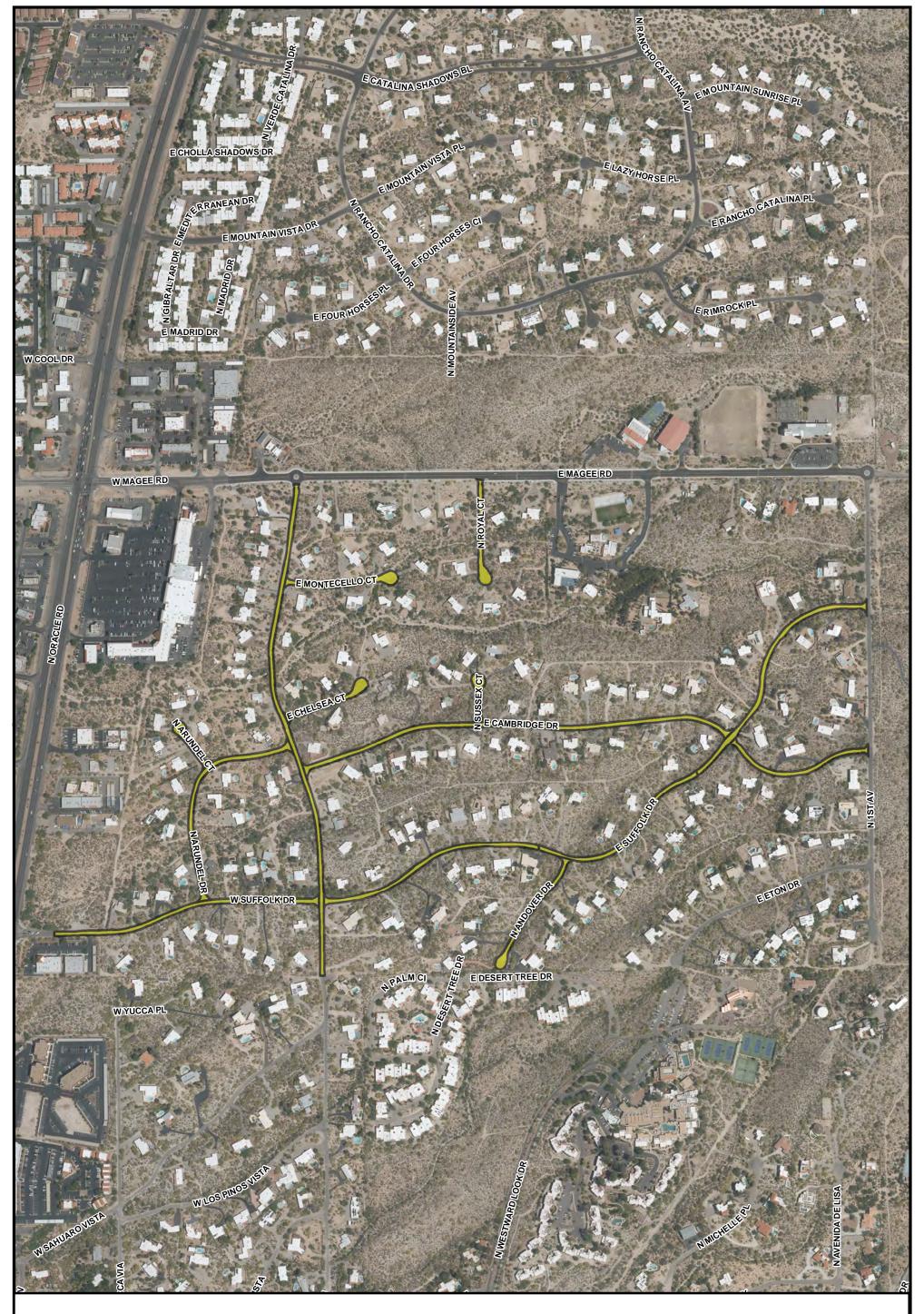


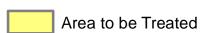
Legend

Area to be Treated

Town of Oro Valley
Copper Creek Block A and N/Copper Spring Trail
(SQ Yards = 36,340)



Legend



Town of Oro Valley Suffolk Hills (SQ Yards =44,512)

Surface Treatment Type SAM



Pavement Preservation Program

Regional Local Road Repair Program

August 14th, 2017

Town of Oro Valley

Oro Valley Pavement Preservation Program

Data-driven process established in 2007

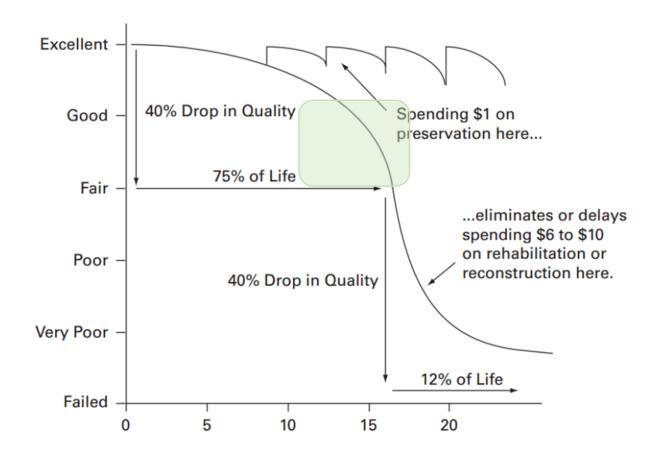
- Inventory
- Evaluate
- Rank
- Program
- Implement





Pavement Evaluation

Pavement Preservation Program goal: protect assets and maximize effectiveness of public funds by applying the right treatment, at the right time, to the right pavement





Treatments Utilized

The right treatment, at the right time, for the right pavement

- Fog seal
- Stress-absorbing membrane
- ► Slurry seal



Public Outreach

Community request: continued proactive maintenance of a street system of the highest quality

- Responses to resident inquiries and concerns
- Online services for dissemination of information
- Communication via mail, email, flyers
- Encouragement of constituent attendance at Council meetings





2017 Stress Absorbing Membrane (SAM) Treatment List

Scheduled Subdivisions:

- Catalina Shadows
- Catalina Shadows Estates
- Catalina Shadows Estates, Phase 4
- Fairhaven Village
- Rancho Vistoso NH 2, Phase 1 and 2
- Rancho Vistoso NH 7, Parcel G
- Rancho Feliz (Lots 442 647)
- Shadow Mountain Estates
- Shadow Mountain Estates East
- Sunnyslope

Scheduled Streets:

- Calle Concordia
- Cool Drive
- Palisades South, Skywire Road



2017 Crack Seal Project List

Approved Subdivisions:

- Catalina Shadows
- Catalina Shadows Estates, Phase 4
- Desert Willows
- Fairhaven Village
- Lambert Acres
- Lambert Lane Subdivision
- Rancho Catalina
- Rancho Feliz (Lots 353 389, 442 647)
- Rancho Vistoso NH 2, Phase 1 and 2
- Rancho Vistoso NH 5, Parcel C, T
- Rancho Vistoso NH 7, Parcel C, F, G, H, K
- Rancho Vistoso NH 10 W (Lots 1 36)
- Rivers Edge
- Shadow Mountain Estates
- Shadow Mountain Estates East
- Sunny Slope
- Tangerine Terrace

Approved Streets:

- Arrowsmith Drive
- Calle Concordia
- Cool Drive
- Egleston Drive
- Palisades South, Skywire Road



Questions

Please visit www.orovalleyaz.gov/town/projects for a list of past, current and future roadway projects

Town of Oro Valley

ATTACHMENT 3c

Town of Sahuarita Two-Year Plan

Year 1

				Patch with Other		
			Crack Seal	Scrub Seal	Microsurface	Treatments
12874	SY	La Joya Verde	\$19,230	\$15,734		
20750	SY	Las Quintas Serena	\$34,221	\$36,400		
15222	SY	Colona La Canada	\$19,525		\$20,832	
10451	SY	La Canada Norte	\$22,198	\$18,162		
12874	SY	Rancho Buena Vista (ST13)	\$18,071	\$14,786		
10602	SY	Rancho Buena Vista (ST14)	\$9,174	\$7,506		
16812	SY	Presidio Del Flores	\$21,465	\$17,563		
15298	SY	Presidio De Arboles	\$19,531		\$20,774	
18100	SY	Presidio De Cancion	\$23,148		\$24,621	
36355	SY	Presidio Del Cielo 1				\$47,600
10602	SY	Presidio Del Cielo 2				\$31,000
19312	SY	Presidio Monterey				\$60,042
27264	SY	Presidio De La Madera				\$76,100
12874	SY	Presidio Del Rio				\$37,372
12117	SY	Presidio De Valle				\$21,330
9088	SY	Madera Highlands	\$9,024	\$7,384		
44682	SY	Madera Highlands 2	\$33,190	\$29,110		
32565	SY	Madera Highlands 3	\$26,400	\$21,600		
1742	SY	Via De Santo Tomas			\$6,900	
			\$255,177	\$168,245	\$73,127	\$273,444

\$102,071

	Base + Accelerated	Base Tax Required	Accelerated
Steve Christy - District 4	\$80,728	\$75,327	\$5,401
Sharon Bronson - District 3	\$97,686	\$25,219	\$72,467
Ramon Valadez - District 2	\$336,402	\$135,811	\$200,591
	\$514.816	\$236.357	\$278.459

Year 2

			Crack Seal Scrub Seal		Cape Seal	Fog Seal	HA-5	Green Asphalt	Base Repair
1817	SY	Camino Antigua			\$7,268				
		Santo Tomas Del Norte	\$4,800		, ,				
6723	SY	Calle Del Ensayador area						\$169,000	
6000	SY	Calle de Cobre area		\$10,000					
46197	SY	Valle Verde Del Norte	\$13,800	\$55,200					
14384	SY	Colonias La Canada Lots 1-82	\$5,500	\$22,000					
10451	SY	La Canada Norte	\$3,900	\$15,600					
8936	SY	Santo Tomas Village Lots 1-37	\$3,400	\$13,600					
4880	SY	Presidios Rancho Sahuarita	\$2,400			\$10,000			
17721	SY	Presidio De Las Estrellas	\$6,000				\$39,000		\$9,000
27415	SY	Sonora at Rancho Sahuarita	\$8,000				\$60,300		
1893	SY	W. Calle Arroyo Norte			\$7,600				
9845	SY	Pesidio De La Luna				\$22,510			
9998	SY	Las Qunitas De Santo Tomas			\$37,000				
3938	SY	Mountain View Estates	\$1,500	\$6,000					
29930	SY	La Hoya Verde 3	\$4,400	\$17,600					
8482	SY	La Hoya Verde Block B					\$17,000		
			\$53,700	\$140,000	\$51,868	\$32,510	\$116,300	\$169,000	\$9,000

		Base Tax	
	Proposed	Required	Accelerated
Steve Christy - District 4	\$77,600	\$75,327	\$2,273
Sharon Bronson - District 3	\$292,668	\$25,219	\$267,449
Ramon Valadez - District 2	\$148,410	\$135,811	\$12,599
	\$518,678	\$236,357	\$282,321



MEMORANDUM

TRANSPORTATION

To: Rob Lane, P.E., PTOE – Pavement Preservation Manager

From: Beth Abramovitz, P.E. – Town of Sahuarita Assistant Town Engineer

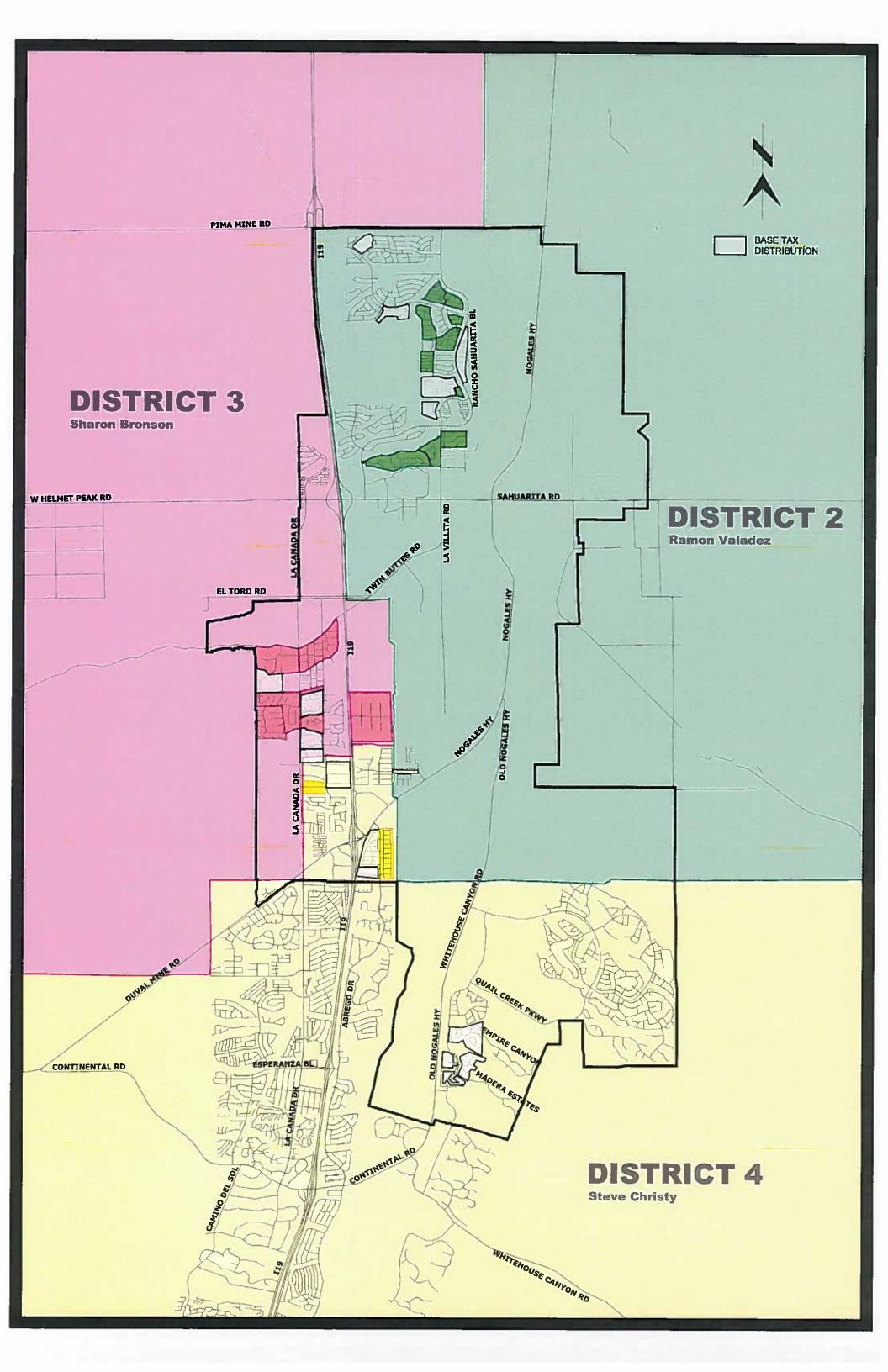
Date: September 25, 2017

Re: Regional Local Road Pavement Preservation Program – Year 2 Streets

Per the Memorandum of August 29, 2017 regarding the Financing Options for the Local Road Repair Program, the Town of Sahuarita would like to submit the list of roads recommended for inclusion in Year 2 of the Regional Local Road Pavement Preservation Program.

Please find attached for your use three "slides" in the format presented for Year 1. Slide 1 outlines the neighborhoods, treatment types, miles of road, distribution of the preservation areas, etc. Slide 2 shows how the Town is leveraging our dollars in Year 2 and slide 3 is a map of the Town that includes Year 1 and 2 of the pavement preservation with the base tax distribution color coded in each district.

Should you have any questions, or require additional information, please do not hesitate to contact me.



Proposed Neighborhoods and Treatment Types (Year 2)

_	Crack Seal	Scrub Seal	Chip Seal with Cape Seal	Fog Seal	HA-5	Green Asphalt	Base Repair
	CIECK Seal	SCIUD SEEL	Cape Seal	rog Seal	NA-3	Green Aspnaic	base Repair
Camino Antigua					7 81011041114114141414	\$44,000	
Santo Tomas Del Norte	\$4,800	\$19,200					
Valle Verde Del Norte	\$13,800	\$55,200					
Colonias La Canada Lots 1-82	\$5,500	\$22,000					
La Canada Norte	\$3,900	\$15,600					10.10 13
Santo Tomas Village Lots 1-37	\$3,400	\$13,600					
Presidios Rancho Sahuarita	\$2,400			\$10,000			
Presidio De Las Estrellas	\$6,000	\$26,200					\$9,000
Sonora at Rancho Sahuarita	\$8,000	\$41,000					
W. Calle Arroyo Norte		-				\$49,000	
Via De Santo Tomas						\$46,000	
Las Qunitas De Santo Tomas			\$37,000				
Mountain View Estates	\$1,500	\$6,000		W			
La Hoya Verde 3	\$4,400	\$17,600					
La Hoya Verde Block B					\$17,00	0	10

These proposed pavement preservation treatments will include close to 18 miles* of local roads.

	Proposed	Base Tax Required			
Steve Christy - District 4	\$123,600	\$75,327			
Sharon Bronson - District 3	\$169,600	\$25,219			
Ramon Valadez - District 2	\$135,200	\$135,811			



Leveraging our Dollars to Get More Miles of Pavement Preservation – Year 2

- Total for all work proposed = \$482,100.
- The total includes Crack Seal which is anticipated to cost approximately \$53,700 if completed by a Contractor.
- 5
- Town owns the equipment to Crack Seal and can complete the same amount of work for approximately \$21,480. Will utilize a portion of our fall pavement preservation program money to complete this work.
- Town will Crack Seal prior to other treatments.
- The Year 1 program includes \$640,660 of pavement preservation to allow flexibility to the program. Any streets not completed as part of the Year 1 plan will be moved to Year 2. Year 2 includes \$428,400 of pavement preservation. The average of the programs is \$534,000 which is in line with the Town's allotment.

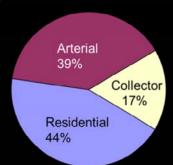




Some information about Sahuarita...

- Sahuarita's roads range in age from over 55 years old to new.
- The roads fall into 3 main categories arterials, collectors and residential.







- Linear miles are a straight measure along the center line of a road (however, roads have varying widths).
- Lane miles are measured along the center line of each lane this is a better measure of the amount of surface area to maintain.

Road Ratings

- The Town utilizes the PASER (PAvement Surface Evaluation and Rating) system to evaluate the condition of roads.
- PASER is a rating system based on the surface conditions (roughness, potholes, etc.) as described in the manual developed by the University of Wisconsin.
- The region uses a special van which determines road conditions on the Arterial and Collector network, roughly every two years (the most recent van survey and update for Sahuarita was completed in 2016).
- Local roads are evaluated by a physical survey of the road condition.
- Pavement ratings are available for 100% of the Town's arterial and collector roads. The Town will have compiled rating data for 100% of the Town's residential roads by the end of this year.





Existing Pavement Preservation Efforts

- The Town budgets for approximately \$350,000 in pavement preservation each year which is broken into two rounds of pavement preservation programs.
- In the fall the Town focuses on residential streets with arterial and collector streets being the primary focus of the spring program.
- The Town's pavement preservation program is designed to include not only those roads in the worst condition, but to ensure roads in good condition do not deteriorate.
- Each year approximately 25% of the pavement preservation budget is spent on roads in the "poor" category with treatments designed to bring them at least into a "fair" rating. The remaining budget is spent on roads in the "good" and "fair" categories to ensure they do not degrade further.
- The Town plans to continue with our own yearly Pavement Preservation Projects in addition to the Regional Local Repair Program.



The state of the s	vation Condition Guide for Agency mine Materials Usage
Pavement Condition Range 10-8	Qualified Treatments Various Fog Seal Applications
10-7	Crack Seal/Patching/Scrub Seal Various Fog Seal Applications Slurry Seal/Micro Surface
7-5	Crack Seal/Patching/Scrub Seal Slurry Seal/Micro Surface PMRE/CRS-2P Chip Seal PG-TR Chip Seal Cape Seal (Various) Double Chip Seal (Various) Conventional Overlay
5-3	Crack Seal/Patching/Scrub Seal Asphalt Rubber Chip/Cape Seal Double Chip Seal (Various) Hot in Place Recycling/Seal Three Layer Cape Seal (Various) SAMI/Rubber Modified Overlay Mill and Fill
3-0	Crack Seal/Patching/Scrub Seal SAMI/Rubber Modified Overlay Cold in Place Recycling/Seal Reconstruction

Type of treatments typically considered by the Town based on the pavement condition.

However, due to limited funding the types of treatments typically used are highlighted.



In a Perfect World...

To bring all streets within the jurisdiction of the Town of Sahuarita to a PASER rating of 7 to 8 (Good) today:

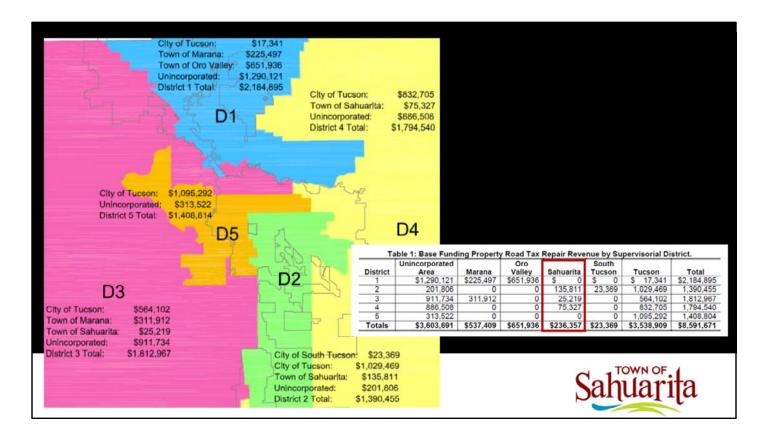
Residential \$ 2,460,700 Collector \$ 3,922,900 Arterial \$11,158,200

Total = \$17,541,800

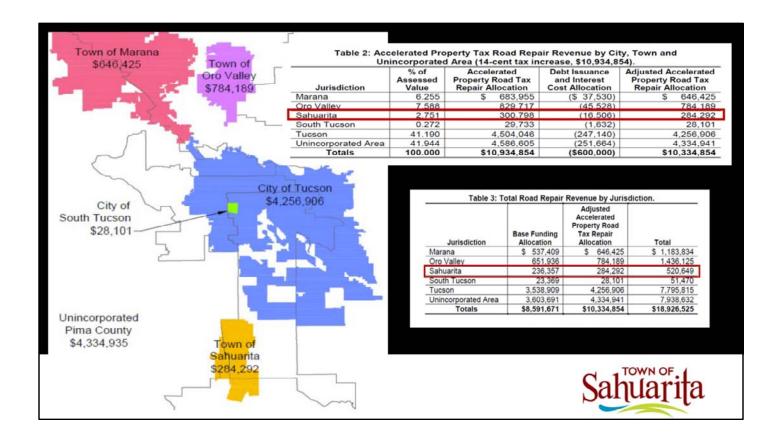




- The City has discussed "rolling over" their first year of funds.
- If Sahuarita could "borrow" a portion of the City's first year's allotment (equal to our next four years) and return our remaining four years back to the City, the Town of Sahuarita could bring ALL OF OUR RESIDENTIAL STREETS TO A PASER RATING OF 7 TO 8 IN YEAR ONE.



Sahuarita is part of Districts 2, 3 and 4.



How do our roads compare to the other jurisdictions?

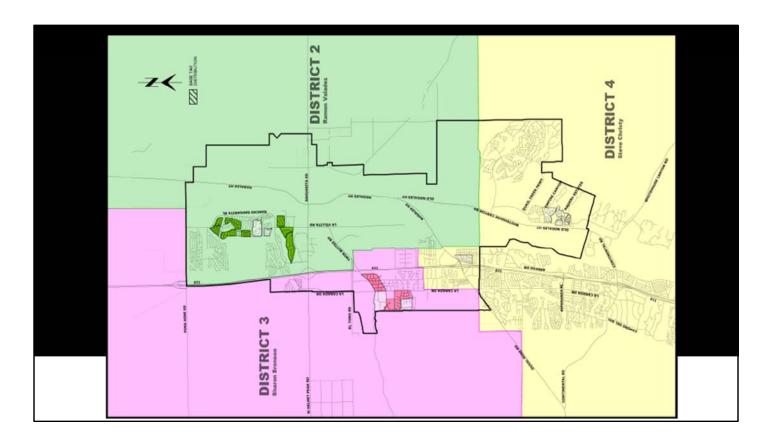
	TOW	N OF MAR	ANA		OF ORO V		THE OWNER OF TAXABLE PARTY.	N OF SAHU	OR OTHER DESIGNATION OF THE PERSON NAMED IN		Y OF TUCS	ON	PI	MA COUNT	Y
ROAD CONDITION	(OCI)			(OCI)		(PASER)			(OCI)			(PASER)			
	ARTERIAL	COLLECTOR	LOCAL	ARTERIAL	COLLECTOR	LOCAL	ARTERIAL	COLLECTOR	LOCAL	ARTERIAL	COLLECTOR	LOCAL	ARTERIAL	COLLECTOR	LOCA
UNRATED/ NEWLY ACCEPTED	0.00	0.00	10.17	0	0	0	0	0	0	0	0	2	2	2	62
FAILED/	0 - 39			0 - 40		0-3		0 - 39			1-3				
VERY POOR	0.00	0.00	0.00	0	0	0	0	0	0	13	16	379	8	109	212
2002	40 - 59			41 - 55		3 - 5		40 - 59			4-5				
POOR	0.00	0.00	0.07	6	7	29	0	1	1	100	48	690	90	201	582
5410	60 - 69			56 - 70		5-7		60 - 69			6				
FAIR	2.30	27.33	10.72	28	62	127	11	16	36	24	5	91	16	28	119
GOOD	70 - 79			71 - 85			7-8		70 - 79			7			
	4.49 35.64 59.9		59.90	35	13	84	14	4	18	66	7	85	47	60	102
VERY COOR	80 - 100			86 - 100			8 - 10			80 - 100			8 - 10		
VERY GOOD	12.95	35.74	37.70	16	4	6	7	0	3	97	9	71	37	32	158

- It is the Town's goal to keep all roads at a pavement condition of 5 (Fair) or greater.
- Due to our pavement preservation system, the Town currently has no roads that fall into the "Failed" condition category and less than 2% of our roads fall into the "Poor" category.

The Town's pavement preservation program is designed to include not only those roads in the worst condition, but to ensure roads in good condition do not continue to deteriorate.



- Town's goal is to never allow a road to fall below a rating of 5.
- Would like to be able to get all roads to a condition of good (7-8) or better.



- This map shows the areas the Town is proposing to complete as part of this year's program.
- White highlighted areas are those areas where the Base Funding allocation is utilized.

Proposed Neighborhoods and Treatment Types (Year 1) Patch with Other Crack Seal Scrub Seal Microsurface **Treatments** These proposed pavement La Joya Verde \$19,230 Las Quintas Serena \$34,221 \$36,400 preservation treatments Colona La Canada \$19,525 \$20,832 La Canada Norte \$22,198 \$18,162 will include close to 25 Rancho Buena Vista (ST13) \$18,071 \$14,786 miles* of local roads. Rancho Buena Vista (ST14) \$9,174 \$7,506 Presidio Del Flores \$21,465 \$17,563 Presidio De Arboles \$19,531 \$20,774 Presidio De Cancion \$23,148 \$24,621 Presidio Del Cielo 1 \$47,600 Presidio Del Cielo 2 \$31,000 \$60,042 Presidio Monterey Presidio De La Madera \$76,100 Presidio Del Rio \$37,372 Presidio De Valle \$21,330 Steve Christy - District 4 \$73,828 Pesidio De La Luna \$22,510 Sharon Bronson - District 3 \$97,686 Presidio De Madrid \$35,870 Ramon Valadez - District 2 \$469,146 \$34,183 Presidio De Las Montana's \$40,181 Presidio De La Tierra Madera Highlands \$9.024 \$7,384 Madera Highlands 2 \$33,190 \$29,110 Madera Highlands 3 \$26,400 \$21,600

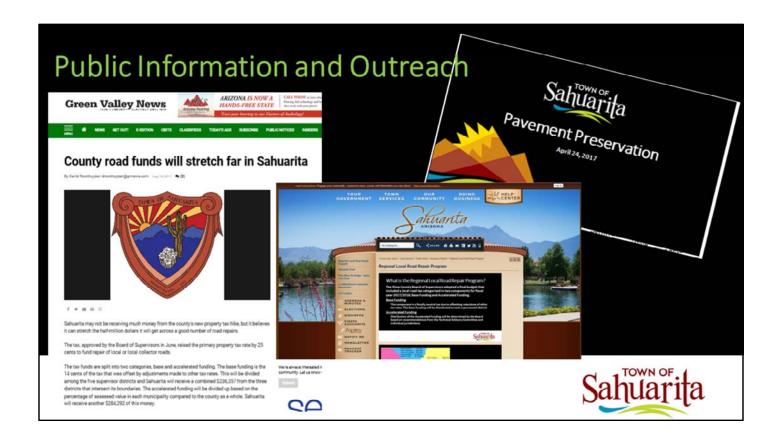
- The Regional Local Road Repair Program funds, combined with the Sahuarita pavement preservation program, will enable the Town of Sahuarita to perform pavement preservation treatments on approximately 25 miles of roads.
- *Local Roads are estimated to be two lanes totaling approximately 30 feet in width.
- Areas utilizing Base Funding are in RED.
- BOLD areas are utilizing Accelerated Tax.
- Remainder (unbolded black) is work being performed in conjunction with this project by Sahuarita.
- Majority of accelerated funding is being programmed in District 2.
- As you can see, the majority of the local roads / developments proposed in this District
 require base pavement patching as one of the elements. The roads in this category are
 all in the 5, or POOR to FAIR, range. Typically, this type of repair would significantly
 deplete our pavement preservation budget. With the additional funds from this program
 the Town can bring a much larger percent of our fair roads into the GOOD category than
 we'd be able to do with our own program.

Leveraging our Dollars to Get More Miles of Pavement Preservation

- Total for all work proposed = \$895,837 with \$520,649 from the Regional Local Road Repair Program.
- The total includes Crack Seal which is anticipated to cost approximately \$255,177 if completed by a Contractor.
- Town owns the equipment to Crack Seal and can complete the same amount of work for approximately \$102,000. Will utilize a portion of our fall pavement preservation program money to complete this work.
- Town will Crack Seal prior to other treatments.
- Cost for Pima County to provide inspections = \$20,826. Town personnel will perform inspections.
- Cost for Pima County to provide materials testing = \$5,206. Town will perform materials testing where necessary.





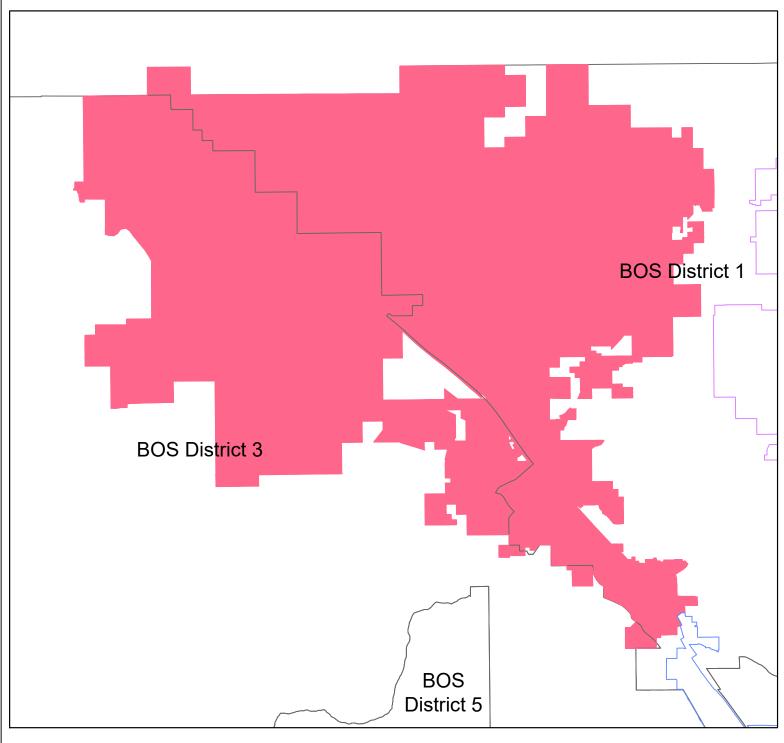


 Additionally, Public Works will be updating the Mayor and Council on the Pavement Preservation efforts with a presentation in the fall.

ATTACHMENT 3d

Town of Marana Two-Year Plan

Marana Distribution



Year 1 - 17-18

Year 2 - 18-19

Proposed Cost:

D1: \$548,709 D3: \$635,126

Total: \$1,183,835

Delta: -\$1 Town of Marana

Base Tax

District 1: \$225,497

District 3: \$311,912

Accelerated Tax

Distribution: \$646,425*

Total: \$1,183,834

Proposed Cost:

D1: \$548,709

D3: \$635,126

Total: \$1,183,835

Delta: -\$1

*A proportionate share of the Accelerated Property Tax Road Repair Revenues has been removed to pay financing costs, see Map 2



Pavement Preservation Program

Regional Local Road Repair Program

September 26, 2017



Town of Marana Pavement Preservation Program Overview

- Employs a proactive maintenance philosophy
- Delay the rate of deterioration
- Reduce overall maintenance cost
- Improve pavement conditions over time
- Increase safety
- Higher customer satisfaction



Roadway Conditions and Treatments

- Marana's strategy to combat road deterioration begins with the Asset
 Management System (AMS). By recording factors including: age, observable
 pavement distresses, and the number, and the length of cracks: the computer
 software is able to assign each roadway an Overall Condition Index (OCI).
- Deterioration Factors
 - Weather
 - Chemicals
 - Wear
 - Time
- Treatment Types:
 - Minor (Fog Seal, Crack Seal, HA5, PMM)
 - Moderate (Chip Seal, Scrub Seal, Slurry Seal, Mill and Overlay)
- The Town's current overall average OCI is 74%.



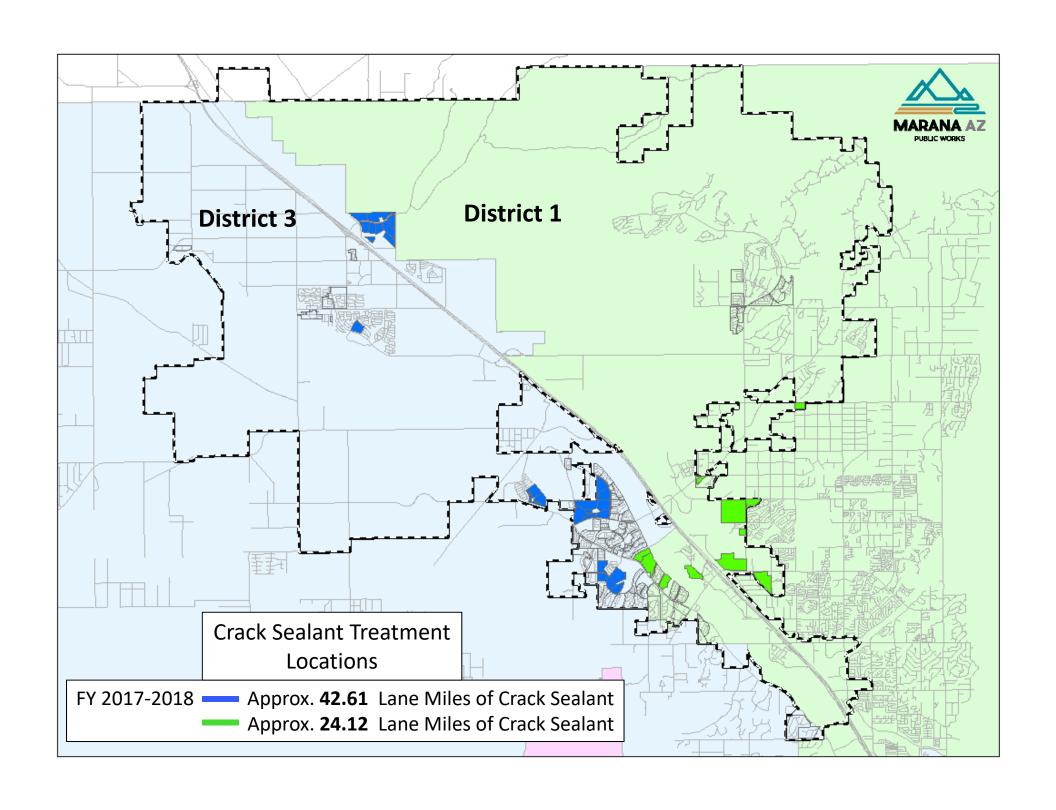
2017-2018 Subdivisions Crack Sealant Treatment

District 1

- Willow Edge Commons
- Cortaro Ranch
- Hartman Ten
- Hartman Vista
- Countryside Ridge
- Sombra Del Tecolote
- Oasis Hills II
- The Pines Phase I
- Continental Ranch Parcel 7
- Continental Ranch Parcel 9
- Continental Ranch Parcel 10

District 3

- Stone Ridge
- Continental Reserve Block 1&7,8,9
- San Lucas Subdivison
- Galdden Farms Block 9
- Parcel 11 Continental Ranch
- Marana Estates
- Sunflower Active Adult Community
- Saguaro Bloom Block 8B





2018-2019 Scheduled Subdivisions Treatment

District 1

PMM

- Willow Edge Commons
- Cortaro Ranch
- Hartman Ten
- Hartman Vista
- Countryside Ridge
- Sombra Del Tecolote
- Oasis Hills II
- The Pines Phase I
- Continental Ranch Parcel 7
- Continental Ranch Parcel 9
- Continental Ranch Parcel 10
- Stone Ridge

District 3

PMM

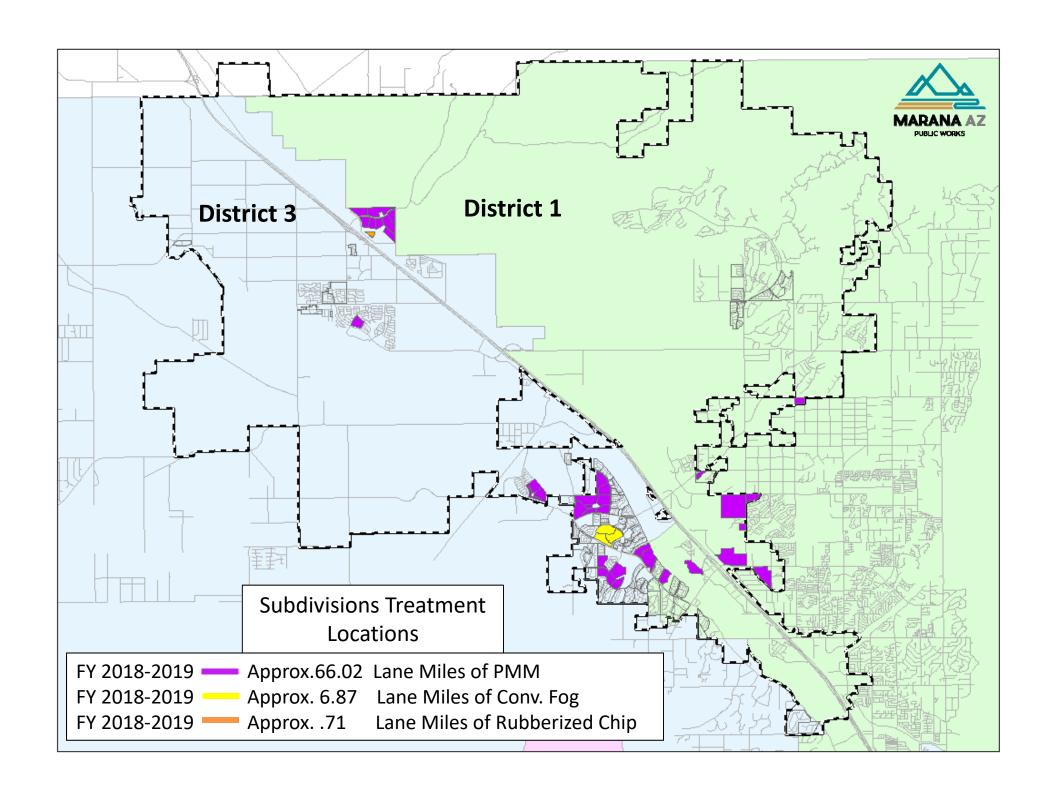
- Continental Reserve Block 1&7,8,9
- San Lucas Subdivision
- Gladden Farms Block 9
- Parcel 11 Continental Ranch
- Sunflower Active Adult Community
- Saguaro Bloom Block 8B

Conventional Fog

- Continental Ranch Parcel 16
- Continental Ranch Parcel 17
- Continental Ranch Parcel 18

Rubberized Chip

Marana Estates





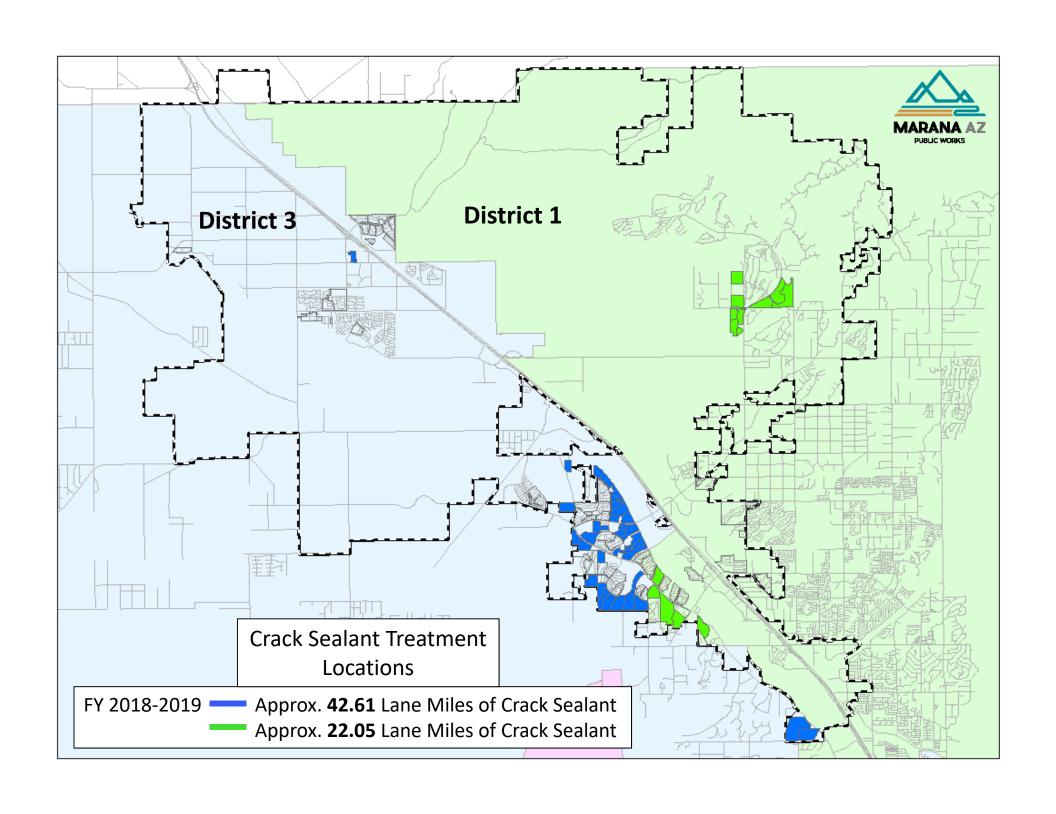
2018-2019 Subdivisions Crack Sealant Treatment

District 1

- The Villages at Dove Mountain
- Quail Crossing
- Bluffs at Dove Mountain
- Tortilla Reserve
- Parcel 8, 50, 51, 52C Continental Ranch

District 3

- Continental Ranch
- Continental Ranch Copper Moon
- Continental Ranch Parcel 15 The Villas
- Desert Traditions I, II
- Acacia Trails
- Cancion De La Luna
- El Rio At Continental Ranch
- Marana Vista
- Silverbell Hills Estates
- Los Morteros Estates
- Silver Moon
- Twin Peaks Highland
- Twin Peaks
- Sunset Ranch Estates
- Sunset Acres II
- Sonoran Moon



Pima County Region	onal Local Road Project	t	48,709) Marana Subo	ivisions	
SUBDIVISION AREA	Lane Miles	Sq. Yds.	Avg. OCI	2017-2018	2018-2019
VILLOW RIDGE COMMONS	2.74	29,208	84.59	Crack seal	\$40,307.00 Minor / PMN
CORTARO RANCH	4.73	37,504	76.53	Crack seal	\$51,755.53 Minor / PMN
HARTMAN TEN	0.19	2,027	82.43	Crack seal	\$2,796.80 Minor / PMN
HARTMAN VISTAS	5.27	45,118	76.85	Crack seal	\$62,263.30
COUNTRYSIDE RIDGE	1.25	45,118	76.85	Crack seal	\$15,018.07
OMBRA DEL TECOLOTE	0.33	3,307	82.28	Crack seal	\$4,563.81
DASIS HILLS II	0.43	5,141	99.66	Crack seal	\$7,095.04
THE VILLAGES AT DOVE MOUNTAIN	1.20	11,013	74.83		Minor / PMN Crack seal
THE VILLAGES AT REDHAWK	1.87	15,478	81.90		Crack seal
THE VILLAGES III AT DOVE MOUNTAIN	1.90	14,462	83.26		Crack seal
THE VILLAGES IV AT DOVE MOUNTAIN	0.55	5,724	96.57		Crack seal
QUAIL CROSSING	2.77	24,182	93.11		Crack seal
QUAIL CROSSING II	2.47	21,022	87.41		Crack seal
BLUFFS AT DOVE MOUNTAIN	4.19	36,754	94.46		Crack seal
TORTOLITA RESERVE	1.58	15,369	98.39		Crack seal
SUBDIVISION AREA	Lane Miles	Sq. Yds.	Avg. OCI	2017-2018	2018-2019
HE PINES PHASE I	2.08	21,287	80.26	Crack seal	\$25,544.28 Minor/PMM
PARCEL 7 CONTINENTAL RANCH	1.77	17,696	80.10	Crack seal	\$21,235.18 Minor/PMM
PARCEL 8 CONTINENTAL RANCH	2.37	25,552	98.66		Crack seal
PARCEL 9 CONTINENTAL RANCH	3.79	40,311	98.04	Crack seal	\$48,373.32 Minor/PMM
PARCEL 10 CONTINENTAL RANCH	1.81	18,788	79.07	Crack seal	\$22,545.06
CONTINENTAL RANCH PARCEL 50	1.15	13,267	99.02		Minor/PMM Crack seal
CONTINENTAL RANCH PARCEL 51	4.30	33,515	97.14		Crack seal
CONTINENTAL ESTATES PARCEL 52C	1.17	10,216	85.06		Crack seal
			Minor Treatments	\$0.00	\$301,497.39
			Crack Seal/ Asphalt Failures	\$548,709.00	\$247,211.61

Pima County Reg	gional Local Road Project	District $3 = (\$635,$,126) Marana Sul	bdivisions	
SUBDIVISION AREA	Lane Miles	Sq. Yds.	Avg. OCI	2017-2018	2018-2019
SAN LUCAS BLOCK 2	1.88	19,622	86.55	Crack seal	\$27,078.97 Minor/PMM
SAN LUCAS BLOCKS 3-4 3.05		32,042 93		Crack seal	\$44,218.28 Minor/PMM
SAN LUCAS BLOCK 5	1.13	12,013	96.08	Crack seal	\$16,577.79 Minor/PMM
SAN LUCAS BLOCKS 6 (Lots 61 -115)	1.03	9,257	90.09	Crack seal	\$12,774.52
SAN LUCAS BLOCK 7	1.27	11,856	99.00	Crack seal	\$19,918.08
SAN LUCAS BLOCK 8	1.39	13,081	99.60	Crack seal	Minor/PMM \$18,051.60
SAN LUCAS BLOCK 9	1.42	14,164	89.35	Crack seal	Minor/PMM \$19,546.94
SAN LUCAS BLOCK 11	1.28	12,611	89.84	Crack seal	Minor/PMM \$17,402.72
SAN LUCAS BLOCK 12	1.03	10,926	98.00	Crack seal	Minor/PMM \$18,355.68
					Minor/PMM
GLADDEN FARMS BLOCK 9	0.94	9,365	88.18	Crack seal	\$11,237.59
MARANA VISTA	1.36	8,873	54.92		Crack seal
MARANA ESTATES		5,204	64.28	Crack seal	\$24,843.68 Moderate Rub/Chip
SUNSET ACRES II	1.28	10,956	93.74		Crack seal
SILVERBELL HILLS ESTATES	3.43	26,184	81.74		Crack seal
SONORAN MOON	0.48	5,662	81.11		Crack seal
DESERT TRADITIONS I	1.05	9,689	64.74		Crack seal
DESERT TRADITIONS II	1.06	11,045	50.66		Crack seal
SUBDIVISION AREA	Lane Miles	Sq. Yds.	Avg. OCI	2017-2018	2018-2019
ACACIA TRAILS	0.58	5,483	75.76		Crack seal
CANCION DE LA LUNA	1.23	13,803	63.16		Crack seal
EL RIO AT CONTINENTAL RANCH	1.29	13,780	72.71		Crack seal
SONORAN VISTA	1.10	11,455	76.12		Crack seal
LOS MORTEROS ESTATES	0.86	6,045	68.91		Crack seal
SILVER MOON	1.71	13,314	69.44		Crack seal

nal Local Road Projec	t District $3 = (\$635)$,126) Marana Sul	bdivisions	
Lane Miles	Sq. Yds.	Avg. OCI	2017-2018	2018-2019
1.62	14,452	87.05		Crack seal
1.39	10,382	74.39		Crack seal
1.06	9,321	93.67		Crack seal
2.43	23,170	80.23	Crack seal	\$27,803.75 Minor/PMM
1.09	11,442	77.58	Crack seal	\$13,729.86 Minor/PMM
1.36	12,516	78.21	Crack seal	\$15,018.67 Minor/PMM
2.45	21,664	86.73	Crack seal	\$25,997.08 Minor/PMM
1.23	13,358	83.86		Crack seal
1.20	12,336	85.71		Crack seal
1.37	11,866	81.33		Crack seal
1.35	12,301	78.57		Crack seal
2.15	20,859	83.86		Crack seal
1.72	17,347	94.30		Crack seal
1.47	13,354	84.84		Crack seal
2.27	26,097	66.00		Crack Seal
1.92	22,420	100.00		Crack seal
2.35	24,879	98.01		Crack seal
0.83	9,551	89.44		Crack seal
2.61	27,228	43.52		\$13,028.81
1.83	17,880	48.80		CQS Fog \$8,555.58
2.44	24,224	49.97		CQS Fog \$11,591.07 CQS Fog
	1.62 1.39 1.06 2.43 1.09 1.36 2.45 1.23 1.20 1.37 1.35 2.15 1.72 1.47 2.27 1.92 2.35 0.83 2.61 1.83	Lane Miles Sq. Yds. 1.62 14,452 1.39 10,382 1.06 9,321 2.43 23,170 1.09 11,442 1.36 12,516 2.45 21,664 1.23 13,358 1.20 12,336 1.37 11,866 1.35 12,301 2.15 20,859 1.72 17,347 1.47 13,354 2.27 26,097 1.92 22,420 2.35 24,879 0.83 9,551 2.61 27,228 1.83 17,880	Lane Miles Sq. Yds. Avg. OCI 1.62 14,452 87.05 1.39 10,382 74.39 1.06 9,321 93.67 2.43 23,170 80.23 1.09 11,442 77.58 1.36 12,516 78.21 2.45 21,664 86.73 1.23 13,358 83.86 1.20 12,336 85.71 1.37 11,866 81.33 1.35 12,301 78.57 2.15 20,859 83.86 1.72 17,347 94.30 1.47 13,354 84.84 2.27 26,097 66.00 1.92 22,420 100.00 2.35 24,879 98.01 0.83 9,551 89.44 2.61 27,228 43.52 1.83 17,880 48.80	1.62 14,452 87.05 1.39 10,382 74.39 1.06 9,321 93.67 2.43 23,170 80.23 Crack seal 1.09 11,442 77.58 Crack seal 1.36 12,516 78.21 Crack seal 2.45 21,664 86.73 Crack seal 1.23 13,358 83.86 1.20 12,336 85.71 1.37 11,866 81.33 1.35 12,301 78.57 2.15 20,859 83.86 1.72 17,347 94.30 1.47 13,354 84.84 2.27 26,097 66.00 1.92 22,420 100.00 2.35 24,879 98.01 0.83 9,551 89.44 2.61 27,228 43.52 1.83 17,880 48.80

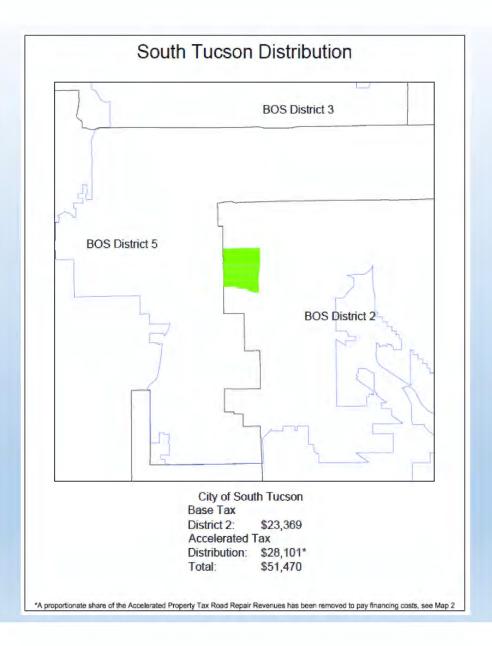
Pima County Regiona	I Local Road Projec	t District $3 = ($63)$	35,126) Marana Subo	livisions	
SUBDIVISION AREA	Lane Miles	Sq. Yds.	Avg. OCI	2017-2018	2018-2019
SUBDIVISION AREA	Lane Miles	Sq. Yds.	Avg. OCI	2017-2018	2018-2019
PARCEL 23 CONTINENTAL RANCH	1.23	11,758	46.01		Crack seal
PARCEL 26 CONTINENTAL RANCH	0.49	6,681	100.00		Crack seal
CONTINENTAL RANCH PARCEL 27A	0.99	10,456	47.91		Crack seal
CONTINENTAL RANCH PARCEL 27B	2.44	25,803	51.10		Crack seal
PARCEL 28 CONTINENTAL RANCH	1.92	18,261	100.00		Crack seal
CONTINENTAL RANCH PARCELS 38 & 40	1.54	16,124	60.86		Crack seal
CONTINENTAL RANCH PAR(36-38,40) PHASE II	1.54	17,263	53.94		Crack seal
CONTINENTAL RANCH PHASE III PAR. 36-38,40	1.67	16,293	44.27		Crack seal
CONTINENTAL RANCH COPPER MOON	1.94	21,085	67.49		Crack seal
CONTINENTAL RANCH ACTIVE ADULT COMMUNITY	2.85	21,872	79.29	Crack seal	\$26,245.87 Minor/PMM
CONTINENTAL RANCH SUNFLOWER PHASE II	2.06	20,463	78.69	Crack seal	\$24,555.07 Minor/PMM
CONTINENTAL RANCH SUNFLOWER PHASE III	3.23	25,575	79.04	Crack seal	\$30,690.26 Minor/PMM
CONTINENTAL RANCH SUNFLOWER PHASE IV	1.31	36,749	78.06	Crack seal	\$44,098.64 Minor/PMM
CONTINENTAL RANCH SUNFLOWER PHASE V	2.44	22,528	81.32	Crack seal	\$27,034.13 Minor/PMM
CONTINENTAL RANCH SUNFLOWER PHASE VI	2.20	17,460	81.09	Crack seal	\$20,951.60 Minor/PMM
CONTINENTAL RANCH SUNFLOWER PHASE VII	1.56	15,851	53.51	Crack seal	\$19,021.33 Minor/PMM
SAGUARO BLOOM BLOCK 8B	5.72	44,238	98.63	Crack seal	\$53,085.88 Minor/PMM
			Minor Treatments	\$0.00	\$591,413.46
			Crack Seal/ Asphalt Failures	\$635,126.00	\$43,712.54
			Total	\$635,126.00	\$635,126.00

ATTACHMENT 3e

City of South Tucson Two-Year Plan



Regional Local Road Repair Program Presentation



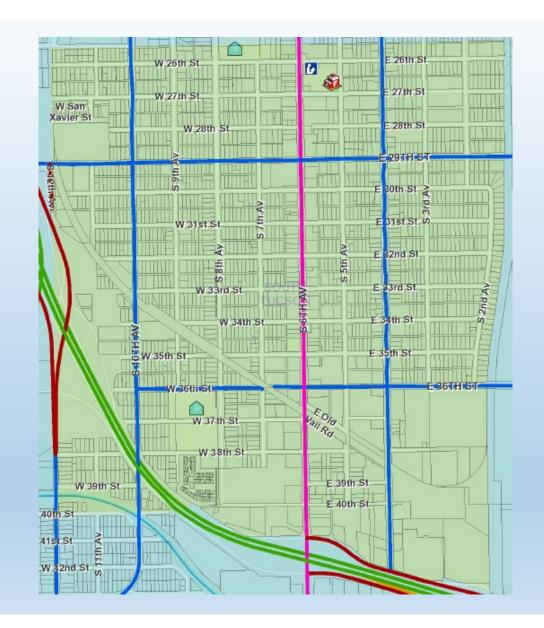
South Tucson Distribution is \$51,470, per year.

For the 2-Year Distribution of \$102,940 they have submitted a plan for \$96,460.

The City of South Tucson covers an area of about 1.2 square miles and is completely within BOS District 2.

CONDITION	PRINCIPAL ARTERIAL*	MINOR ARTERIAL LOCAL		TOTAL
Unrated	1.17	0	0	1.17
Failed	0	0	0	0
Poor	1.10	2.96	0	4.06
Fair	0	0	18.07	18.07
Good	0	0.99	0	0.99
Very Good	0	0	0 0	
TOTAL	2.27	3.95	18.07	24.29

^{* 1.17} miles of Unratred classified as Urban Interstate, ADOT maintains



Pavement Preservation Program

- In 2009-2010, Pima County DOT procured contractors to place chip seal on all local roads within the City of South Tucson.
- The roads were in Good to Fair condition at the time.
- · The majority of roads still maintain a Fair condition rating.
- The current Pavement Preservation Program for the City of South Tucson is a quick-acting Maintenance Division that fixes potholes and paves patch areas as they are reported.

Project Alternatives

PROJECT	STREET	FROM	ТО	LENGTH	MILES
	8TH AV	26TH ST	27TH ST	376.63	0.071
#1	8TH AV	27TH ST	28TH ST	372.00	0.070
	8TH AV	28TH ST	29TH ST	375.04	0.071
	5TH AV	29TH ST	30TH ST	347.59	0.066
#2A	5TH AV	30TH ST	31ST ST	373.94	0.071
	31ST ST	5TH AV	4TH AV	471.68	0.089
	E 32ND ST	4TH AV	3RD AV	478.25	0.091
#2B	E 32ND ST	3RD AV	2ND AV	726.19	0.138
	S 2ND AV	32ND ST	33RD ST	385.39	0.073
	S 9TH AV	END OF ROAD	35TH ST	247.94	0.047
	S 9TH AV	35TH ST	36TH ST	379.78	0.072
#3	W 36TH ST	7TH AV	8TH AV	472.44	0.089
#3	W 36TH ST	8TH AV	9TH AV	487.18	0.092
	S 7TH AV	36TH ST	37TH ST	348.45	0.066
	W 37TH ST	6TH AV	7TH AV	476.01	0.090

Due to the current classification of 36th Street, it cannot be funded as part of the RLRRP at this time.



Project Alternative Selection

	PROJECT INFORMATION TABLE											
PROJECT	ROADID	STREET	FROM	то	LENGTH	MILES	PASER	TREATMENT	COST (/SY)	COST/LENGTH	RUNNING TOTAL	REMOVAL OF 36th ST (3r)
	29385	8TH AV	26TH ST	27TH ST	376.63	0.071	6	SEAL COAT	\$4.50	\$6,779.30	\$6,779.30	
#1	34313	8TH AV	27TH ST	28TH ST	372.00	0.070	6	SEAL COAT	\$4.50	\$6,696.07	\$13,475.38	
#1	29566	8TH AV	28TH ST	29TH ST	375.04	0.071	6	SEAL COAT	\$4.50	\$6,750.69	\$20,226.07	
				SUBTOTAL	1123.67	0.213					\$20,226.07	
	31291	5TH AV	29TH ST	30TH ST	347.59	0.066	6	SEAL COAT	\$4.50	\$6,256.70	\$6,256.70	
#2A	54437	5TH AV	30TH ST	31ST ST	373.94	0.071	6	SEAL COAT	\$4.50	\$6,730.99	\$12,987.69	
#2/	20736	31ST ST	5TH AV	4TH AV	471.68	0.089	6	SEAL COAT	\$4.50	\$8,490.26	\$21,477.95	
				SUBTOTAL	1193.22	0.226					\$21,477.95	
	7472	E 32ND ST	4TH AV	3RD AV	478.25	0.091	6	SEAL COAT	\$4.50	\$8,608.54	\$8,608.54	
#2B	54031	E 32ND ST	3RD AV	2ND AV	726.19	0.138	6	SEAL COAT	\$4.50	\$13,071.35	\$21,679.89	
#ZD	21910	S 2ND AV	32ND ST	33RD ST	385.39	0.073	6	SEAL COAT	\$4.50	\$6,937.09	\$28,616.98	
				SUBTOTAL	1589.83	0.301					\$28,616.98	
	57770	S 9TH AV	END OF ROAD	35TH ST	247.94	0.047	6	SEAL COAT	\$4.50	\$4,463.00	\$4,463.00	\$4,463.00
	48871	S 9TH AV	35TH ST	36TH ST	379.78	0.072	6	SEAL COAT	\$4.50	\$6,836.06	\$11,299.06	\$11,299.06
	48873	W 36TH ST	7TH AV	8TH AV	472.44	0.089	5	SEAL COAT	\$4.50	\$8,503.94	\$19,803.00	
#3	11294	W 36TH ST	8TH AV	9TH AV	487.18	0.092	5	SEAL COAT	\$4.50	\$8,769.29	\$28,572.29	
	8013	S 7TH AV	36TH ST	37TH ST	348.45	0.066	6	SEAL COAT	\$4.50	\$6,272.02	\$34,844.31	\$17,571.08
	46467	W 37TH ST	6TH AV	7TH AV	476.01	0.090	6	SEAL COAT	\$4.50	\$8,568.14	\$43,412.45	\$26,139.23
				SUBTOTAL	1311.64	0.457					\$43,412.45	\$26,139.23

AVAILABLE=	\$51,470	\$102,940
ALTERNATIVE	COST	MILES
1+2A=	\$41,704.02	0.439
1+2B=	\$48,843.05	0.514
1+3=	\$63,638.52	0.670
2A+2B=	\$50,094.93	0.527
2A+3=	\$64,890.40	0.683
2B+3=	\$72,029.44	0.758
1+2A+2B=	\$70,321.00	0.740
1+2A+3=	\$85,116.47	0.896
1+2B+3=	\$92,255.51	0.971
1+2A+2B+3=	\$113,733.45	1.197
2A+2B+3=	\$93,507.38	0.984
1+2A+2B+3r=	\$96,460.23	1.015



Due to the current classification of 36th Street, it cannot be funded as part of the RLRRP.

ATTACHMENT 4

Supervisorial Maps