

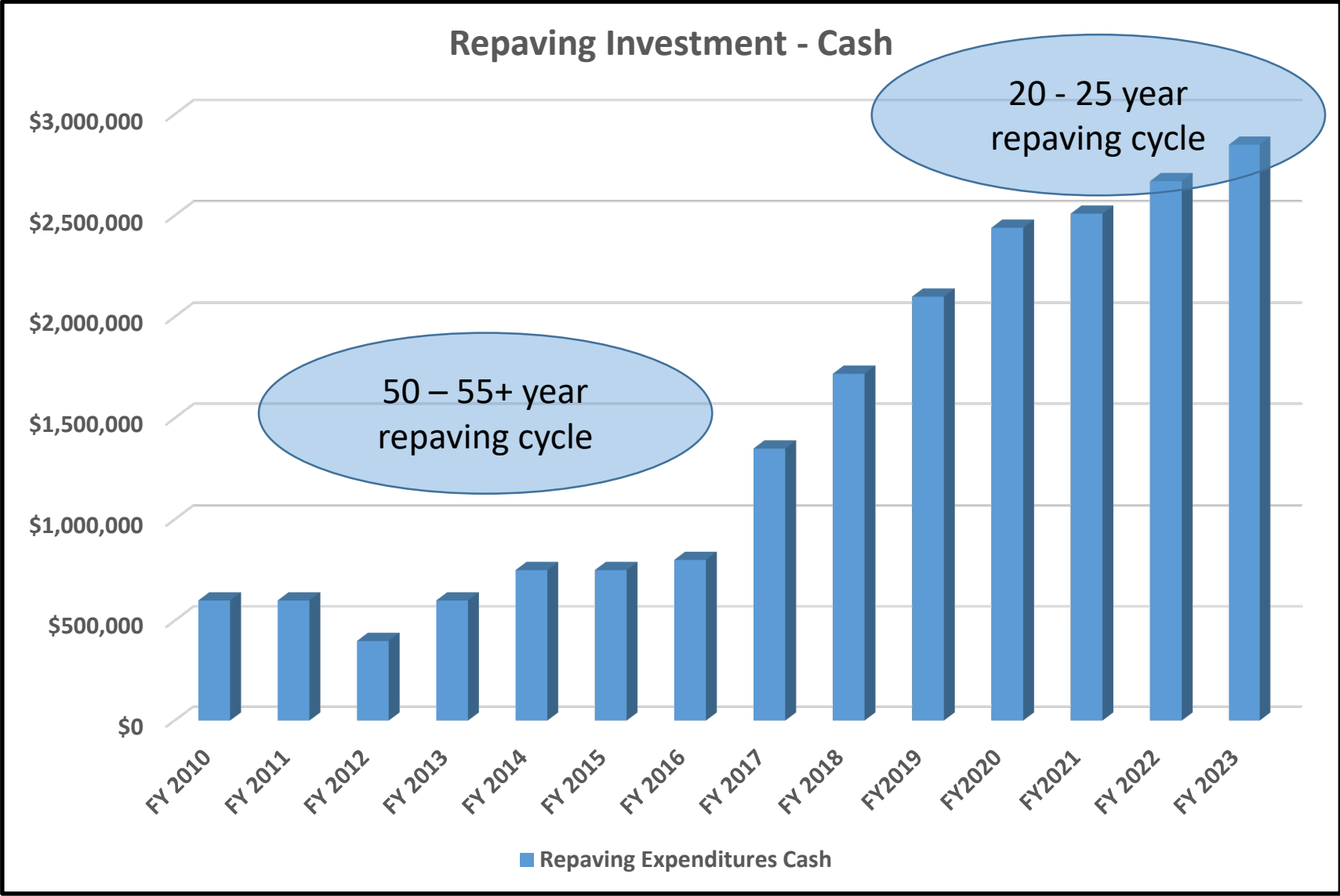
Repaving Update

7/19/22

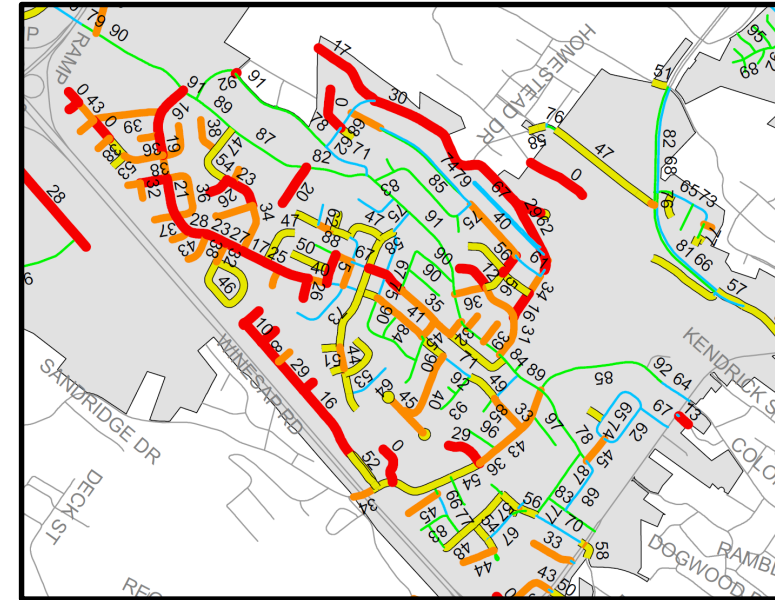
Ryan McReynolds

THE CITY OF KINGSPORT

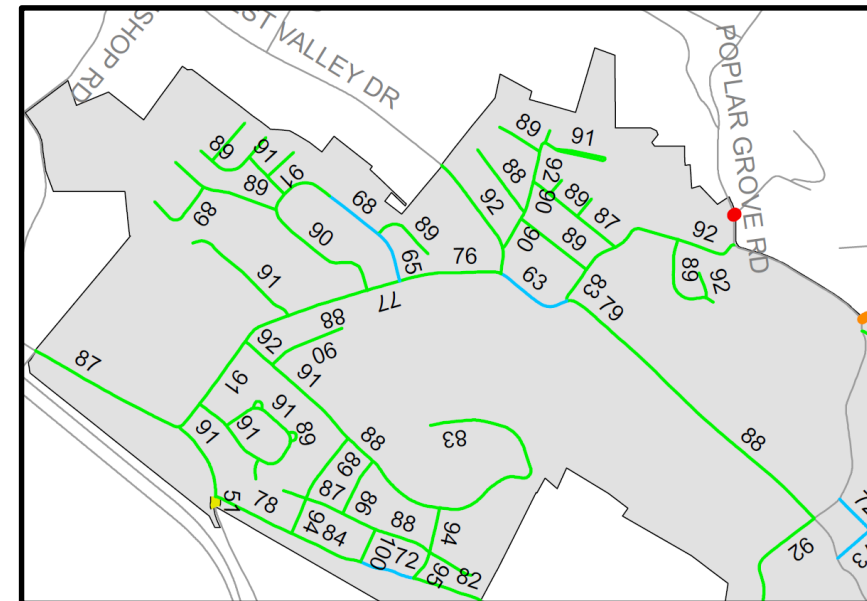




- **Program Goal**
 - **Manage a Data Driven Resurfacing Effort that maintains streets at or above PCI 70 over a 20 year period.**
 1. **Transparent Assessment**
 - LIDAR Assessment every 5 years
 2. **Transparent Paving Plan**
 - www.pavekingsport.com



2016 Data



2016 Data

- **Program Outcomes**

- **Manage a Data Driven Resurfacing Effort that maintains streets at or above PCI 70 over a 20 year period.**

1. **Transparent Assessment**

- 2016 - City Wide Average PCI, 60.65
- 2021 – City Wide Average PCI, 67.88

2. **Transparent Paving Plan**

Pavement Condition Index (PCI) Range	Percent of Network 2016	Percent of Network 2021	Percent Change from 2016 to 2021
86-100	21.44%	25.19%	3.75%
71-85	17.93%	25.30%	7.37%
56-70	18.55%	21.16%	2.61%
41-55	20.46%	15.13%	-5.33%
26-40	15.11%	10.64%	-4.47%
11-25	6.02%	2.55%	-3.47%
0-10	0.49%	0.03%	-0.46%
Total	100.00%	100.00%	0.00%

Growth is Desired

Reduction is Desired

- **Transparent Paving Plan**

- **Data Driven**

- Objective vs. Subjective

- **Blended Approach**

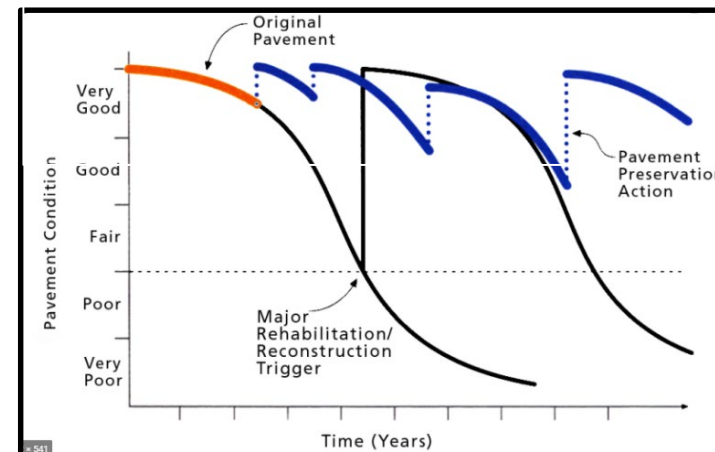
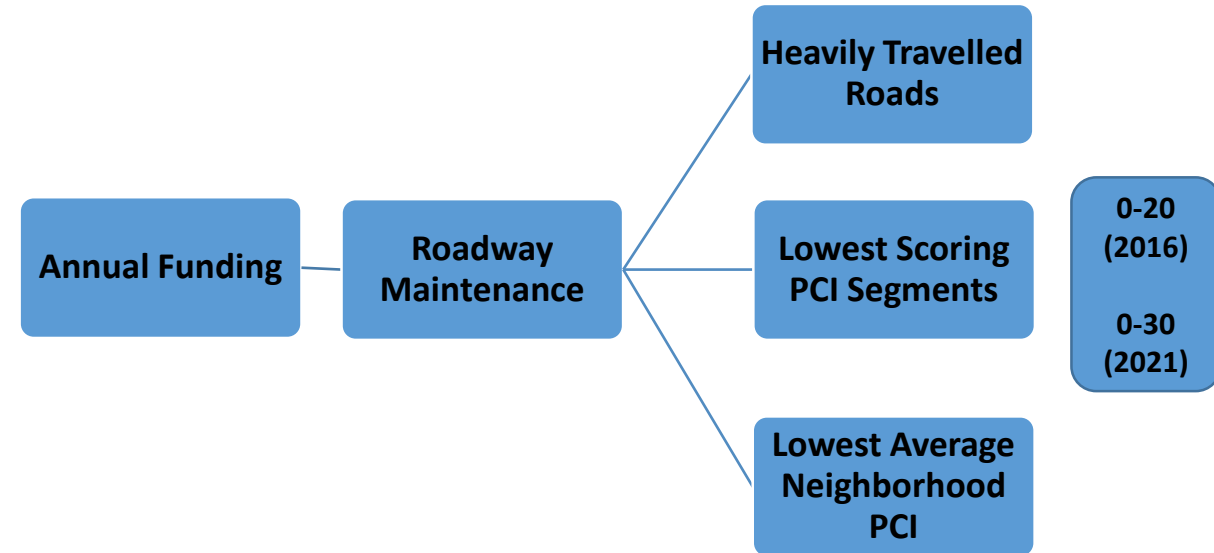
- Neighborhoods
 - Lowest Scoring PCI Street Segments
 - Main Roads

- **Maintenance Toolbelt**

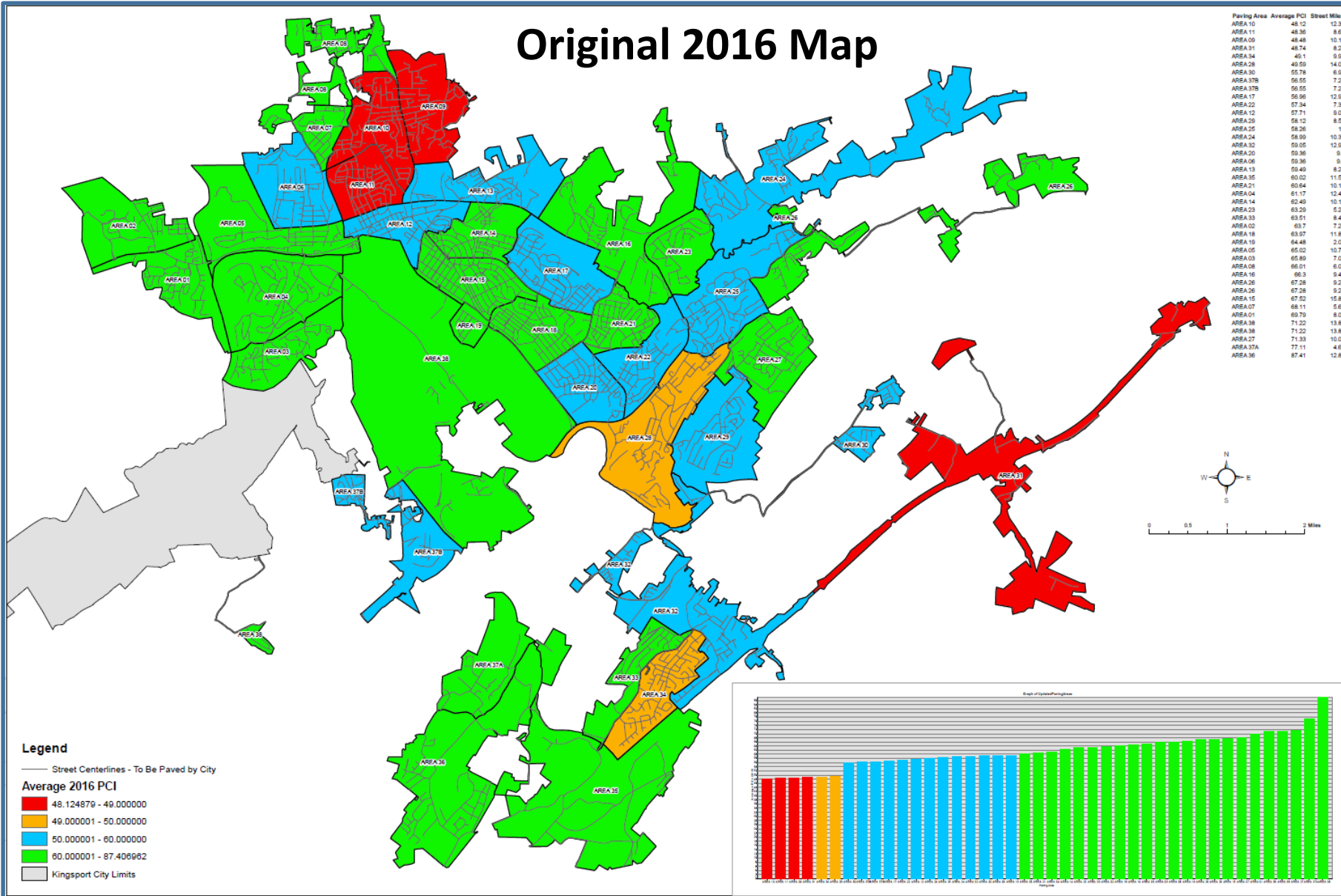
- Repave
 - Renew
 - Protect

- **Kingsport's Program**

- All-Inclusive (utilities)
 - Base Repairs
 - Asphalt Overlaid Concrete



Original 2016 Map



Paving Area	Average PCI	Street Miles
AREA 10	48.12	12.36
AREA 11	48.36	8.65
AREA 09	48.48	10.12
AREA 31	48.74	8.22
AREA 34	49.1	9.93
AREA 28	49.59	14.05
AREA 30	55.78	6.99
AREA 37B	56.55	7.21
AREA 37B	56.55	7.21
AREA 17	56.96	12.91
AREA 22	57.34	7.31
AREA 12	57.71	9.09
AREA 29	58.12	8.59
AREA 25	58.26	13
AREA 24	58.99	10.38
AREA 32	59.05	12.99
AREA 20	59.36	9.9
AREA 06	59.36	9.6
AREA 12	59.40	8.28

Average 2016 PCI

	48.124879 - 49.000000
	49.000001 - 50.000000
	50.000001 - 60.000000
	60.000001 - 87.406962
	Kingsport City Limits

2021 Neighborhood Map

Paving Area	Street Miles	Avg PCI 2021
AREA 09	10.121131	49.66
AREA 28	14.05228	51.44
AREA 17	12.909412	51.71
AREA 29	8.591557	55.48
AREA 14	10.148756	56.59
AREA 20	9.897712	58.7
AREA 24	10.3822	58.79
AREA 37B	7.214305	59.07
AREA 37B	7.214305	59.07
AREA 13	8.279787	59.33
AREA 19	2.069629	59.38
AREA 22	7.313287	59.8
AREA 15	15.85482	62.4
AREA 21	10.126041	62.72
AREA 13	8.279787	59.33
AREA 02	7.07868	62.46
AREA 26	9.225698	64.36
AREA 26	9.225698	64.36
AREA 18	11.874911	64.98
AREA 06	9.59527	65.54
AREA 23	5.29	66.55
AREA 25	13.000224	66.57
AREA 08	6.03036	66.71
AREA 27	10.078796	66.79
AREA 05	10.751972	67.76
AREA 04	12.479335	68.6
AREA 16	9.40755	68.75
AREA 02	7.262377	69.25
AREA 01	8.079673	69.89
AREA 30	6.992826	70.34
AREA 38	13.889308	71.37
AREA 36	13.889308	71.37
AREA 35	11.53632	74.6
AREA 07	5.621182	76
AREA 11	8.651648	81.32
AREA 10	12.362838	81.97
AREA 32	12.990819	84.55
AREA 31	8.220779	85.37
AREA 33	8.422606	86.62
AREA 36	12.891457	86.83
AREA 34	9.933323	87.55
AREA 37A	4.646557	89.9

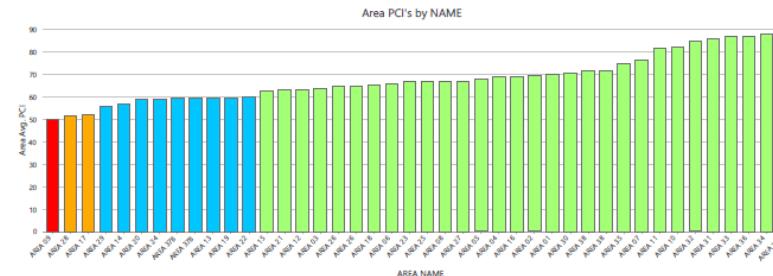
Paving Area	Street Miles	Avg PCI 2021
AREA 09	10.121131	49.66
AREA 28	14.05228	51.44
AREA 17	12.909412	51.71
AREA 29	8.591557	55.48
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AREA 19	2.069629	59.38
AREA 22	7.313287	59.8
AREA 15	15.85482	62.4
AREA 21	10.126041	62.72

Average 2021 PCI

Below 50
50 to 55
55 to 60
Above 60

Legend

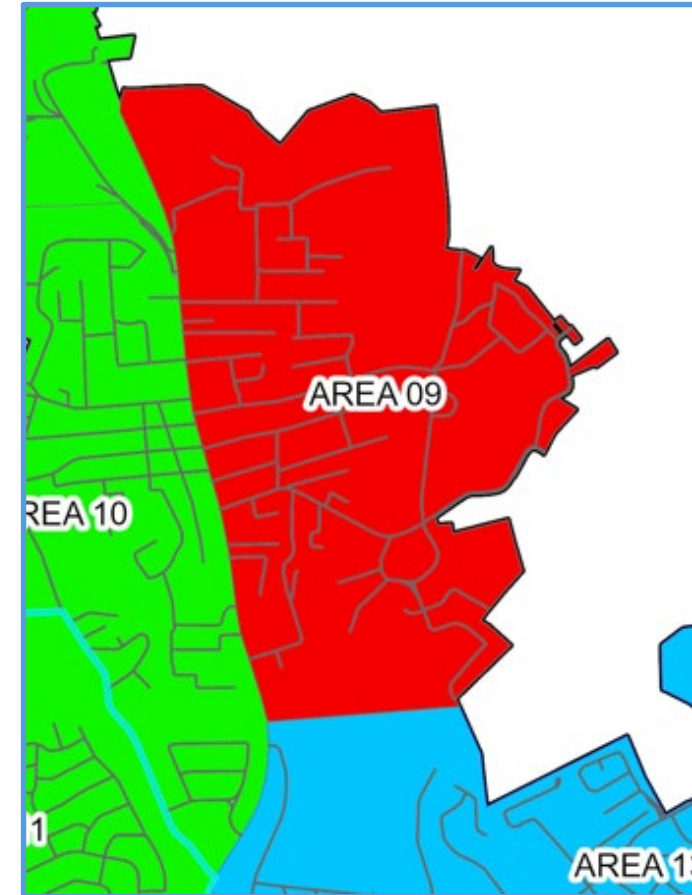
- Street Centerlines - To Be Paved by City
- Below 50
- 50 to 55
- 55 to 60
- Above 60



Pave Kingsport – Area Wide Paving

Paving Area	Street Miles	Avg PCI 2021
AREA 09	10.121131	49.66
AREA 28	14.05228	51.44
AREA 17	12.909412	51.71
AREA 29	8.591557	55.48
AREA 14	10.148756	56.59
AREA 20	9.897712	58.7
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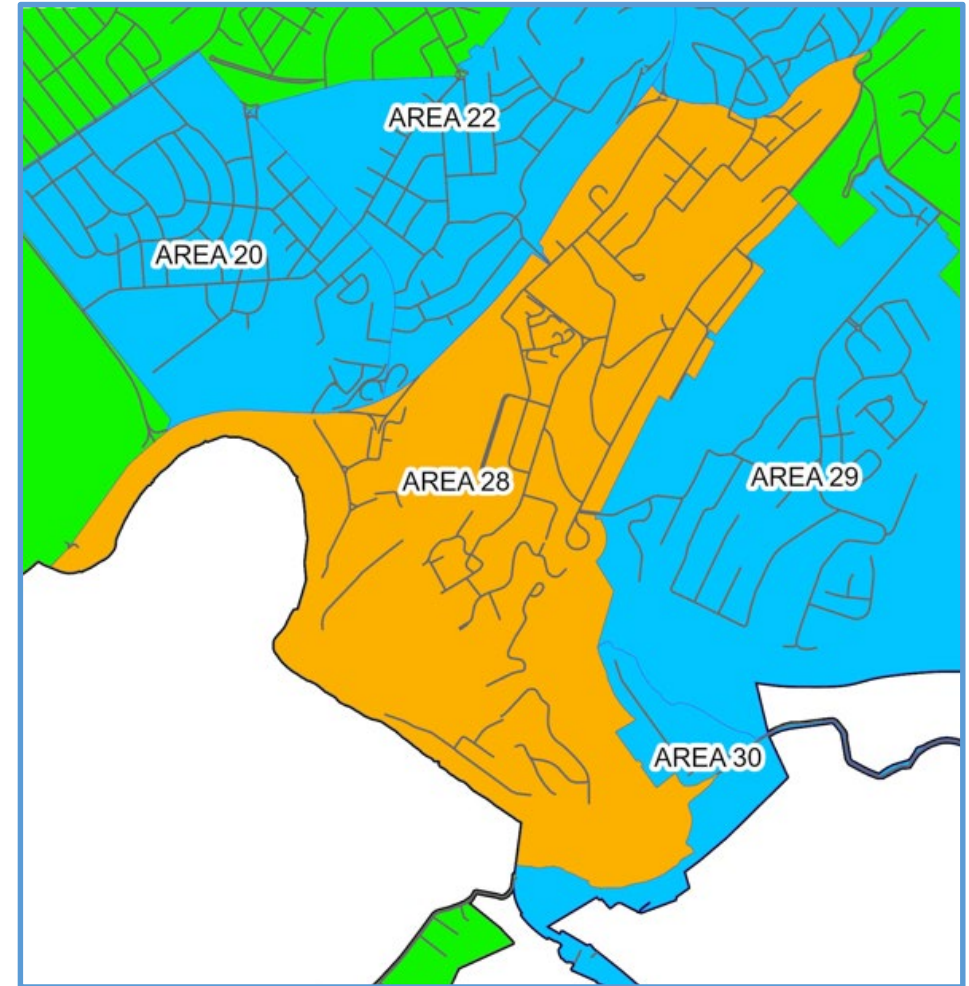
Neighborhood Priority #1
Area 9 – Eastern Lynn Garden



Pave Kingsport – Area Wide Paving

Paving Area	Street Miles	Avg PCI 2021
AREA 09	10.121131	49.66
AREA 28	14.05228	51.44
AREA 17	12.909412	51.71
AREA 29	8.591557	55.48
AREA 14	10.148756	56.59
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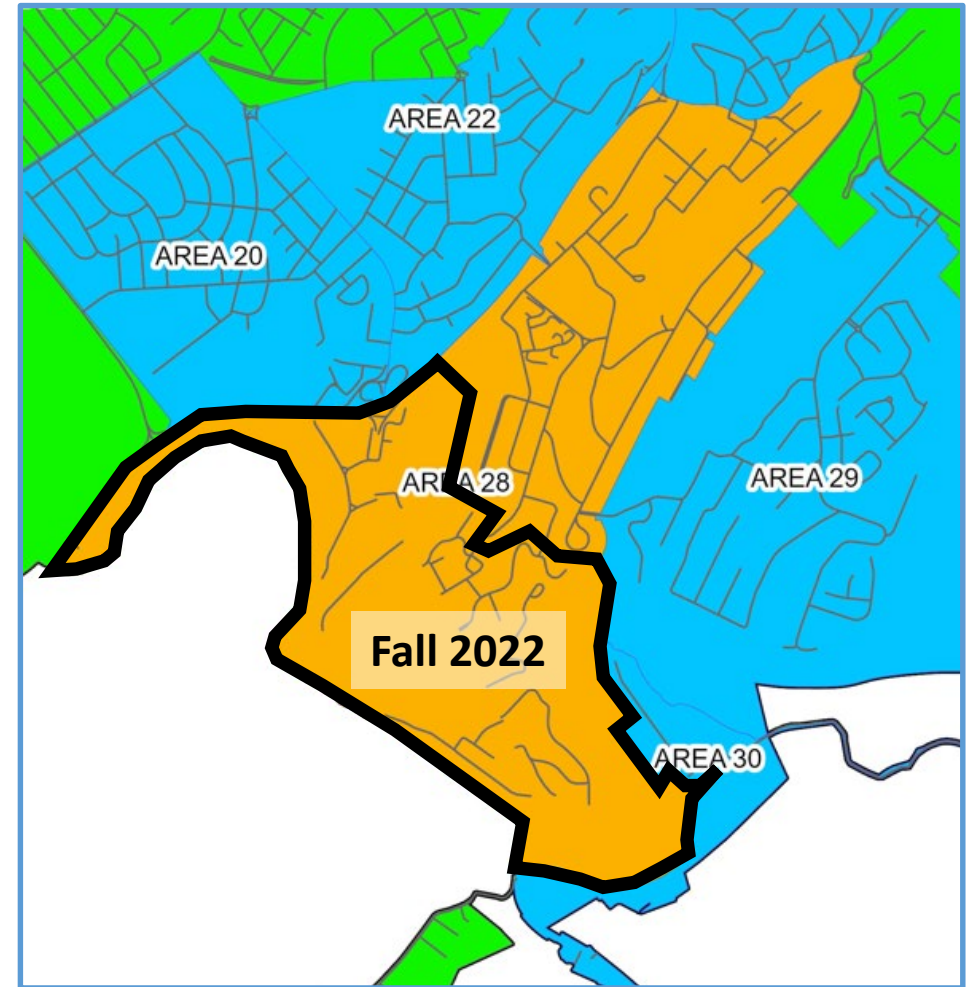
Neighborhood Priority #2
Area 28 – Thorton, Stratford,
Cliffside, Parkcliff, Wesley, Skyland



Pave Kingsport – Area Wide Paving

Paving Area	Street Miles	Avg PCI 2021
AREA 09	10.121131	49.66
AREA 28	14.05228	51.44
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Neighborhood Priority #2
Area 28 – Thorton, Stratford,
Cliffside, Parkcliff, Wesley, Skyland



Pave Kingsport – Area Wide Paving

Paving Area	Street Miles	Avg PCI 2021
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AREA 14	10.148756	56.59
AREA 20	9.897712	58.7
AREA 24	10.3822	58.79

Neighborhood Priority #3
Area 17 – Fairacres



Pave Kingsport – Area Wide Paving

Paving Area	Street Miles	Avg PCI 2021
AREA 09	10.121131	49.66
AREA 28	14.05228	51.44
AREA 17	12.909412	51.71
AREA 29	8.591557	55.48
AREA 14	10.148756	56.59
AREA 20	9.897712	58.7
AREA 24	10.3822	58.79

Neighborhood Priority #4
Area 29 – Western Cooks Valley



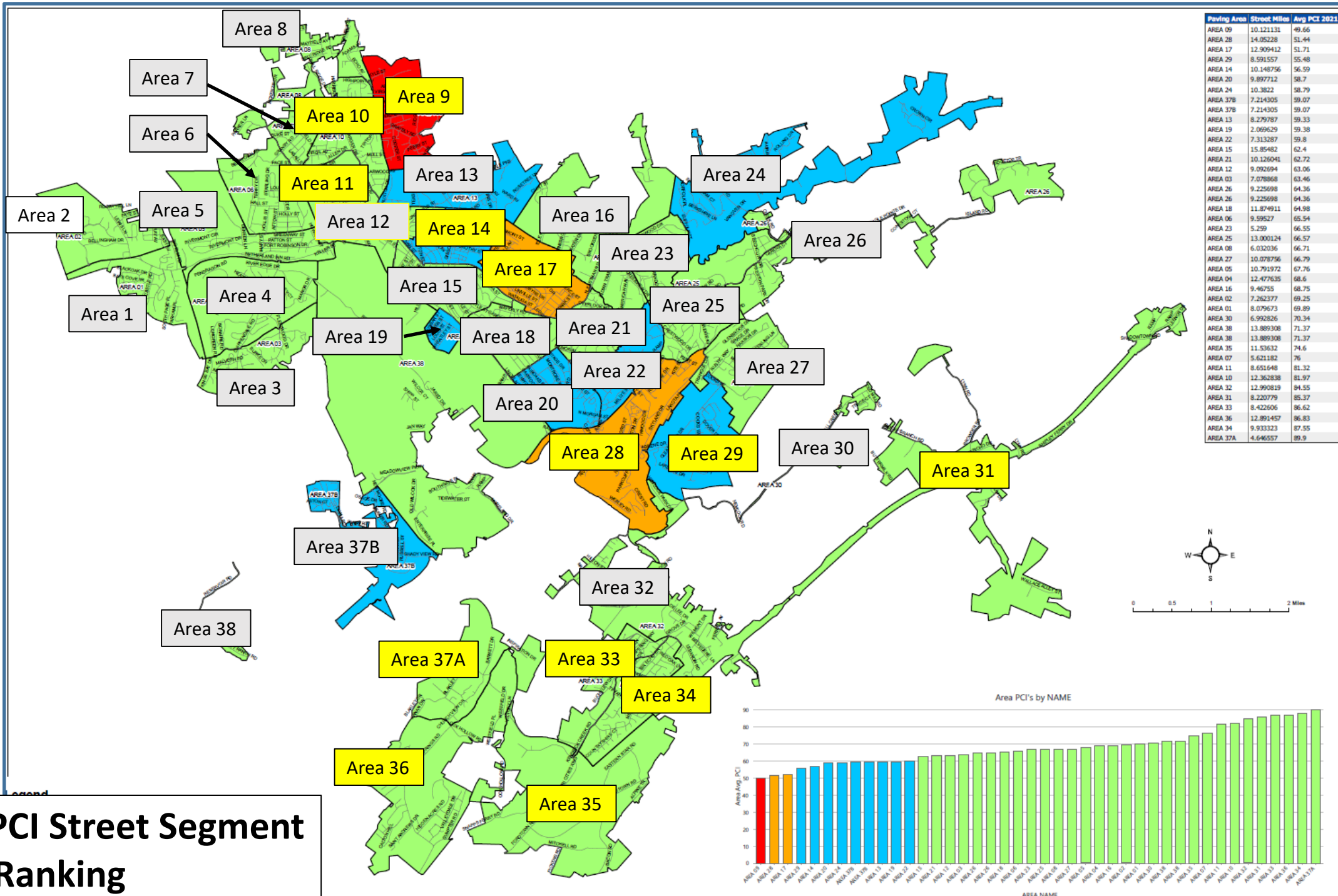
Pave Kingsport – Area Wide Paving

Paving Area	Street Miles	Avg PCI 2021
AREA 09	10.121131	49.66
AREA 28	14.05228	51.44
AREA 17	12.909412	51.71
AREA 29	8.591557	55.48
AREA 14	10.148756	56.59
AREA 20	9.897712	58.7
AREA 24	10.3822	58.79



Neighborhood Priority #5

Area 14 – Gibson Town, Nelson Town
Radial Streets

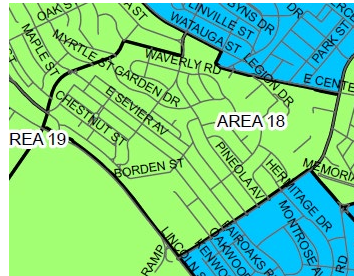


Lowest PCI Street Segment Priority Ranking

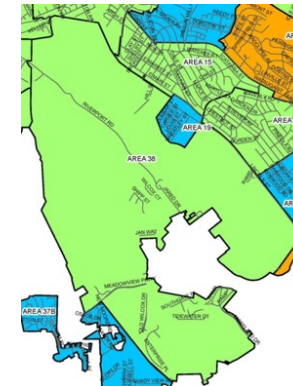
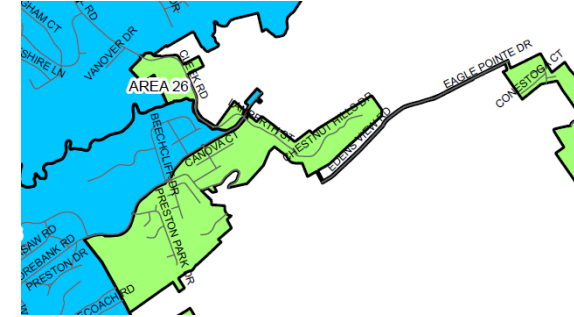
Pave Kingsport – Lowest PCI Segment Ranking

Group #1 – 2.06 miles

- Area 19
 - PCI 18.39
 - 0.26 mile
- Area 18
 - PCI 19.09
 - 0.33 mile
- Area 04
 - PCI 19.87
 - 0.31 mile



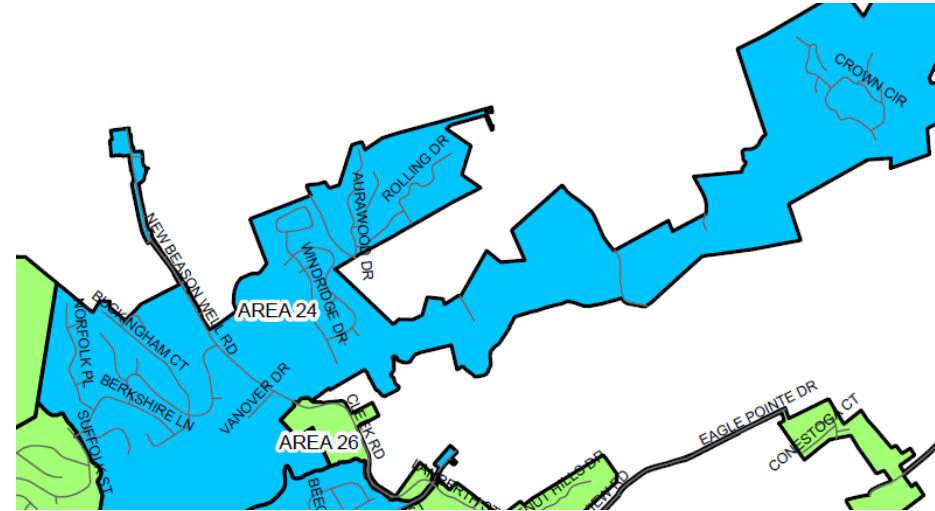
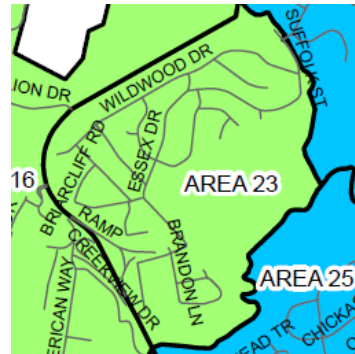
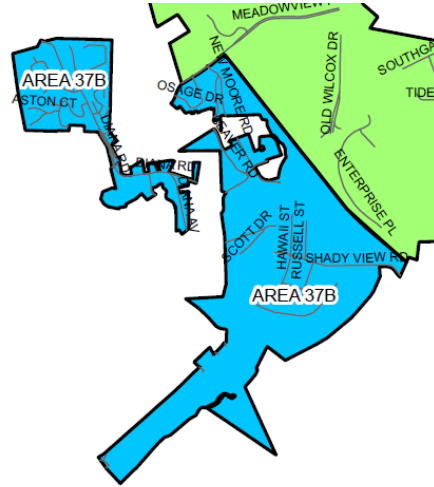
- Area 26
 - PCI 21.17
 - 0.81 mile
- Area 21
 - PCI 21.87
 - 0.05 mile
- Area 38
 - PCI 21.97
 - 0.30 mile



Pave Kingsport – Lowest PCI Segment Ranking

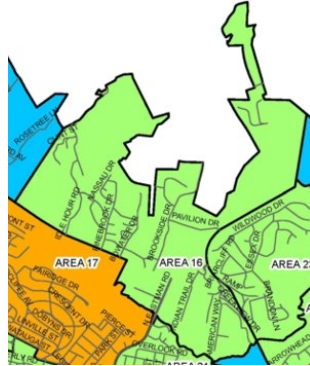
Group #2 – 2.30 miles

- Area 37B
 - PCI 21.47
 - 1.05 mile
- Area 24
 - PCI 23.16
 - 1.22 miles
- Area 23
 - PCI 23.90
 - 0.04 mile

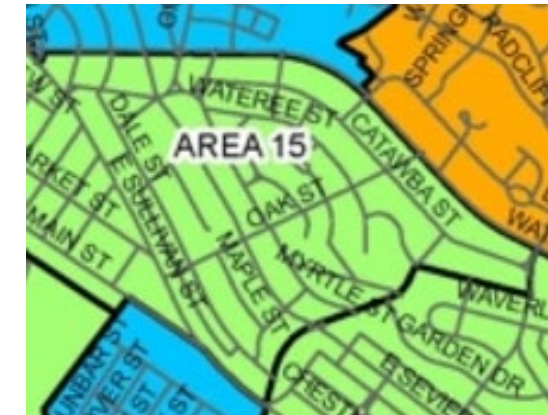


Group #3 – 2.11 miles

- Area 16
 - PCI 24.11
 - 0.43 mile
- Area 30
 - PCI 24.24
 - 0.10 mile
- Area 32
 - PCI 25.10
 - 0.01 mile

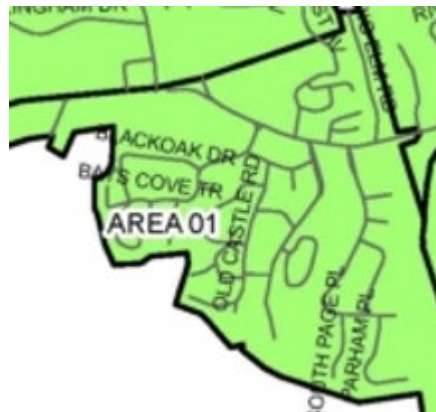


- Area 05
 - PCI 25.11
 - 0.41 mile
- Area 15
 - PCI 25.20
 - 0.30 mile



Group #3 (cont.) – 2.11 miles

- Area 20
 - PCI 25.73
 - 0.25 mile
- Area 01
 - PCI 25.90
 - 0.14 mile
- Area 22
 - PCI 26.11
 - 0.14 mile
- Area 12
 - PCI 26.65
 - 0.35 mile



Pave Kingsport – Lowest PCI Segment Ranking

Group #4 – 2.87 miles

- Area 03
 - PCI 26.69
 - 0.82 mile
- Area 25
 - PCI 26.88
 - 0.58 mile
- Area 13
 - PCI 27.77
 - 0.50 mile
- Area 06
 - PCI 28.41
 - 0.57 mile



Group #4 – 2.87 miles

- Area 07
 - PCI 28.00
 - 0.17 mile
- Area 27
 - PCI 29.01
 - 0.18 mile
- Area 08
 - PCI 30.00
 - 0.06 mile



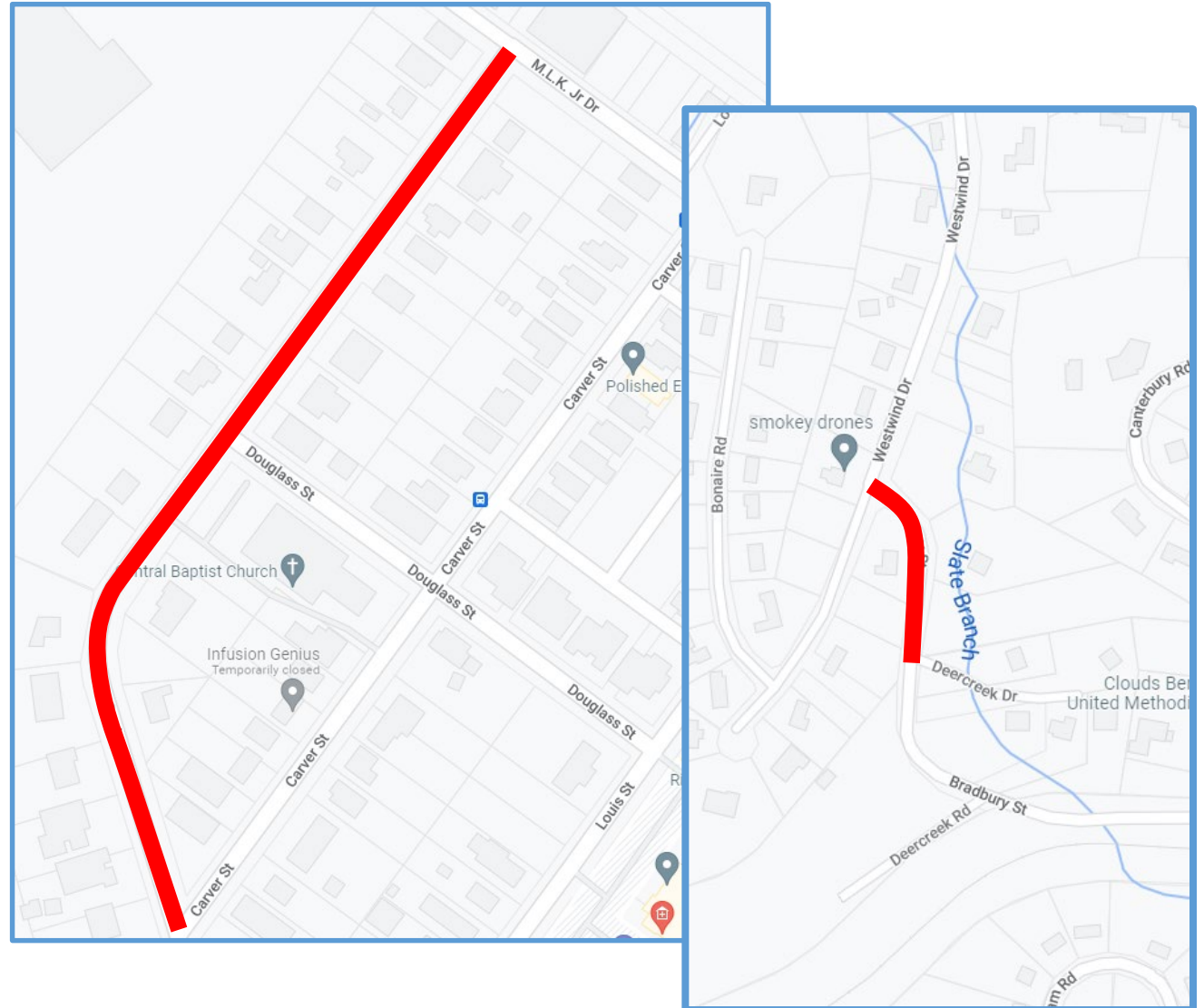
Pave Kingsport – Lowest PCI Segment Examples

Group #1 – Area 19

- Dunbar Street
 - Martin Luther King Jr. Drive Intersection
 - Carver Street Intersection

Group #1 - Area 04

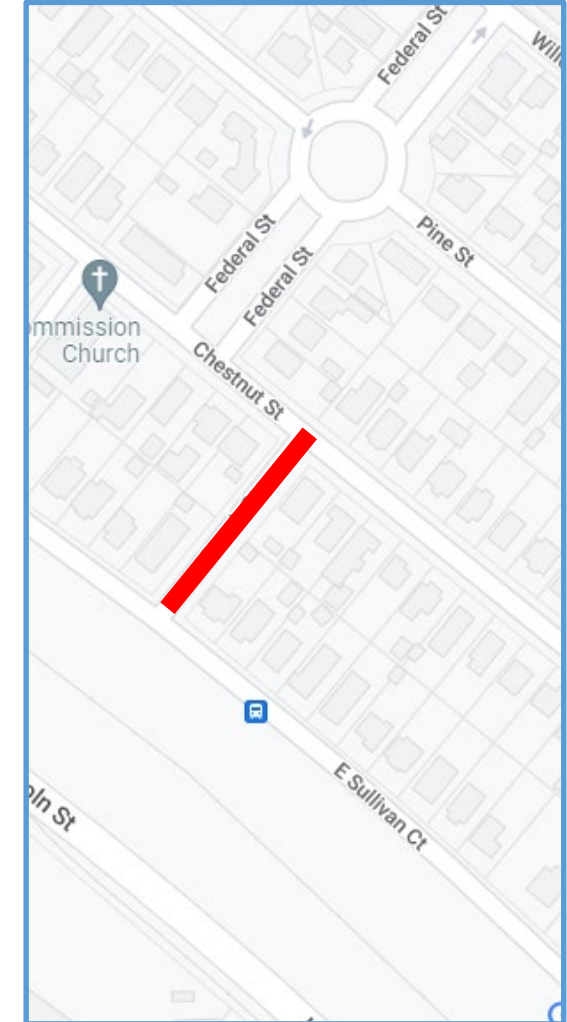
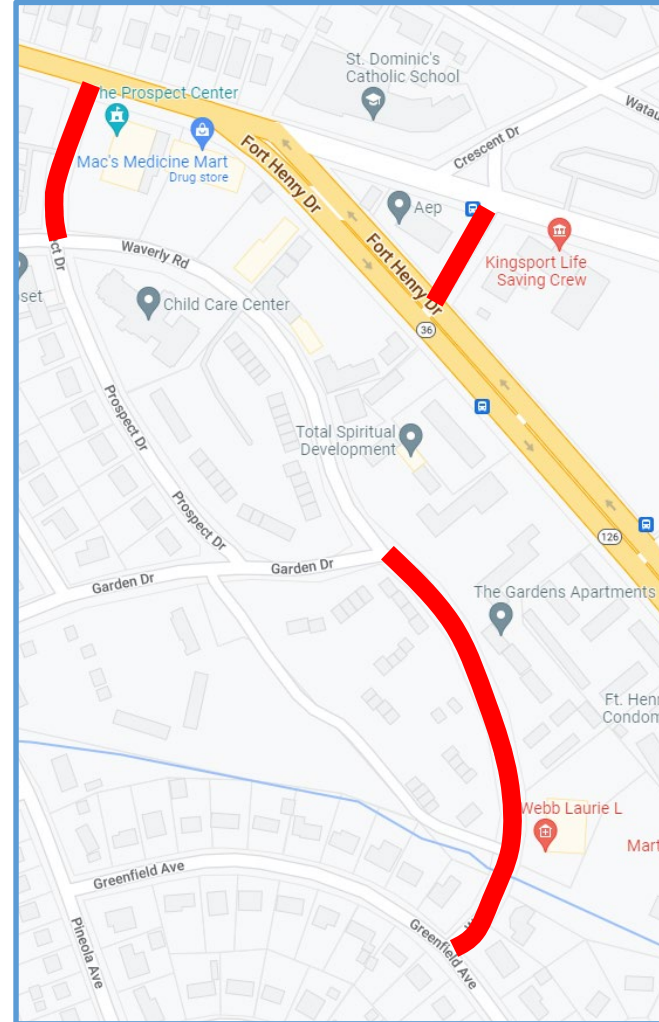
- Bradbury Street
 - Westwind Drive Intersection
 - Deercreek Drive Intersection



Pave Kingsport – Lowest PCI Segment Examples

Group #1 – Area 18

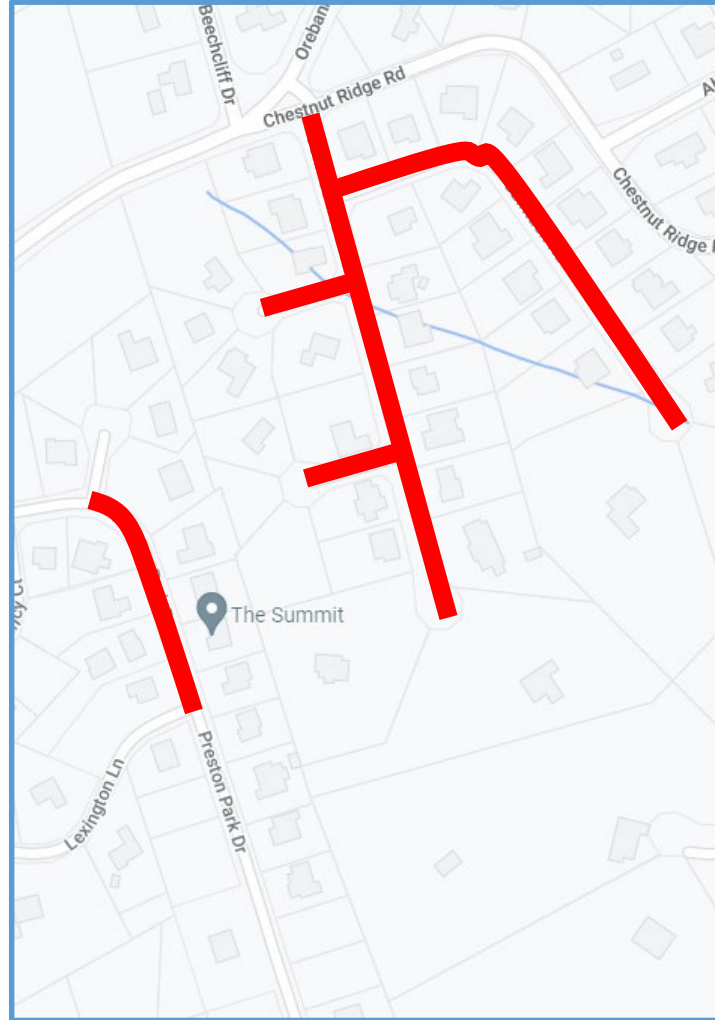
- Waverly Road
 - Garden Drive Intersection
 - Greenfield Ave Intersection
- Crescent Drive
 - Ft Henry Drive Intersection
 - Center Street Intersection
- Prospect Drive
 - Ft Henry Drive Intersection
 - Waverly Road Intersection
- Peach Street
 - East Sullivan Court Intersection
 - Chestnut Street Intersection



Pave Kingsport – Lowest PCI Segment Examples

Group #1 – Area 26

- Edens View Road
 - Stage Road
 - Edens View Road
- Caintuck Road
- Preston Park Drive
 - Yale Square
 - Lexington Lane
- Coventry Wynd Road
- John Gaines Blvd
- Exchange Court
- Susan Cook Place



Questions?