



Proposed Five Year Resurfacing Plan FY21 - FY25

Review and Approval Process

- Pavement Condition Evaluation
- Priority Consideration Given:
 - Council and Community Interests
 - Multi-Modal Streets and Collector Streets
 - Projects that Leverage Funds and Return
- Coordination with Internal Staff and Other Entities
- Bike-Pedestrian Champion Team Review and Recommendations
- Transportation and Connectivity Advisory Board
- Council Approval as Required

Pavement Condition Evaluation

- ~750 Town-Maintained Paved Streets
- ~165 Paved Centerline Miles

*Formal Pavement Condition Evaluation conducted by third party every two years.

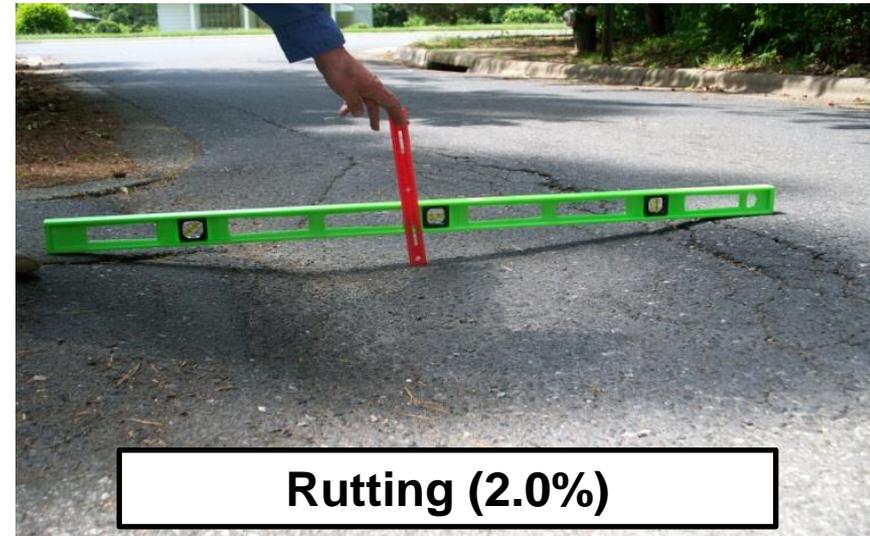
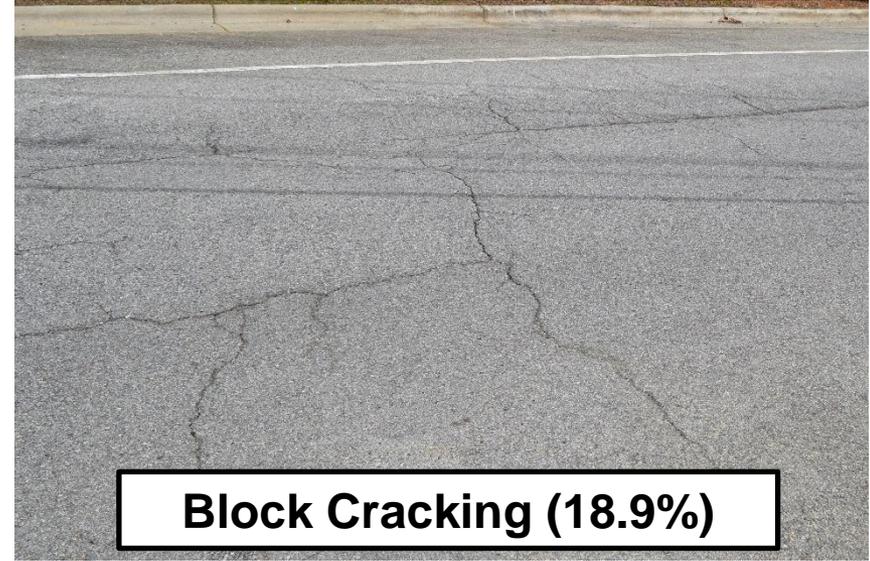
Table 6
PAVEMENT CONDITION SURVEY DISTRESS SUMMARY FOR RATED STREETS

| Distress Items | Miles Low Volume | Miles High Volume | Total Miles | % Miles |
|-------------------------------|---------------------|----------------------|---------------|---------------|
| 1. Alligator Cracking | | | | |
| None | 86.84 | 29.54 | 116.39 | 70.1 |
| Light | 19.66 | 6.42 | 26.09 | 15.7 |
| Moderate | 6.29 | 3.19 | 9.48 | 5.7 |
| Severe | 9.56 | 4.42 | 13.99 | 8.4 |
| 2. Block Cracking | | | | |
| None | 12.02 | 8.38 | 20.41 | 12.3 |
| Light | 87.64 | 26.54 | 114.18 | 68.8 |
| Moderate | 19.35 | 5.97 | 25.33 | 15.3 |
| Severe | 3.34 | 2.68 | 6.02 | 3.6 |
| 3. Reflective Cracking | | | | |
| None | 122.23 | 43.58 | 165.81 | 99.9 |
| Light | 0.12 | 0.00 | 0.12 | 0.1 |
| Moderate | 0.00 | 0.00 | 0.00 | 0.0 |
| Severe | 0.00 | 0.00 | 0.00 | 0.0 |
| 4. Rutting | | | | |
| None | 118.06 | 42.38 | 160.44 | 96.7 |
| Light | 4.30 | 1.20 | 5.50 | 3.3 |
| Moderate | 0.00 | 0.00 | 0.00 | 0.0 |
| Severe | 0.00 | 0.00 | 0.00 | 0.0 |
| 5. Raveling | | | | |
| None | 119.77 | 41.98 | 161.75 | 97.5 |
| Light | 2.59 | 1.60 | 4.18 | 2.5 |
| Moderate | 0.00 | 0.00 | 0.00 | 0.0 |
| Severe | 0.00 | 0.00 | 0.00 | 0.0 |
| 6. Bleeding | | | | |
| None | 122.36 | 43.58 | 165.93 | 100.0 |
| Light | 0.00 | 0.00 | 0.00 | 0.0 |
| Moderate | 0.00 | 0.00 | 0.00 | 0.0 |
| Severe | 0.00 | 0.00 | 0.00 | 0.0 |
| 7. Ride Quality | | | | |
| Average | 117.92 | 37.80 | 155.72 | 93.8 |
| Slightly Rough | 4.43 | 5.78 | 10.21 | 6.2 |
| Rough | 0.00 | 0.00 | 0.00 | 0.0 |
| 8. Patching | | | | |
| None | 95.38 | 26.81 | 122.19 | 73.6 |
| Light | 17.80 | 6.42 | 24.22 | 14.6 |
| Moderate | 6.04 | 5.93 | 11.98 | 7.2 |
| Severe | 3.13 | 4.42 | 7.55 | 4.6 |
| Total | 122.36 | 43.58 | 165.93 | 100.00 |

Note: Columns may not add up exactly due to rounding.

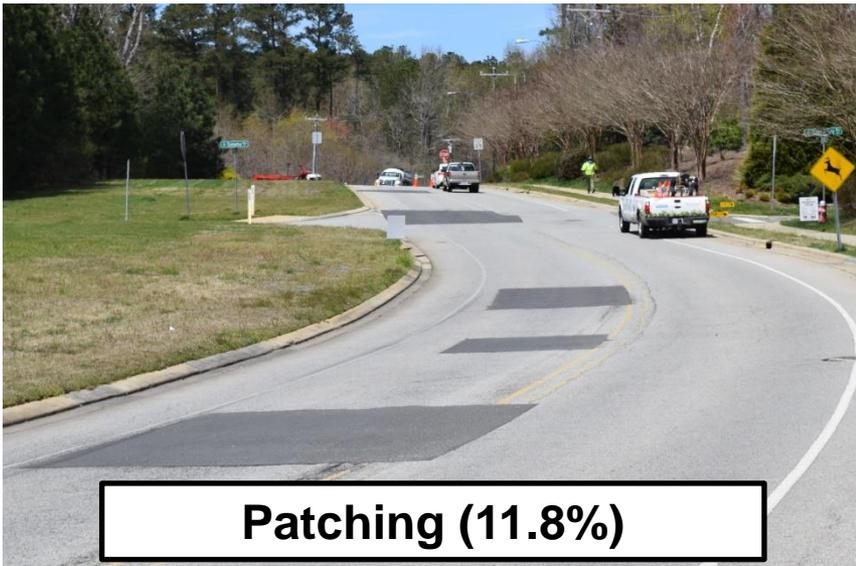
Pavement Distresses

(Percent of Town-Maintained Streets)



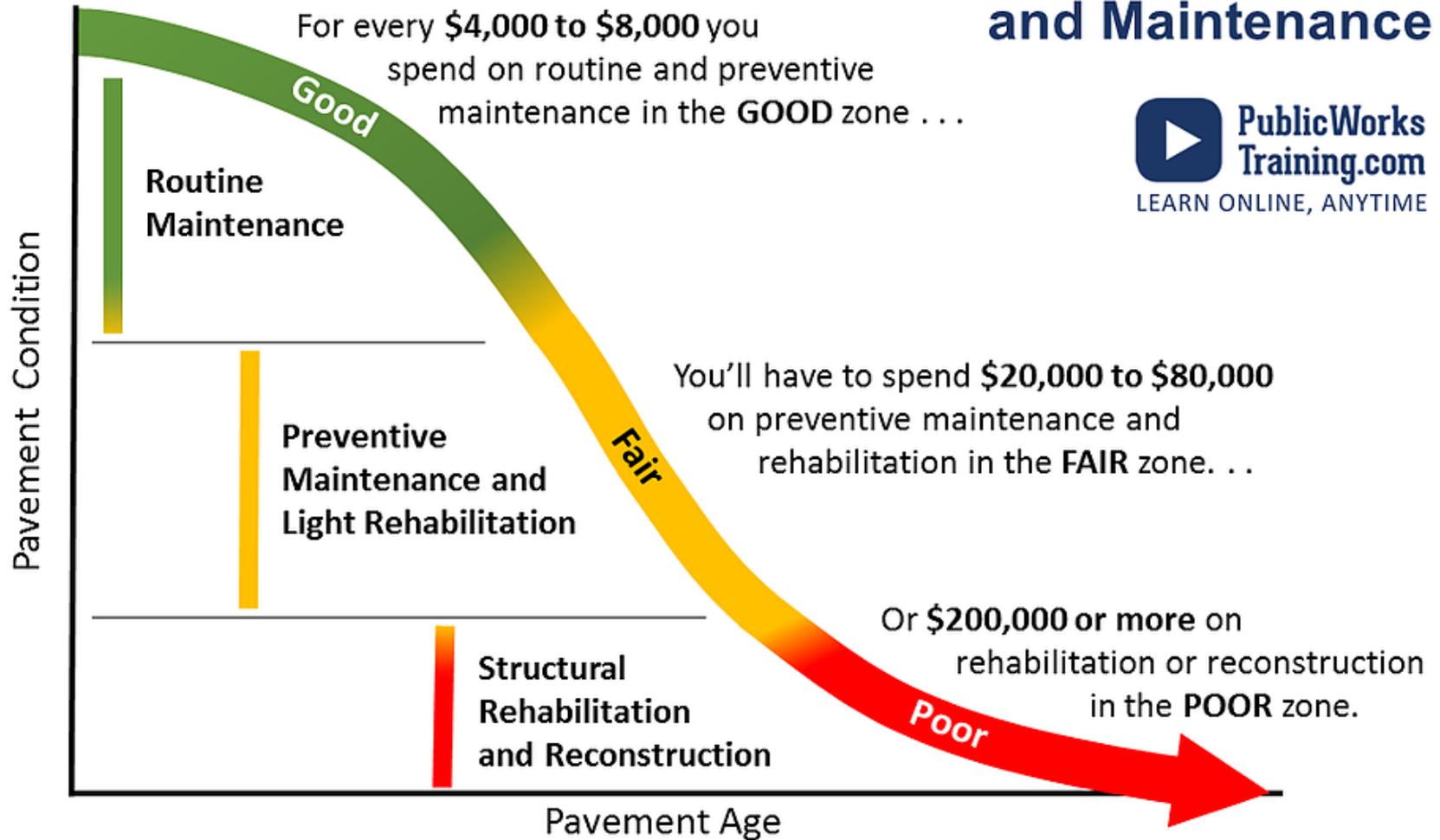
Pavement Distresses

(Percent of Town-Maintained Streets)



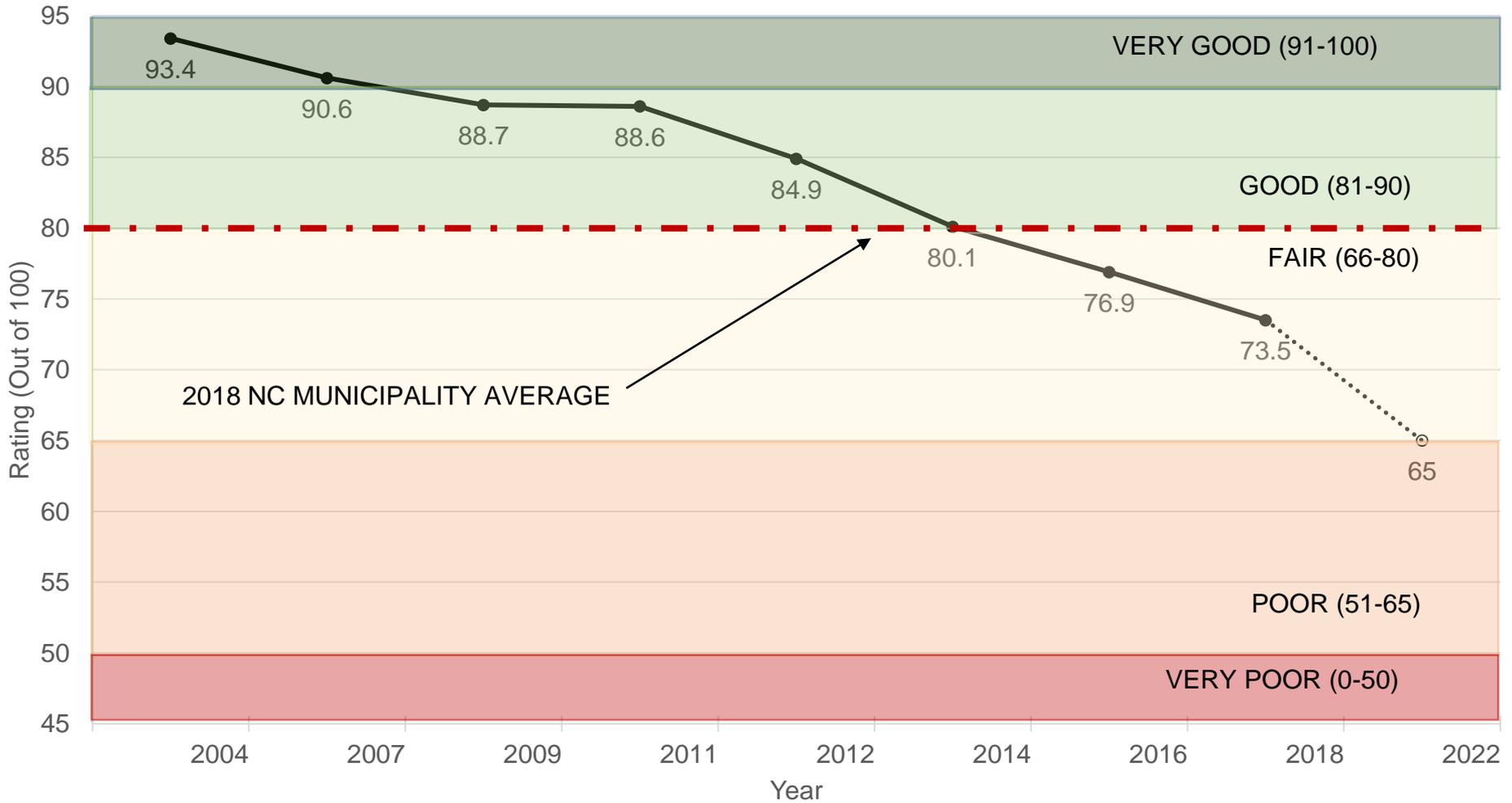
Pavement Deterioration Curve

Pavement Deterioration and Maintenance



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Pavement Condition Evaluation



Review and Approval Process

- Pavement Condition Evaluation
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**Examples: Rosemary Street, Ridge Road, & Friday Center Drive*

Council and Community Interests



Market Street

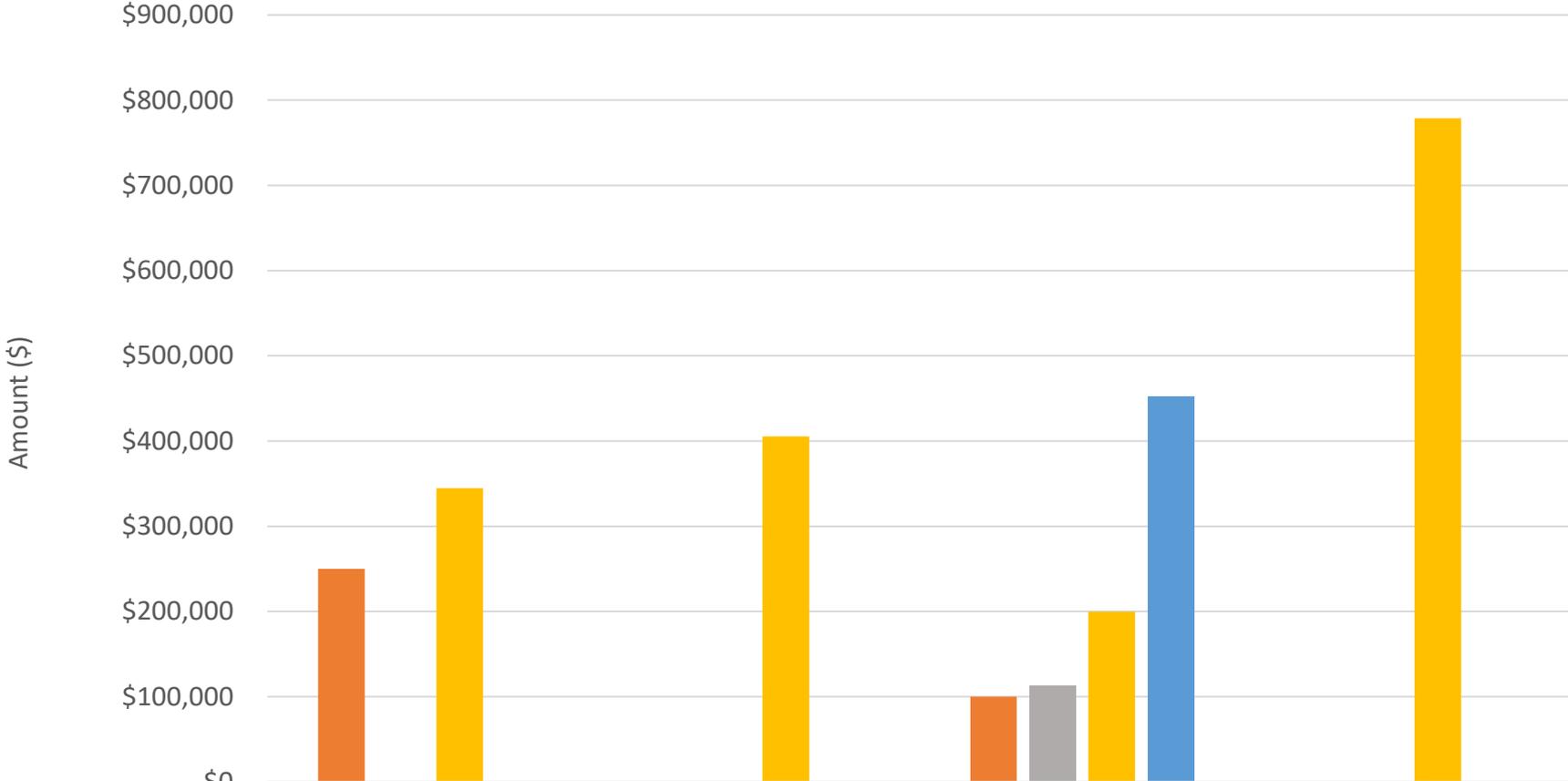


Rosemary Street



Sage Road

Town of Chapel Hill Street Reconstruction Funds



| | Ridge Road - FY 2017 | Rosemary Street - FY 2017 | Friday Center Drive - FY 2019 | Hillsborough Street - FY 2019 |
|--------------------------|----------------------|---------------------------|-------------------------------|-------------------------------|
| UNC Contribution | \$250,000 | 0 | \$100,000 | 0 |
| Other Town Capital Funds | | 0 | \$113,000 | 0 |
| Bond Funds | \$344,800 | \$405,400 | \$199,900 | \$778,700 |
| Federal (MPO) Funds | 0 | 0 | \$452,000 | 0 |

Projects that Leverage Funds

Friday Center Drive: Before

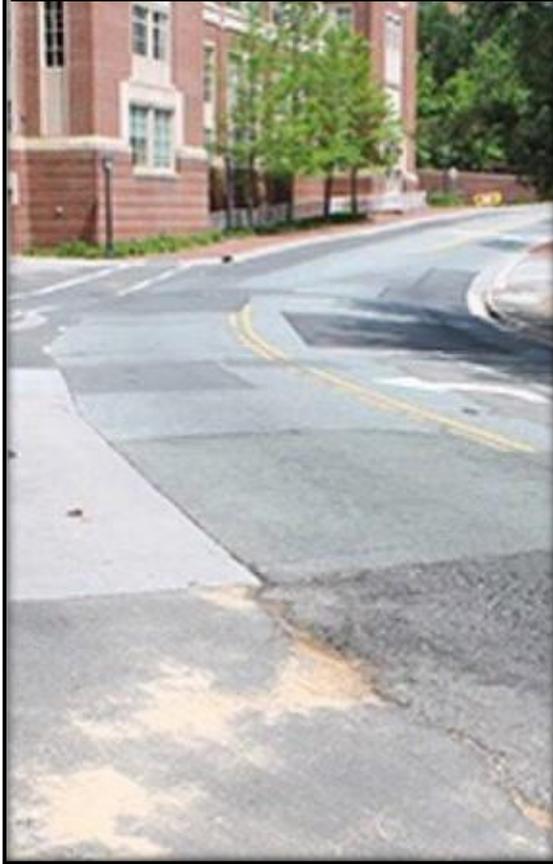


Friday Center Drive: After



Projects that Leverage Funds

Ridge Road – Before



Ridge Road – During



Ridge Road – After



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**Examples: UNC, NCDOT, OWASA, Duke Energy, etc.*

Coordination with Other Entities



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



Spectrum▶



at&t



**DUKE
ENERGY**®

FY20-21 Proposed Street Resurfacing List

| STREET (YEARS SINCE REPAVING) | FROM | TO | RATING | | EST. COST |
|---|------------------|-------------------|--------|-----------|-------------------|
| Barclay Rd. (19) | MLK Blvd. | End pavement | 57-63* | Poor | \$ 85,728 |
| Fountain Ridge Rd. (24) | Colony Woods Dr. | Pope Rd. | 0 | Very Poor | \$ 43,578 |
| Graham St. (N) (23) | Rosemary St. | Franklin St. | 59 | Poor | \$ 19,336 |
| Highgrove Dr. (20) | Cul-de-Sac | Parkview Crescent | 20 | Very Poor | \$ 75,940 |
| Roberson St. (N) (15) | Rosemary St. | Franklin St. | 80 | Fair | \$ 11,487 |
| Severin St. (25) | Bradley Rd. | Dead End | 0 | Very Poor | \$ 63,506 |
| Weiner St. (16) | Barclay Rd. | Severin St. | 47 | Very Poor | \$ 12,699 |
| *Maywood Way (15) | Old Larkspur Way | Dead End | 70 | Fair | \$ 78,199 |
| Contingency/Contract Patching (Locations TBD) and Pavement Markings | | | | | \$ 130,622 |
| TOTAL (FY 21-22) | | | | | \$ 521,015 |

Multi-Modal

Collector

Coordination with OWASA

*Contingent on available funds

FY21-22 Proposed Street Resurfacing List

| STREET (YEARS SINCE REPAVING) | FROM | TO | RATING | | EST. COST |
|---|--------------|--------------|--------|-----------|-------------------|
| Country Club Rd. (13) | Raleigh St. | Gimghoul Rd. | 32 | Very Poor | \$ 443,100 |
| Country Club Rd. (14) | Gimghoul Rd. | Raleigh Rd. | 58 | Poor | \$ 131,900 |
| Hooper Ln. (23) | Battle Ln. | Boundary St. | 64 | Poor | \$ 14,984 |
| Senlac Rd. (24) | Battle Ln. | Boundary St. | 21 | Very Poor | \$ 16,920 |
| Contingency/Contract Patching (Locations TBD) and Pavement Markings | | | | | \$ 61,611 |
| TOTAL (FY 21-22) | | | | | \$ 668,515 |

Multi-Modal

Collector

Coordination with OWASA

FY 22-23 Proposed Street Resurfacing List

| STREET (YEARS SINCE REPAVING) | FROM | TO | RATING | | EST. COST |
|---|--------------------|--------------------|--------|-----------|-------------------|
| | | | | | |
| Bolinwood Dr. (23) | MLK Blvd. | Whistling Tree Ct. | 54 | Poor | \$ 38,484 |
| Bolinwood Dr. (28) | Whistling Tree Ct. | Hillsborough St. | 0 | Very Poor | \$ 55,498 |
| Burning Tree Dr. (23) | NC 54 | Pinehurst Dr. | 46 | Very Poor | \$ 190,031 |
| Cameron Ave. (20) | Merritt Mill Rd. | Pittsboro St. | 27 | Very Poor | \$ 207,733 |
| Francis St. (29) | Ephesus Church Rd. | Cul-de-Sac | 8 | Very Poor | \$ 31,537 |
| Cooper St. (15) | Garden St. | Old Durham Rd. | 42 | Very Poor | \$ 22,974 |
| Legion Rd. Ext. (16) | Scarlett Dr. | Cooper St. | 39 | Very Poor | \$ 21,188 |
| New Castle Dr. (27) | Lancaster Dr. | Galway Dr. | 23 | Very Poor | \$ 61,655 |
| Contingency/Contract Patching (Locations TBD) and Pavement Markings | | | | | \$ 39,418 |
| TOTAL (FY 22-23) | | | | | \$ 668,515 |

Multi-Modal

Collector

Coordination with OWASA

FY23-24 Proposed Street Resurfacing List

| STREET (YEARS SINCE REPAVING) | FROM | TO | RATING | | EST. COST |
|---|--------------------|-----------------|--------|-----------|-------------------|
| Caswell Rd. (32) | Cumberland Rd. | Estes Dr. | 47 | Very Poor | \$ 55,187 |
| Caswell Rd. (24) | Estes Dr. | Cumberland Rd. | 64 | Poor | \$ 43,691 |
| Europa Dr. (29) | Legion Rd. | End Maintenance | 22 | Very Poor | \$ 47,419 |
| Heather Ct. (30) | Clover Dr. | Circle | 19 | Very Poor | \$ 11,844 |
| Legion Rd. (16) | Ephesus Church Rd. | Scarlett Dr. | 16 | Very Poor | \$ 222,710 |
| Oakwood Dr. (25) | Raleigh Rd. | Cleland Rd. | 31 | Very Poor | \$ 201,392 |
| Contingency/Contract Patching (Locations TBD) and Pavement Markings | | | | | \$ 86,270 |
| TOTAL (FY 23-24) | | | | | \$ 668,515 |

Multi-Modal

Collector

Coordination with OWASA

FY24-25 Proposed Street Resurfacing List

| STREET (YEARS SINCE REPAVING) | FROM | TO | RATING | | EST. COST |
|-------------------------------|--------------------|--------------------|--------|-----------|------------|
| Brookside Dr. (29) | Hilltop St. | McCauley St. | 46 | Very Poor | \$ 36,773 |
| Catesby Ln. (28) | Collinson Dr. | Cul-de-Sac | 80 | Fair | \$ 11,177 |
| Colburn Pt. (27) | Marin Dr. | Cul-de-Sac | 44 | Very Poor | \$ 13,339 |
| Collinson Dr. (27) | Piney Mountain Rd. | Cul-de-Sac | 28 | Very Poor | \$ 42,704 |
| Crest Dr. (19) | Merritt Mill Rd. | Johnson St. | 19 | Very Poor | \$ 33,417 |
| Nuttal Pl. (28) | Collinson Dr. | Cul-de-Sac | 48 | Very Poor | \$ 10,049 |
| Pinehurst Dr. (20) | Burning Tree Dr. | Ephesus Church Rd. | 41 | Very Poor | \$ 326,506 |
| Ridgecrest Dr. (19) | Lake Shore Dr. (S) | Old Oxford Rd. | 46 | Very Poor | \$ 50,882 |

Multi-Modal

Collector

Coordination with OWASA

FY24-25 Proposed Street Resurfacing List (Cont.)

| STREET (YEARS SINCE REPAVING) | FROM | TO | RATING | | EST. COST |
|---|--------------------|--------------------|--------|-----------|-------------------|
| Riggsbee Rd. (29) | Brookview Dr. | Piney Mountain Rd. | 36 | Very Poor | \$ 19,890 |
| Tenney Cir. (23) | Glenburnie St. | Tenney Cir. | 18 | Very Poor | \$ 24,613 |
| Woodleaf Dr. (25) | Seawell School Rd. | Cul-de-Sac | 28 | Very Poor | \$ 37,412 |
| Contingency/Contract Patching (Locations TBD) and Pavement Markings | | | | | \$ 61,753 |
| TOTAL (FY 24-25) | | | | | \$ 668,515 |

Multi-Modal

Collector

Coordination with OWASA

Alternate Street Resurfacing List

| STREET (YEARS SINCE REPAVING) | FROM | TO | RATING | | EST. COST |
|-------------------------------|-------------|---------------|--------|-----------|-----------|
| Bradley Rd. (26) | Umstead Dr. | Williams Cir. | 27 | Very Poor | \$ 74,149 |

- The five-year plan assumes the baseline operating budget of \$668,515. Additional bond funds may be available upon the next issuance (date currently unknown).*

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Connections to Mobility Plan

- Each year, Bike-Pedestrian Team and Streets staff identify and discuss connections between resurfacing plan and mobility plan
- Mobility Plan items are coordinated with resurfacing when:
 - Feasible to complete within budget (typically smaller projects or other funding sources can be leveraged)
 - Mobility project pre-requisites are complete (i.e., traffic studies, road diet studies, etc.)

Questions?



Images of Chapel Hill's Franklin Street - From 1892 to the present.
Courtesy North Carolina Collection and Chris Conway.