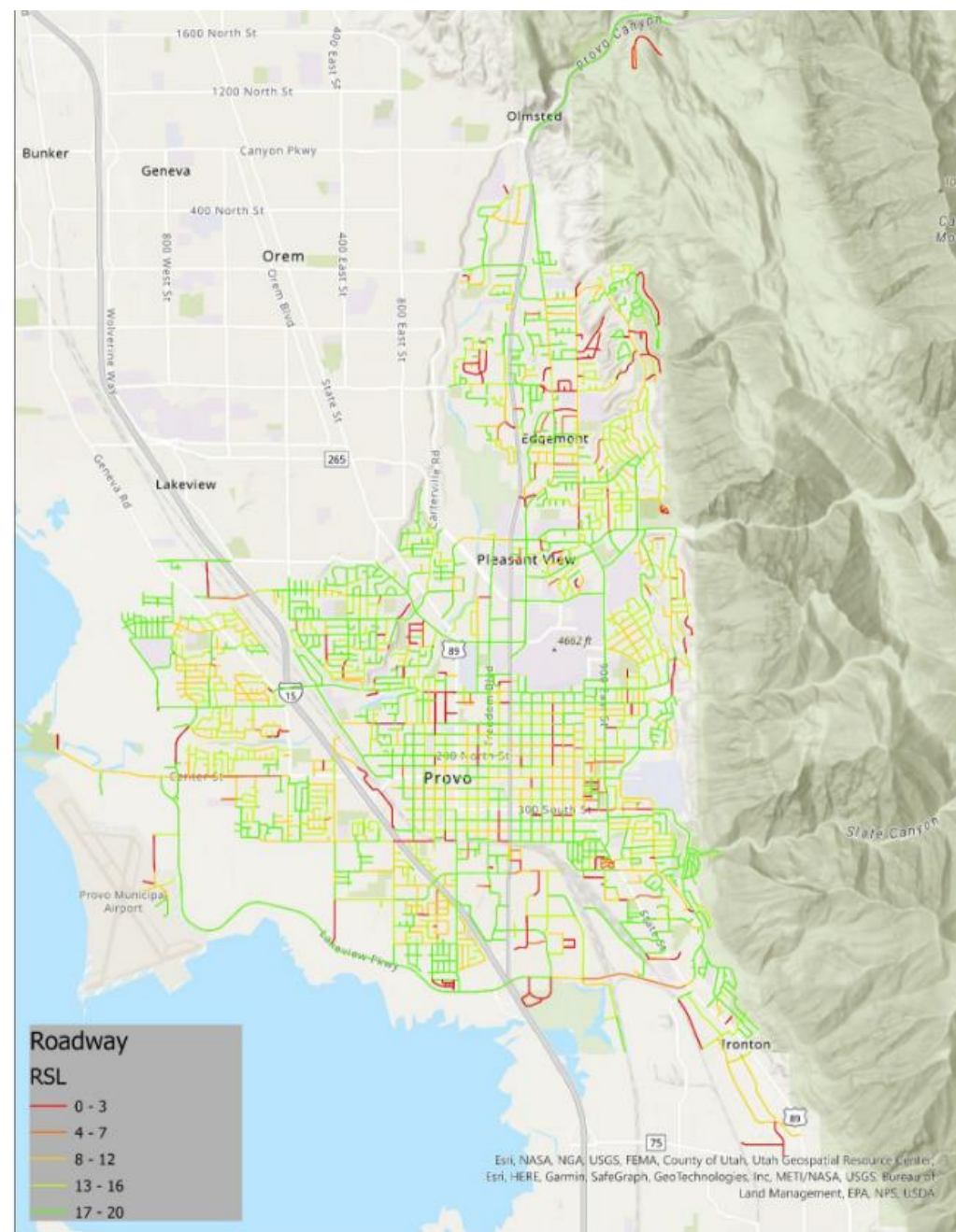


5 – VERY POOR

ADVANCED MAP/BLOCK  
CRACKING, ABUDANT  
TRANSVERSE AND  
LONGITUDINAL CRACKING  
WITH SURFACE DEFORMATION

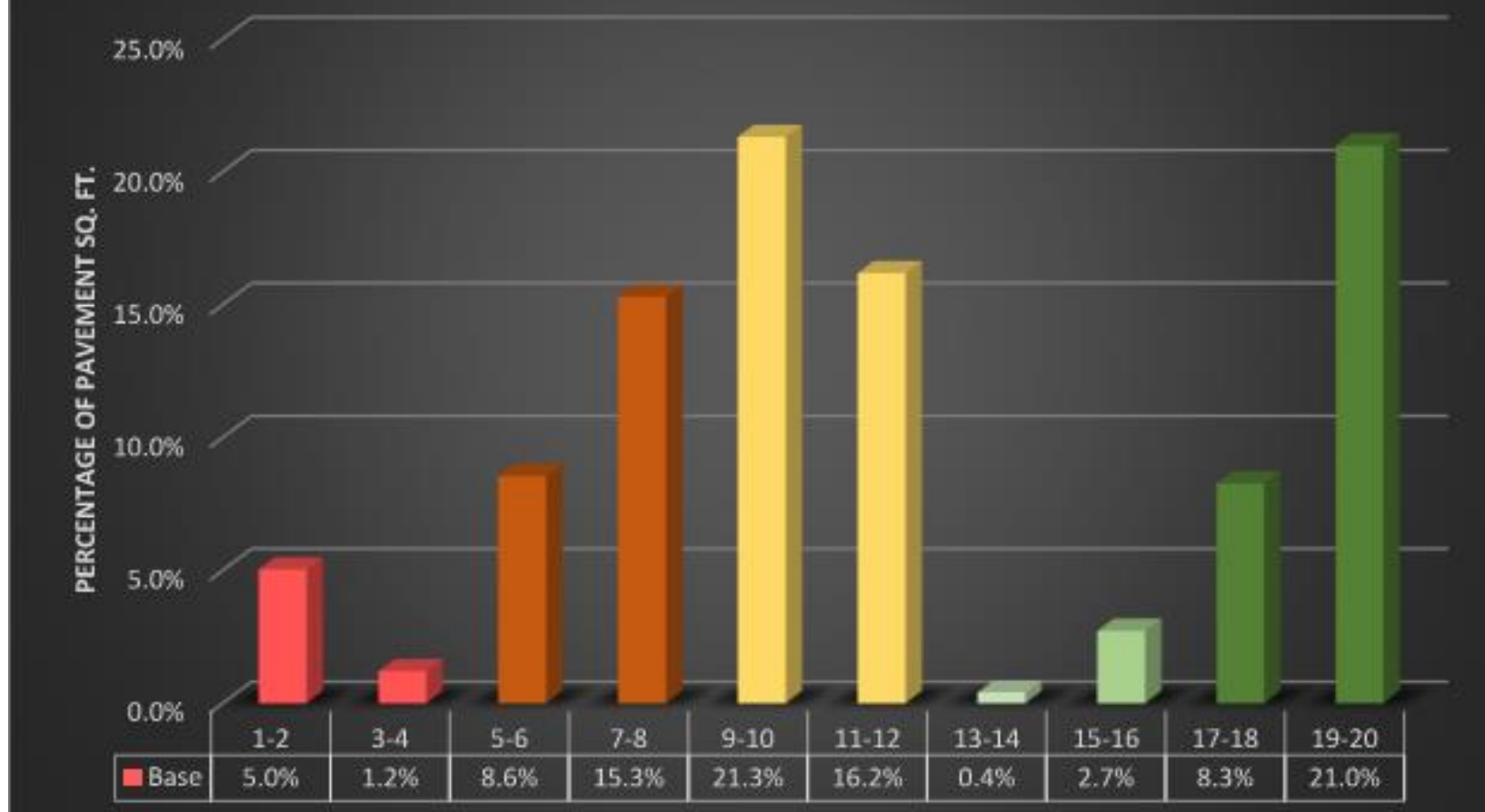
Table One Conversion from Structural/Environmental Rating to Remaining Service Life					
Structural and Environmental Rating					Remining Service Life
				A1	20
				A1	19
				A2	18
			B1	A2	17
			B1	A3	16
			B2	A3	15
			B2	A3	14
		C1	B2	A3	13
		C1	B2	A4	12
		C2	B3	A4	11
		C2	B3	A4	10
	D1	C3	B4	A5	9
	D1	C3	B4	A5	8
	D2	C4	B4	A5	7
	D2	C4	B5		6
	D3	C4	B5		5
E1	D3	C5			4
E2	D4	C5			3
E3	D4	C5			2
E4	D5				1
E5	D5				0

- THIS TABLE IS USED TO CONVERT FROM STRUCTURAL AND ENVIRONMENTAL RATING TO REMAINING SERVICE LIFE (RSL)
- AVERAGE RSL VALUES ARE USED FOR ROAD CLASSIFICATIONS

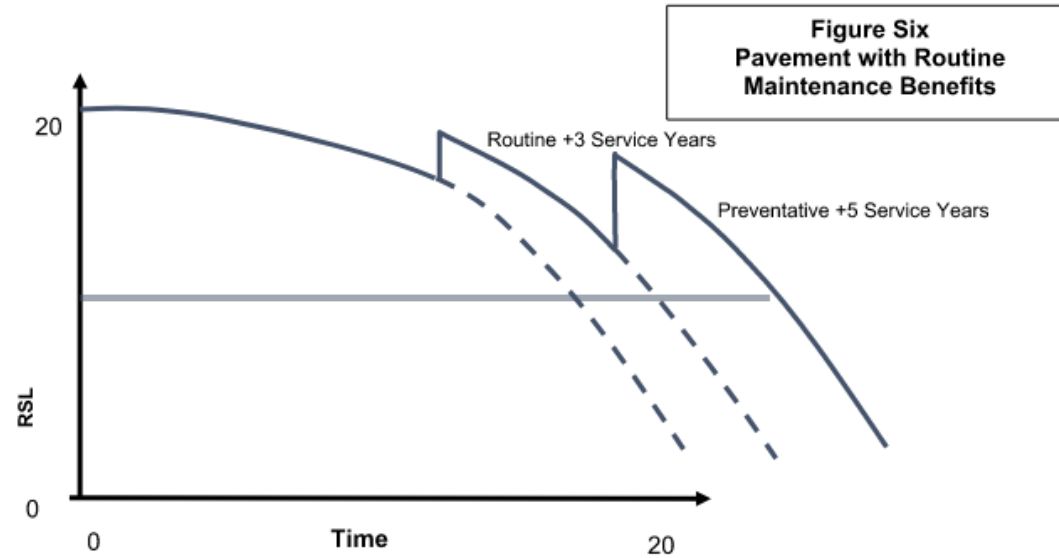


- Provo has 266 center-line miles.
- Provo Average RSL is 11.71

Figure Four  
Current RSL Categories



## PROVO CITY TYPICAL MAINTENANCE



- ROUTINE – CRACK SEAL & SLURRY SEALS
- PREVENTATIVE – MICROSURFACING
- REHABILITATION – MILL & OVERLAY

Table Two Maintenance Categories and Benefits				
Maintenance Category	Range of RSL - Maintenance Applicable	Average Budget (per sf of pavement)	Additional RSL Gain	Benefit/Cost Ratio
Routine	16-20 RSL	\$0.12	3	25
Preventative	11-15 RSL	\$0.35	5	20
Rehabilitation	7-10 RSL	\$2.00	8	4
Reconstruction	1-6 RSL	\$6.00	20	3.33

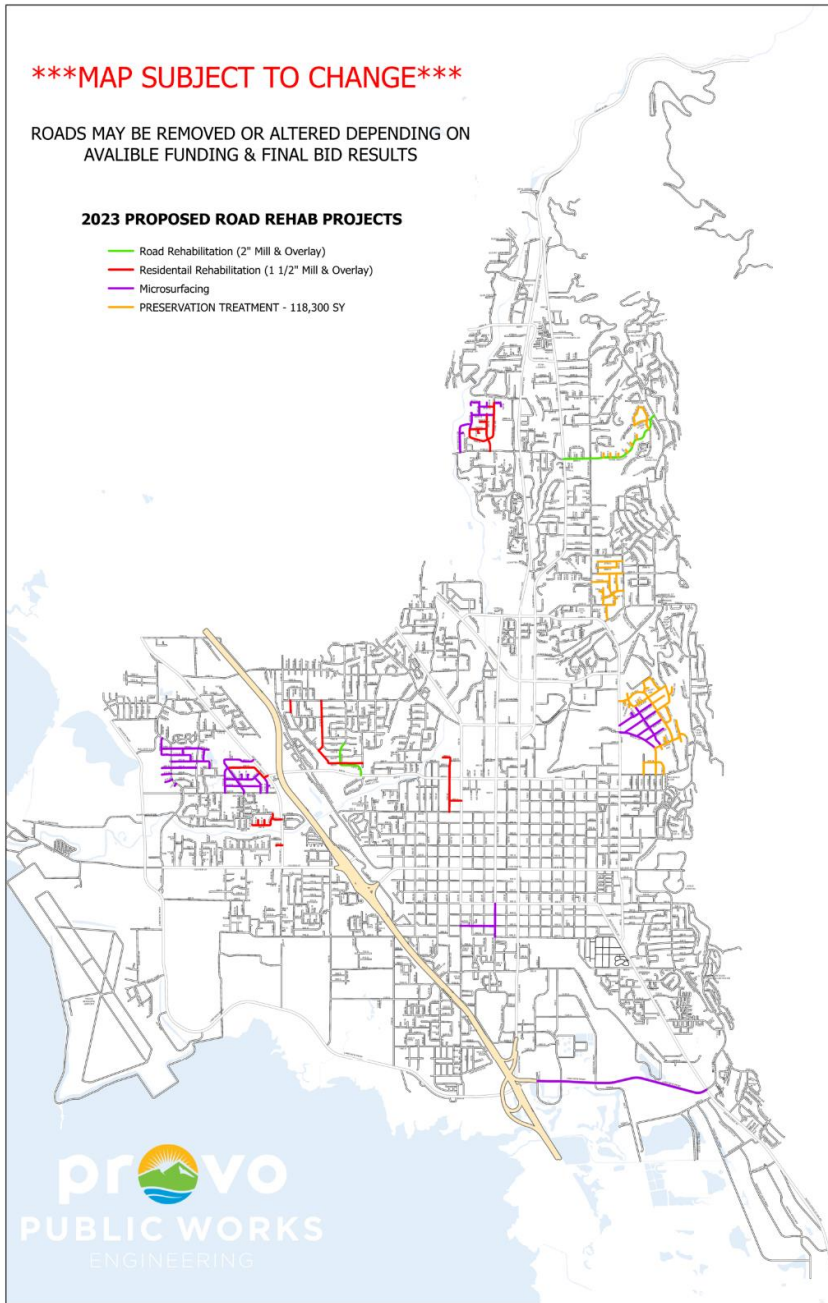


\*\*\*MAP SUBJECT TO CHANGE\*\*\*

ROADS MAY BE REMOVED OR ALTERED DEPENDING ON  
AVAILABLE FUNDING & FINAL BID RESULTS

**2023 PROPOSED ROAD REHAB PROJECTS**

- Road Rehabilitation (2" Mill & Overlay)
- Residential Rehabilitation (1 1/2" Mill & Overlay)
- Microsurfacing
- PRESERVATION TREATMENT - 118,300 SY

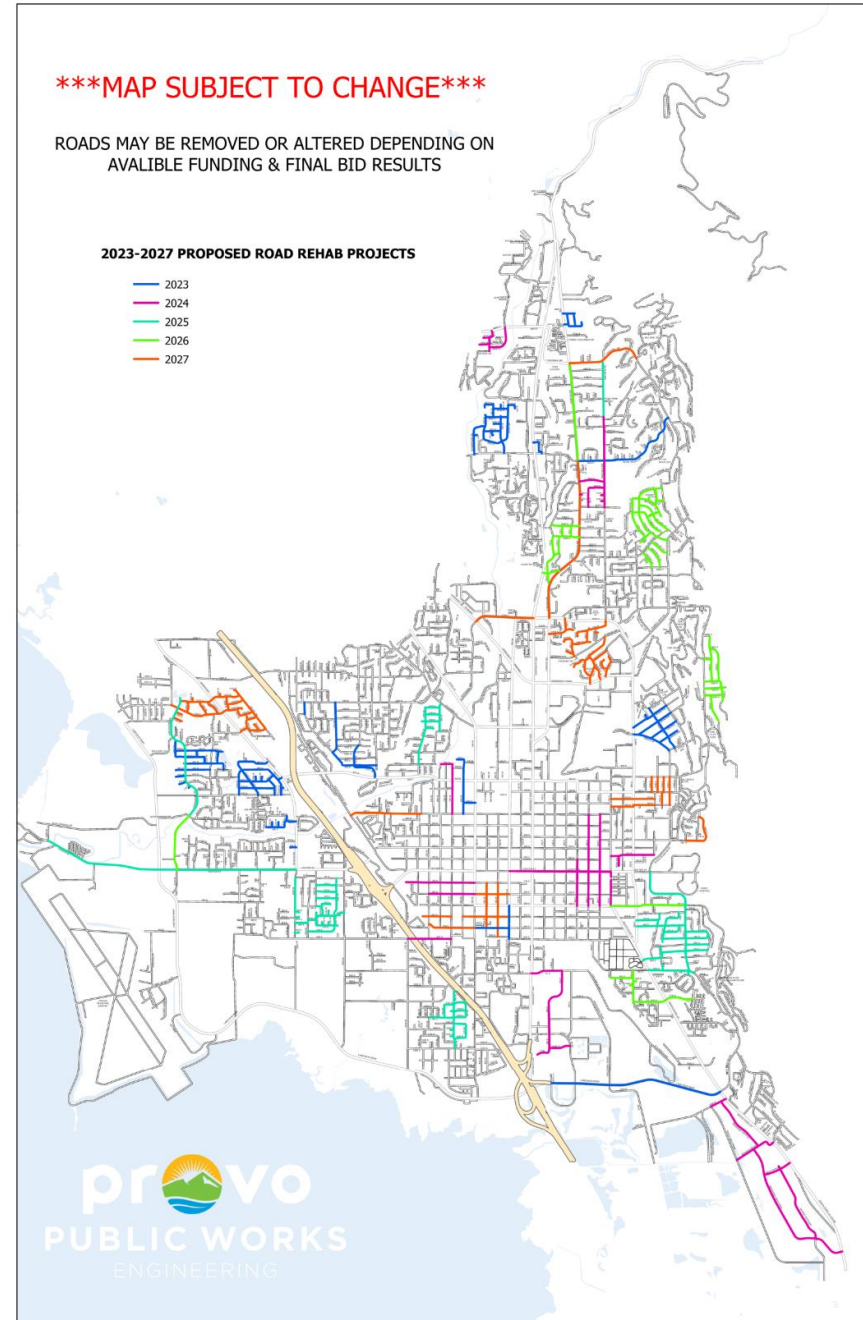


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ROADS MAY BE REMOVED OR ALTERED DEPENDING ON  
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**2023-2027 PROPOSED ROAD REHAB PROJECTS**

- 2023
- 2024
- 2025
- 2026
- 2027



# SIDEWALK SURVEY



# SIDEWALK DISTRESS



VERTICAL SEPARATION



MULTIPLE CRACKS



MISSING PANELS



HORIZONTAL SEPARATION



SAG



SPALLING

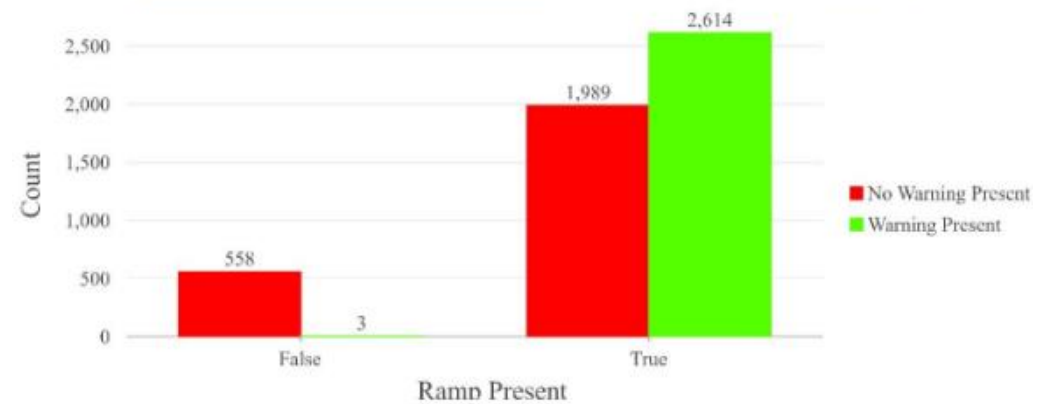
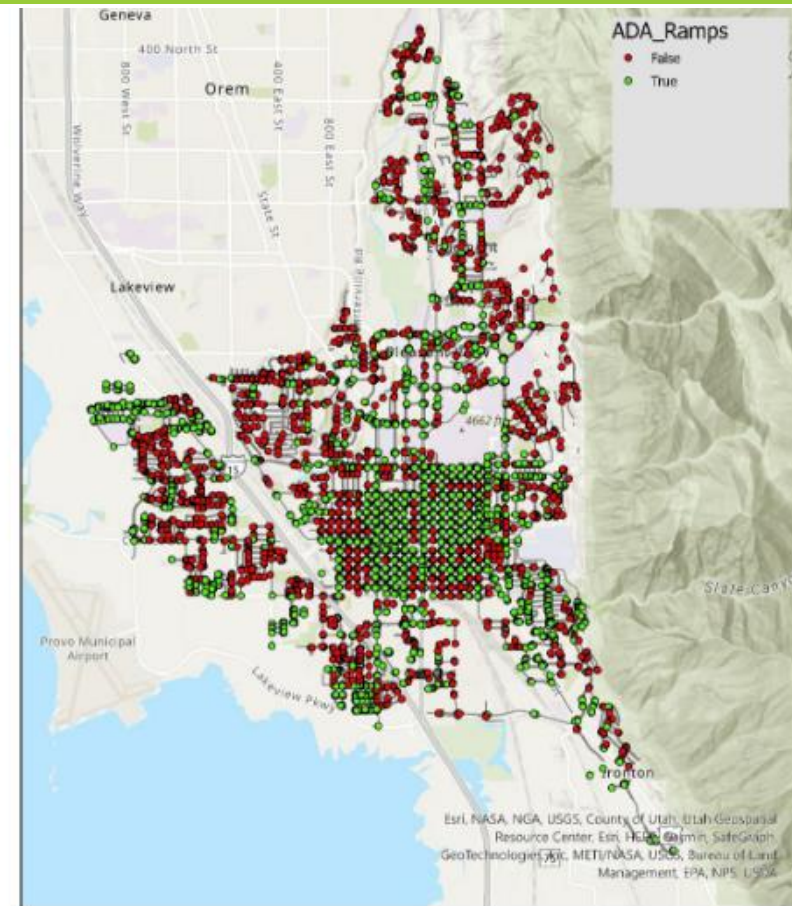
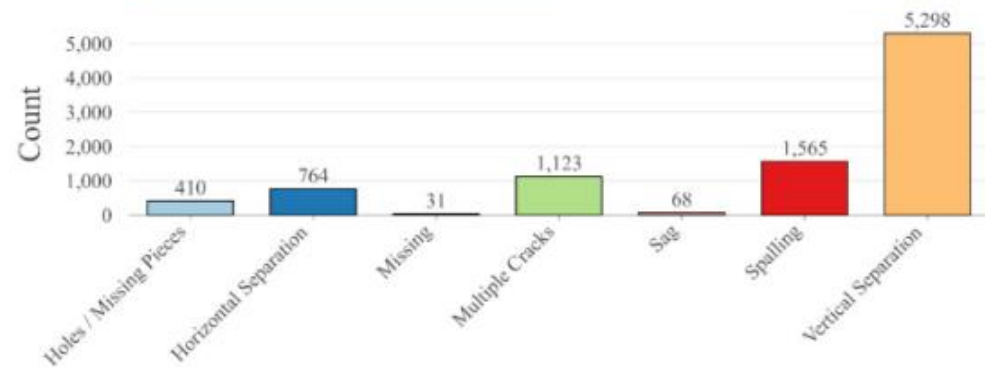
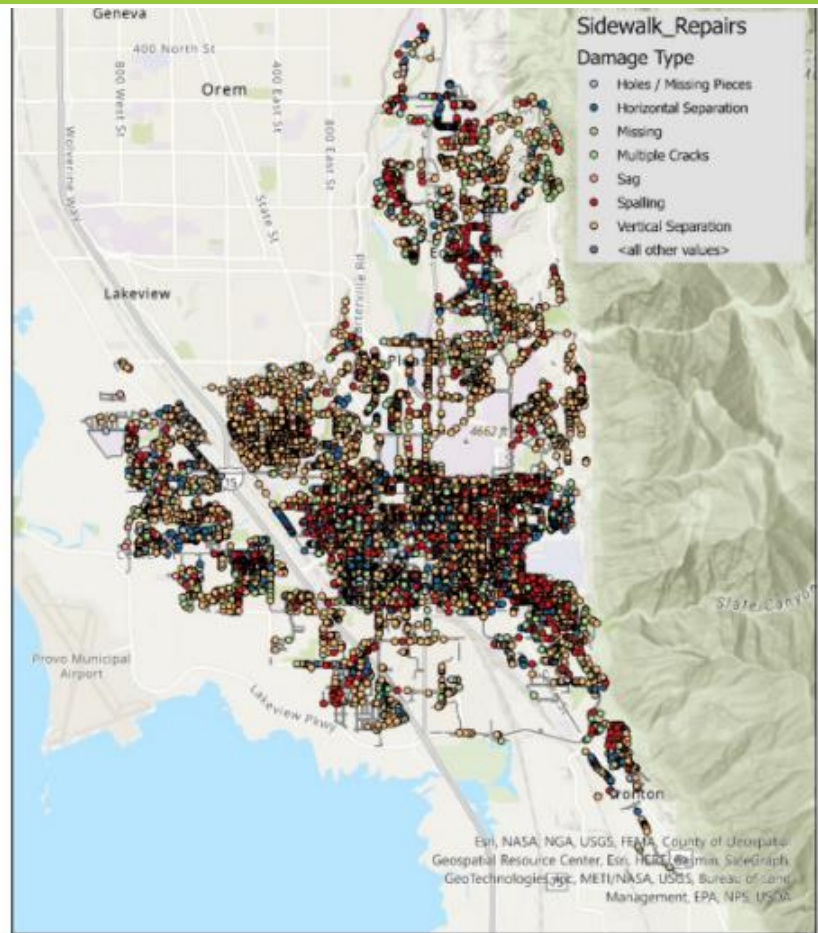


MISSING PIECES/HOLES



MISSING ADA RAMP



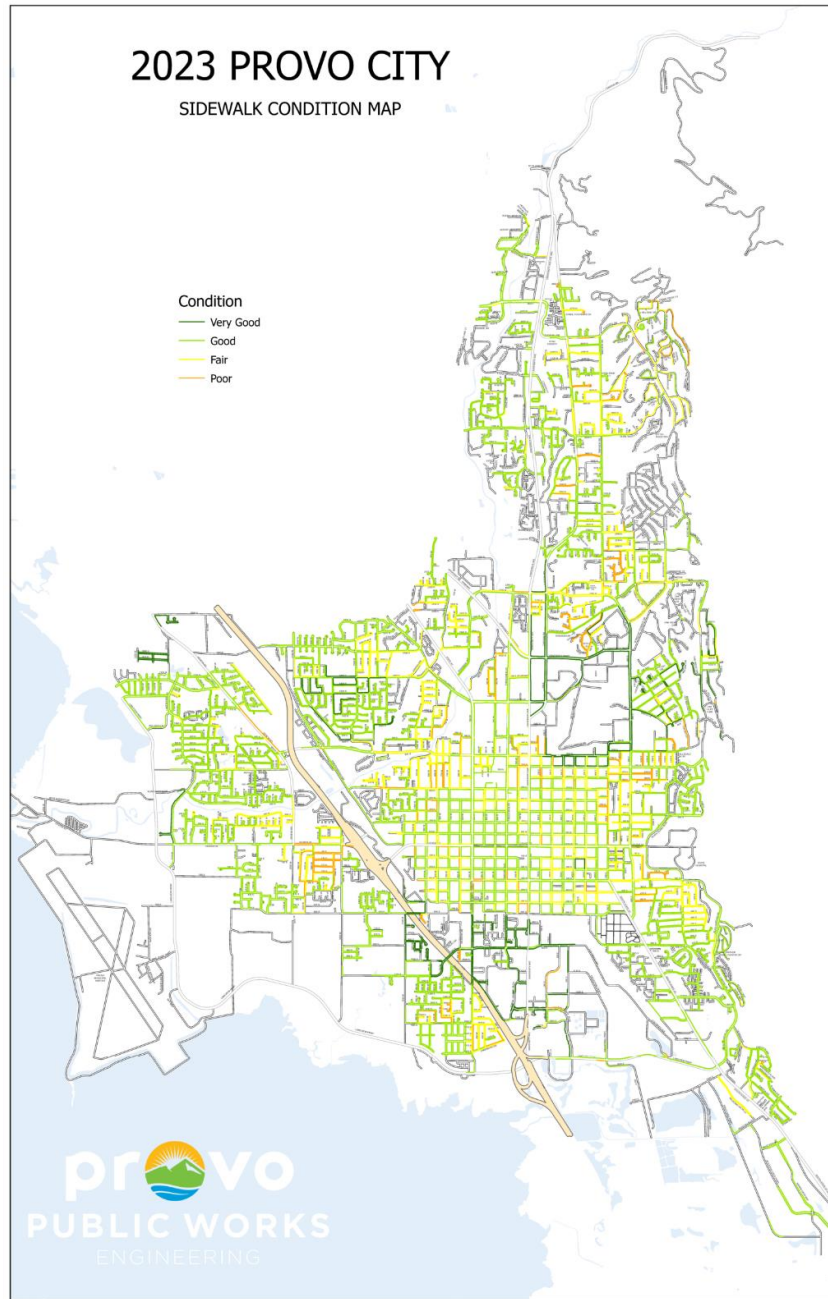




# 2023 PROVO CITY

SIDEWALK CONDITION MAP

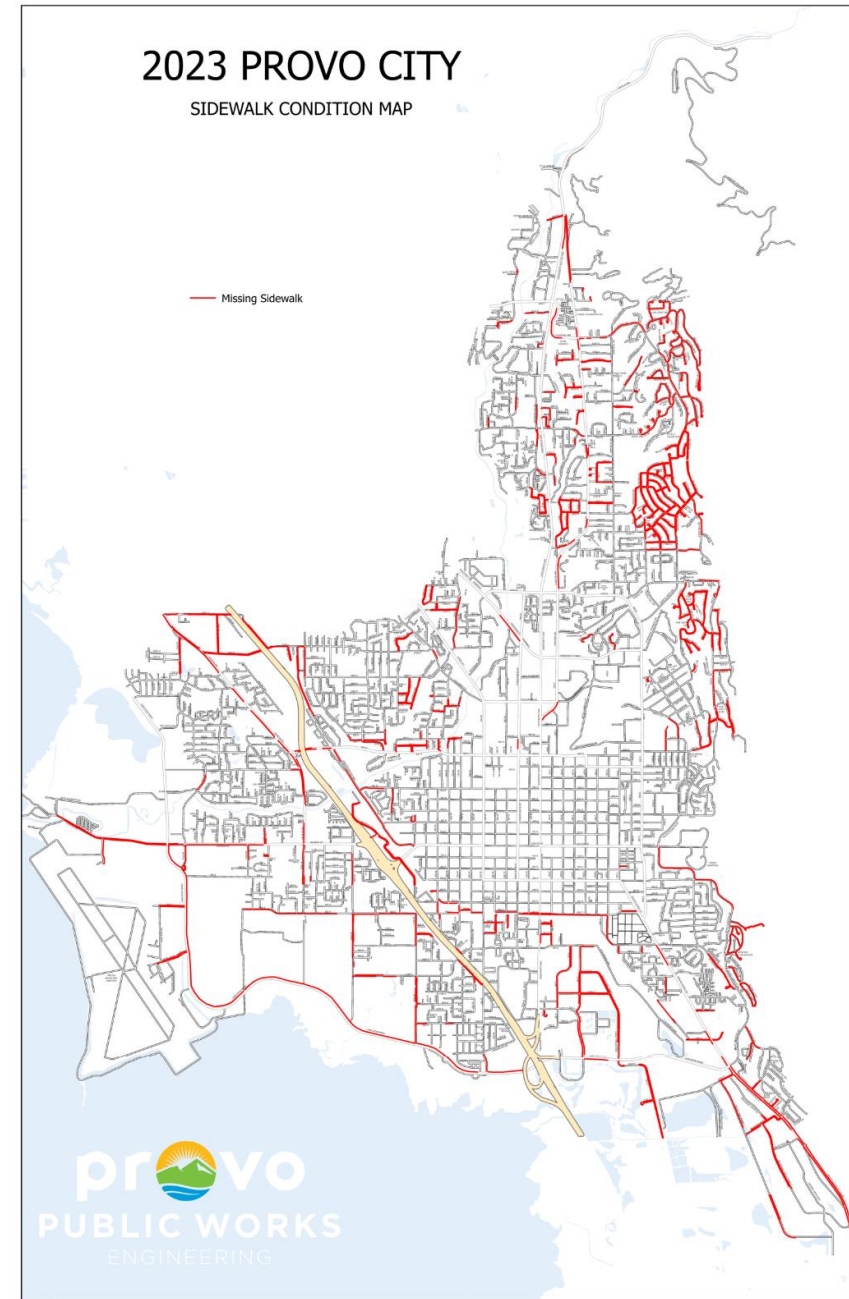
Condition  
Very Good  
Good  
Fair  
Poor



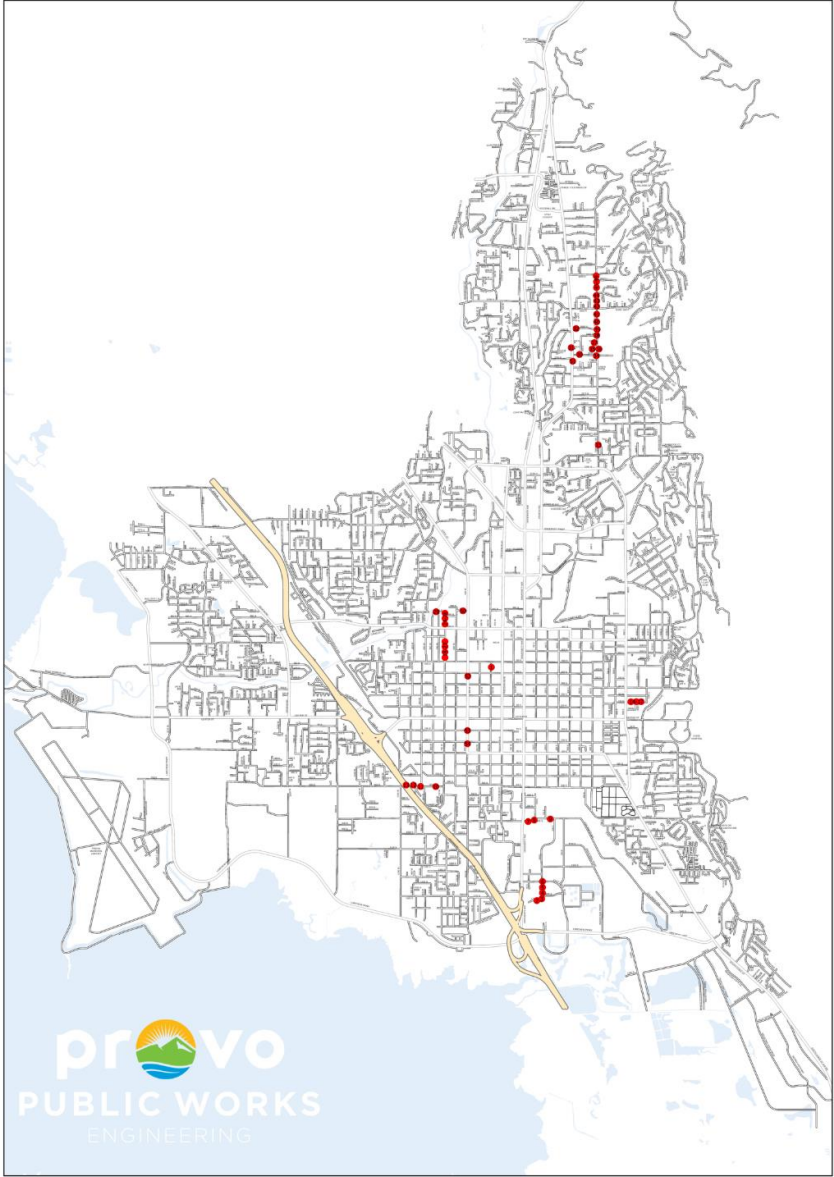
# 2023 PROVO CITY

SIDEWALK CONDITION MAP

Missing Sidewalk



2023 PROVO CITY SIDEWALK REPLACEMENT

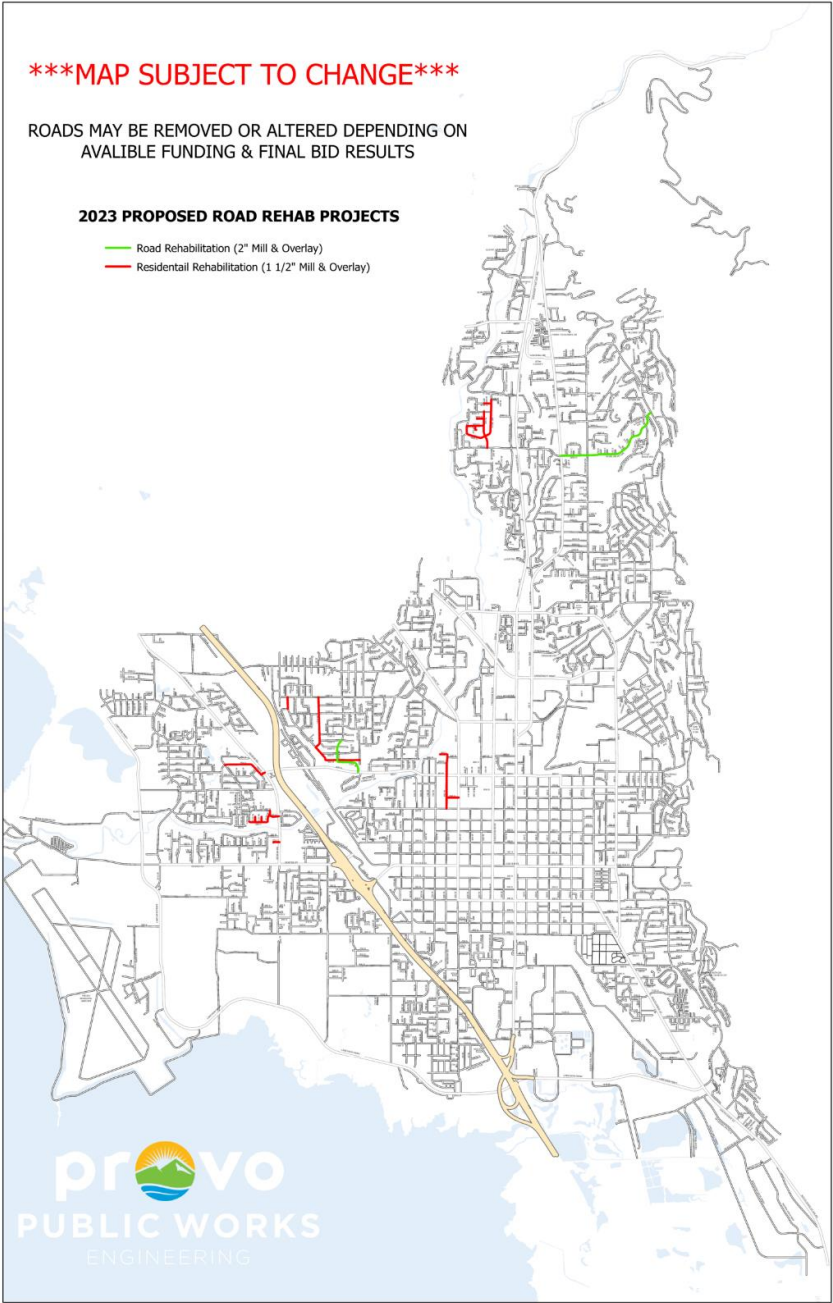


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QUESTIONS???