Rolesville

Genuine Community • Capital Connection

Est. 1837

Board of Commissioners

Work Session

February 18, 2020

7:00 PM

AGENDA

This meeting is designed as a work session for board members to receive, review and discuss information prepared by staff. Only staff and board members are allowed to speak during this meeting, without express special permission. Citizens are reminded that there is an opportunity during the public comment period of regular board meetings occurring during the first Tuesday of each month for questions and concerns and citizens are welcome to contact the Mayor or board at other times by phone or email.

Item	Presenter
1. Proclamation: Appreciation to Wake Electric	Mayor Ronnie I. Currin
2. Pavement Condition Index Report	J. G. Ferguson/ Withers-Ravenel
3. Review of Resurfacing Bids	K. Arnold/J. G. Ferguson
4. Update on Town Hall Remodel	J. G. Ferguson
5. Utility Customer Assistance Program Interlocal Agreement	A. Stevens
6. Review of Amended Hours/Days of Construction Noise Ordinance	K. Arnold
7. Adjourn	

Proclamation of the Town of Rolesville

Recognizing Wake Electric

WHEREAS, is a not-for-profit electric utility company headquartered in Wake Forest, North Carolina; and

WHEREAS, Wake Electric Membership Corporation is one of Rolesville's energy providers and a partner with the Town of Rolesville; and

WHEREAS, Rolesville was one of the last remaining municipalities in Wake County without an Electric Vehicle Charging Station; and

WHEREAS, More and more citizens are driving electric and hybrid vehicles, and an increasing number of electric and hybrid vehicle options are being made available by car manufacturers;

WHEREAS, Wake Electric Membership Corporation provides free electric vehicle charging stations to the public.

NOW THEREFORE, the Town of Rolesville would like to recognize and express it's gratitude to Wake Electric for installing a new Electric Vehicle Charging Station at the corner of Main Street and Southtown Circle in the parking lot at Town Hall thereby allowing Rolesville to join its neighboring municipalities by having a publicly available charging station to serve town residents and visitors alike.

IN WITNESS WHEREOF, I do hereby set my hand and cause the seal of Rolesville to be affixed this 8th Day of February, 2020.

_____
Ronnie I. Currin, Mayor

ATTEST:

_____
Robin E. Peyton, Town Clerk

Memorandum

To: Mayor & Town Board
From: JG Ferguson, Parks & Recreation Director
Date: 2/12/2020
Re: Pavement Condition Index Report Agenda Item #2

Background

WithersRavenel recently completed the Pavement Condition Index (PCI) for Town maintained streets (approximately 32 miles). The overall rating of Town maintained streets is 89.78, categorized as “Good”.

Board Options

The Level of Service (LOS) the Town Board wishes to maintain will affect the amount budgeted yearly over a 20 year period.

Maintained at 60 PCI (Fair 56-70) - $150,000 yearly
Maintained at 70 PCI (Satisfactory 71-85) - $380,000 yearly
Maintained at 80 PCI (Satisfactory 71-85) - $760,000 yearly

Relationship to Current Budget/Goals

Currently the Town receives $175,000/year from Powell Bill.

Recommended Action

None.

Attachments: PCI Report, Presentation

2019
PAVEMENT CONDITION ASSESSMENT

Town of Rolesville, NC

Prepared For:
JG Ferguson
Town of Rolesville
502 Southtown Circle
PO Box 250
Rolesville, NC 27571
(919) 556-3506

Prepared By:
WithersRavenel
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Cary, NC 27511
919.469.3340
License No. C-0832

December 2020
WR No. 02190510.02

Report by: Joseph Turner, PE and Jacob Smith

WithersRavenel
Our People. Your Success.

Executive Summary

Enclosed, please find the results of the Town of Rolesville 2019 Pavement Condition Survey. This report provides an objective evaluation of public streets maintained by the Town. WR staff completed the survey using visual observation methods to determine distress types and severities and approximate distress amounts. The streets were surveyed during the months of October and November 2019.

The goals of the pavement condition survey are to assist in establishing a uniform level-of-service for maintenance across the Town of Rolesville and to help maximize the benefit of dollars spent on Town street repair and maintenances. The following are provided in this report:

1. Maintenance and repair plan scenarios with example budgets.
2. An alphabetical and numerical ranking system to prioritize maintenance needs.
3. Prescribed activity by budget for a 5-year term.
4. Prescribed budget by desired PCI for 20-year term.
5. Maps indicating road segment PCI and distresses.

Street Network

Approximately 32 miles of roadway were visually assessed by block / segments as shown on the Town Powell Bill map. Our condition assessment included collecting street properties i.e. pavement type, curb and gutter type and street width, asphalt pavement distresses identified including amount and severity of cracking, rutting, weathering, patching, etc. Alligator cracking and utility cuts are typically the main source of ride quality and main evidence of pavement failure. These areas were quantified and located and are shown on maps included in this report. This will enable the Town to readily identify problem areas and make point repairs to increase the life of a street.

Pavement Condition

The data from the observations on the rated streets was entered into an automated pavement management software program PAVER™, which generated a Pavement Condition Index (PCI) for each street segment. Streets are listed based on Pavement Condition Index (PCI) assigned as the "Rating" attribute within the database. Table 1 represents the PAVER™ numerical ranges and categories for street segments.

Table 1 - PCI Categories

Failed	0-10
Serious	11-25
Very Poor	26-40
Poor	41-55
Fair	56-70
Satisfactory	71-85
Good	86-100

Each street segment began with a rating of 100 and points were deducted from this rating based on the type and severity of distress. The Town of Rolesville's average PCI Rating was calculated to be 89.78, categorized as "Good".

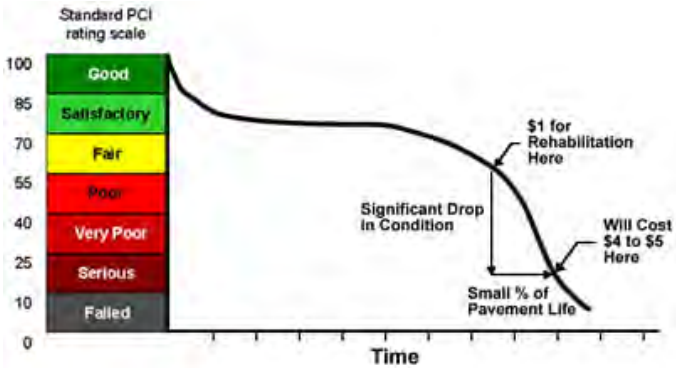
Introduction and Methodology

Pavement condition surveying was conducted using survey methods developed by the Institute of Transportation Research and Education (ITRE) as well as survey methods developed by WithersRavenel in order to detail individual distresses. The methodology includes inspection of nine types of pavement distresses rated by severity from low to high. The pavement distresses are Alligator Cracking, Bleeding, Bumps/Sags, Ride Quality, Transverse/Block Cracking, Patching/Utility Cuts, Raveling, Rutting, and Weathering. Distress severity is also recorded as either Light, Moderate, or Severe. Utilization of this comprehensive survey strategy is advantageous because it allows for a uniform rating system of each street section. Definitions and severity examples pulled from PAVER™ Software and the NCDOT Pavement Condition Survey Manual can be found in Appendix A.

WithersRavenel field crews conducted this survey during the months of October and November 2019. Field crews generally consisted of two members; a driver who called out distresses and a passenger who logged the distresses at their location on a GPS device. Additional data collection included street classification, street width, curb and gutter type, and pavement material. Data from the GPS device was then transferred into GIS software so that the physical location of the distresses could be paired with the road segment that they were associated with.

This data was then exported into PAVER™, a pavement management software developed by the US Army Corps of Engineers. The software imports the road segment information, as well as all distresses associated with that road segment, and calculates the roads health via the Pavement Condition Index (PCI). This is done by assessing the quantity and severity of a distress against deduct value curves for each distress/severity within the PAVER™ Software. Examples of deduct value curves provided in article ASTM D6433-07 can be found in Appendix B. The result is a deduction in PCI value for each distress and an overall PCI value for each road segment. Table 1 above shows the numerical and classification of PCI ranges utilized by PAVER™.

It is important to note here that road segments that fall below the "Critical PCI" score are assumed to require considerable repair. At this point in the road segment's life, the surface and subsurface health of the road begins to decline rapidly and the cost of repeated localized maintenance on this becomes larger than the cost of replacement in the long run of the segment's life. This is illustrated with the accompanying image found to the left of this text. The PAVER™ Software considers localized work to segments below the critical PCI to not improve the roadway health, with only resurfacing contributing to road improvement.



The pavement management program also determines how the streets rating index would be affected based on fixed budgets applied over a certain period. PAVER can generate scenarios that model the Town's

pavement condition year after year along with recommending maintenance activities to address the condition on each street segment.

Maintenance and Repair (M&R) Plan Scenarios

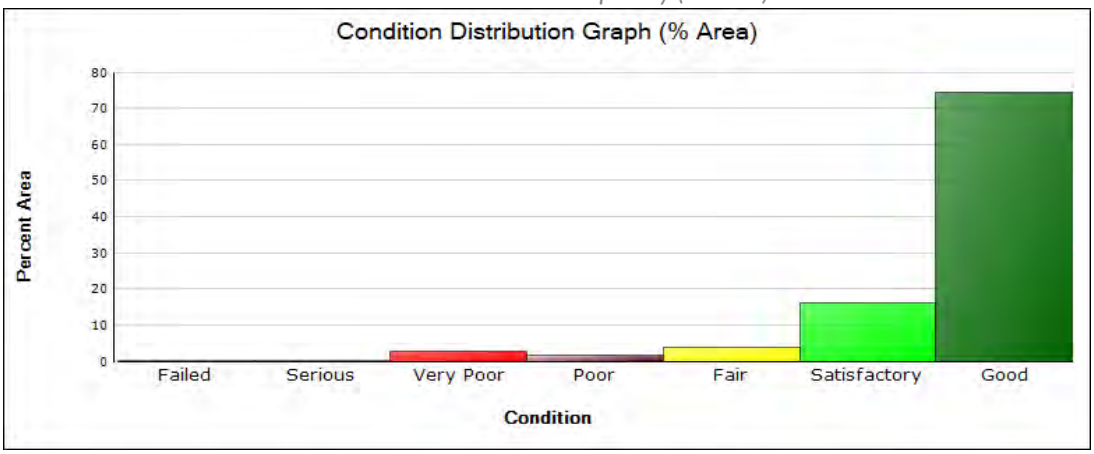
Three M&R scenarios have been prepared. The first two budget scenarios included an annual 3% inflation rate and were calculated using a 5-year term with a common goal of maintaining all street segments above the Critical Pavement Condition Index (PCI). The Critical PCI is a pre-determined PCI value at which the rate of PCI loss increases with time, or the cost of applying localized preventative maintenance increases significantly. For this report we used a Critical PCI of 55. The final budget scenario sets the level of funding each year over a period of twenty years for a certain PCI value the Town could choose to maintain. Maintenance and repair costs for the pavement distresses are all based on standard unit pricing built into the PAVER software and are updated on a regular basis. These costs are in line with national averages.

For all scenarios shown, the maintenance and repair parameters remained the same; only the annual budget amounts were changed. The following scenarios were prepared for the Town of Rolesville: Scenario 1 – Apply a $175,000/year budget for five years; Scenario 2 – Apply a $350,000/year budget for five years; and Scenario 3 – This scenario allows the Town to choose a target PCI. In order to maintain that target PCI, a suggested yearly budget is provided over a 20-year period. All standard types of maintenance and repair work that are included in this PAVER program were applied to all Town maintained street segments as taken from the Powell Bill maps provided by the Town.

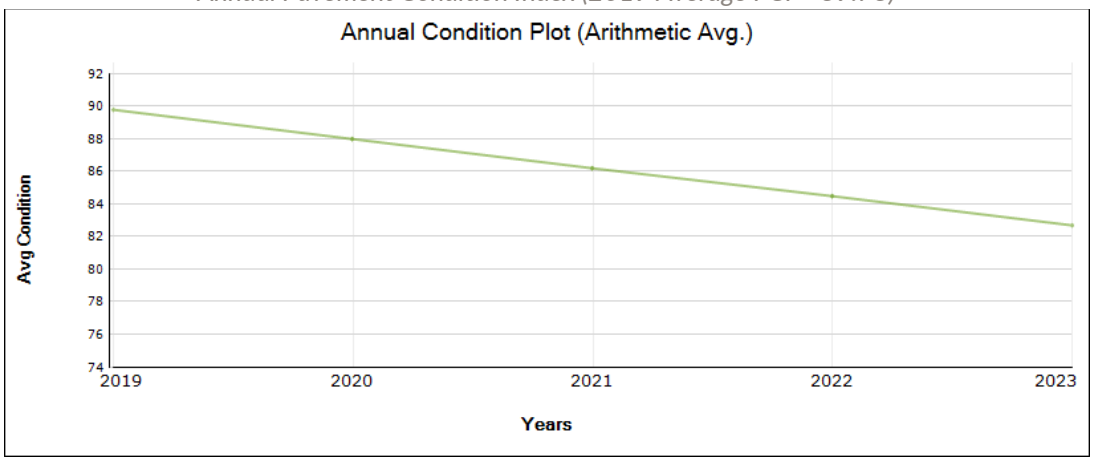
The two charts below summarize the current condition of the streets in the Town of Rolesville (top), and the forecasted average PCI over a five-year period if no maintenance or rehabilitation were to occur in that time frame. Over 80% of the streets achieved a rating of fair or better and by 2023, if no work were to be done on the roads, the average PCI rating for the Town of Rolesville would be just over 82, which is considered a satisfactory rating.

Current Condition Summaries – October 2019

Pavement Condition Frequency (% Area)



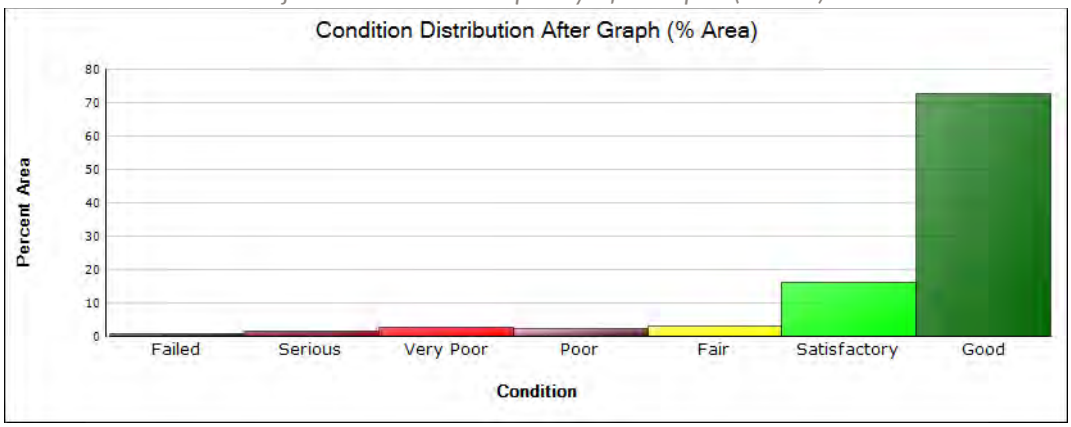
Annual Pavement Condition Index (2019 Average PCI = 89.78)



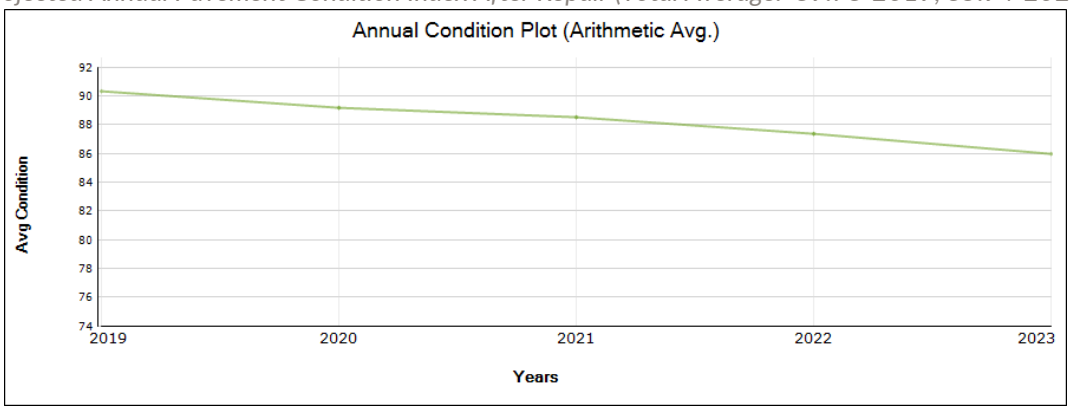
M&R Plan - $175K Annual Budget

The following graphs and tables show that with an annual budget of $175,000, about 87% of funding in the first year was allocated towards global and localized preventative funding with the rest being allocated for stop-gap activities. This is reflected in the small PCI increase of 0.55 in year one compared to existing conditions. However, the percentage of global preventative funding falls each year with more and more money allocated towards stop-gap maintenance in order to prevent a sharp decrease in PCI through the 5-year plan. Streets with needed major repairs will only worsen. This scenario also indicates that the $175,000 annual budget is not enough to maintain the current PCI average (89.78) over the long term and the average PCI would continue to fall (to approximately 85.94) in five years.

Projected Condition Frequency After Repair (% Area)



Projected Annual Pavement Condition Index After Repair (Total Average: 89.78-2019, 85.94-2023)



Total Funded Maintenance and Repairs ($175K budget)

Date	Stop-Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$21,929.44	$58,217.46	$94,836.22	$0.00	$0.00	$174,983.12
2020	$28,407.21	$34,952.27	$111,463.15	$0.00	$0.00	$174,822.63
2021	$34,997.24	$47,486.74	$92,452.94	$0.00	$0.00	$174,936.91
2022	$42,560.67	$67,821.55	$64,521.09	$0.00	$0.00	$174,903.31
2023	$52,196.59	$103,118.30	$19,479.42	$0.00	$0.00	$174,794.31

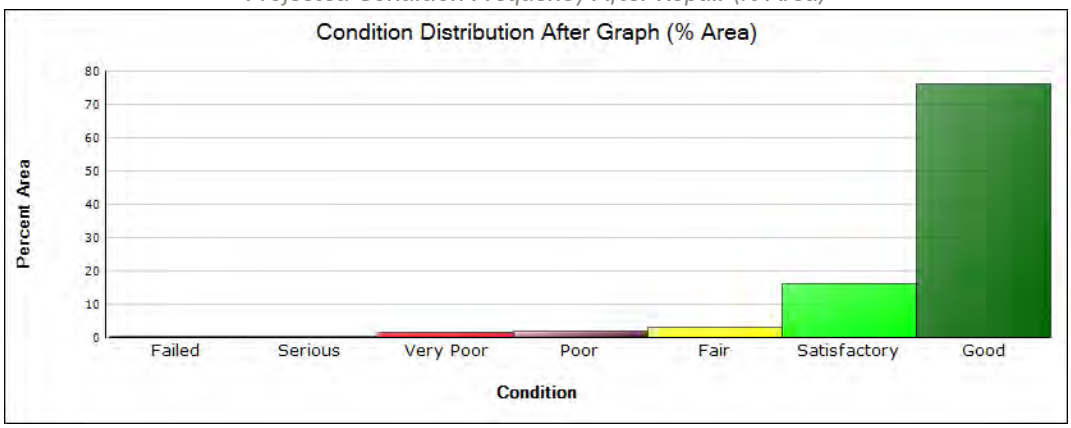
M&R Plan - $350K Annual Budget

The following graphs and tables show a pavement management plan with a budget of $350,000. With a larger budget available for each of the five years, in the first year, increased global preventative work is applied to portions of the network, helping add years of life to those segments. This is reflected in the larger PCI increase of 0.97 in year one compared to existing conditions. With the additional funding in years 2-5, major work can be completed on the worst conditioned roads bringing their scores back up to a PCI of 100. Although an increased amount of spending was able to be directed towards preventative maintenance and major rehabilitation, not all of the roads are able to be rehabilitated when it is warranted. This scenario also indicates that the $350K year budget is not quite enough to maintain the current PCI average (89.78) over the long term and the average PCI would continue to fall slowly (to approx. 88.48) over five years.

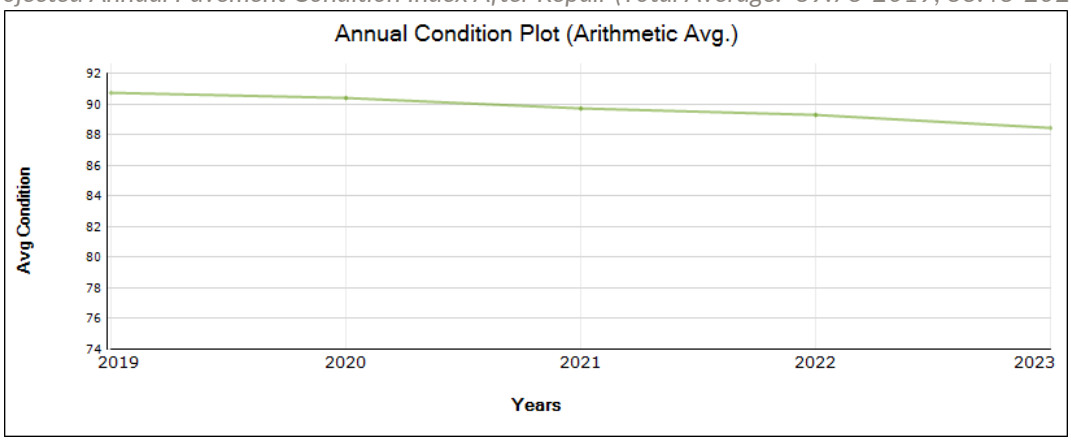
Total Funded Maintenance and Repairs ($350K budget)

Date	Stop-Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$21,929.44	$58,217.46	$269,822.98	$0.00	$0.00	$349,969.88
2020	$27,533.63	$32,064.42	$60,600.82	$228,268.03	$0.00	$348,466.90
2021	$24,682.87	$47,503.87	$13,060.11	$262,917.77	$0.00	$348,164.63
2022	$17,052.59	$67,855.01	$32,703.33	$213,608.34	$0.00	$331,219.28
2023	$18,989.02	$104,924.22	$22,065.68	$202,375.59	$0.00	$348,354.50

Projected Condition Frequency After Repair (% Area)



Projected Annual Pavement Condition Index After Repair (Total Average: 89.78-2019, 88.48-2023)



M&R Plan – 20 Year Cycle Analysis

This section of the report outlines how much money would have to be allocated to ensure a specified PCI rating be kept over a 20-year period.

Maintained 80 PCI:

In order for the Town's streets to remain at a Pavement Condition Index of 80, a total of roughly $15.17 million dollars over the 20-year period or approx. $760,000 per year for 20 years would be needed. The chart below summarizes the type of work and its suggested funding over the 20 years. In year one (2019) a majority of the funding would be reserved for major maintenance and rehabilitation work, bringing all the roads up above the critical PCI (55) for the next five years. As the program aged, a majority of the streets would receive increased global and local preventative maintenance, the few roads dropping below the critical PCI (55) would be funded for major repairs. Notice that not until year 20 is any stop gap work being done. Stop gap work does not improve a streets PCI score and is considered only to address high-severity distresses that pose a safety concern.

20-year funding plan to maintain a PCI of 80 on all streets

Date	Stop Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$0.00	$58,217.46	$283,536.74	$1,542,604.39	$0.00	$1,884,358.59
2020	$0.00	$32,064.42	$46,475.65	$0.00	$0.00	$78,540.07
2021	$0.00	$47,503.87	$13,060.11	$0.00	$0.00	$60,563.99
2022	$0.00	$67,855.01	$32,703.33	$0.00	$0.00	$100,558.34
2023	$0.00	$108,064.12	$22,065.68	$0.00	$0.00	$130,129.80
2024	$0.00	$157,087.15	$328,300.29	$11,764.22	$0.00	$497,151.66
2025	$0.00	$118,821.92	$53,878.01	$0.00	$0.00	$172,699.93
2026	$0.00	$149,133.58	$15,140.25	$44,814.95	$0.00	$209,088.78
2027	$0.00	$189,147.19	$37,912.13	$45,329.37	$0.00	$272,388.68
2028	$0.00	$231,575.06	$25,580.17	$36,463.82	$0.00	$293,619.05
2029	$0.00	$285,339.29	$377,886.75	$40,429.89	$0.00	$703,655.93
2030	$0.00	$226,029.05	$62,459.38	$19,666.54	$0.00	$308,154.98
2031	$0.00	$286,692.25	$17,551.70	$0.00	$0.00	$304,243.95
2032	$0.00	$347,217.64	$43,950.54	$61,918.24	$0.00	$453,086.42
2033	$0.00	$454,847.18	$29,654.43	$77,410.68	$0.00	$561,912.29
2034	$0.00	$952,149.75	$432,246.22	$57,539.89	$0.00	$1,441,935.87
2035	$0.00	$860,048.49	$72,407.54	$19,345.81	$0.00	$951,801.85
2036	$0.00	$1,281,981.29	$20,347.23	$0.00	$0.00	$1,302,328.52
2037	$0.00	$1,995,765.21	$50,950.73	$79,128.20	$0.00	$2,125,844.13
2038	$1,926.65	$2,203,015.01	$34,377.61	$1,078,859.96	$0.00	$3,318,179.23

Maintained 70 PCI:

In order for the Town's streets to remain at a Pavement Condition Index of 70, a total of roughly $7.16 million dollars over the 20-year period or approx. $380,000 per year for 20 years would be needed. In this scenario, major maintenance and rehabilitation projects take place over a 10-year period with local and global preventative work receiving a majority of the funding up until year 12 and 13. At this point, the funding shifts away from the preventative maintenance and focuses on the safety issues on the streets with the stop gap work.

20-year funding plan to maintain a PCI of 70 on all streets

Date	Stop Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$21,783.95	$58,217.46	$283,536.74	$54,417.59	$0.00	$417,955.74
2020	$26,168.76	$32,064.42	$46,475.65	$311,878.48	$0.00	$416,587.31
2021	$12,465.27	$47,503.87	$13,060.11	$338,409.96	$0.00	$411,439.22
2022	$10,355.60	$67,855.01	$32,703.33	$288,356.33	$0.00	$399,270.27
2023	$4,590.47	$105,948.04	$22,065.68	$85,416.95	$0.00	$218,021.14
2024	$7,188.41	$153,246.67	$263,050.25	$0.00	$0.00	$423,485.34
2025	$10,837.38	$113,512.00	$121,085.55	$13,236.15	$0.00	$258,671.08
2026	$16,408.03	$142,552.29	$15,140.25	$44,814.95	$0.00	$218,915.52
2027	$26,886.40	$181,292.77	$37,912.13	$45,329.37	$0.00	$291,420.66
2028	$38,335.50	$221,754.46	$25,580.17	$36,463.82	$0.00	$322,133.95
2029	$57,816.93	$273,395.42	$92,287.41	$0.00	$0.00	$423,499.76
2030	$80,420.84	$250,141.61	$92,180.83	$0.00	$0.00	$422,743.28
2031	$101,629.56	$253,346.25	$68,553.48	$0.00	$0.00	$423,529.29
2032	$115,988.29	$307,542.37	$0.00	$0.00	$0.00	$423,530.65
2033	$128,501.98	$295,025.34	$0.00	$0.00	$0.00	$423,527.32
2034	$136,421.13	$287,104.13	$0.00	$0.00	$0.00	$423,525.25
2035	$144,020.74	$279,509.87	$0.00	$0.00	$0.00	$423,530.61
2036	$151,215.86	$272,307.08	$0.00	$0.00	$0.00	$423,522.94
2037	$162,864.59	$260,529.23	$0.00	$0.00	$0.00	$423,393.82
2038	$180,938.69	$242,591.79	$0.00	$0.00	$0.00	$423,530.48

Maintained 60 PCI:

In order for the Town's streets to remain at a Pavement Condition Index of 60, a total of roughly $3.0 million dollars over the 20-year period or approx. $150,000 per year for 20 years would be needed. In our final scenario no funding is allotted for the roads that are failing (Major Under Critical Funded). For the first ten years some preventative maintenance is completed on the qualifying roads. But eventually, all the funding goes to stop gap measures with no other work taking place.

20-year funding plan to maintain a PCI of 60 on all streets

Date	Stop Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$21,929.44	$58,217.46	$68,795.67	$0.00	$0.00	$148,942.57
2020	$28,442.42	$65,797.67	$54,567.99	$0.00	$0.00	$148,808.09
2021	$35,033.51	$46,797.43	$67,100.32	$0.00	$0.00	$148,931.27
2022	$42,598.03	$63,902.91	$42,423.58	$0.00	$0.00	$148,924.52
2023	$52,235.07	$96,767.55	$0.00	$0.00	$0.00	$149,002.63
2024	$64,416.18	$84,559.08	$0.00	$0.00	$0.00	$148,975.26
2025	$79,422.37	$69,574.88	$0.00	$0.00	$0.00	$148,997.24
2026	$96,965.36	$51,667.48	$0.00	$0.00	$0.00	$148,632.83
2027	$117,938.30	$31,040.37	$0.00	$0.00	$0.00	$148,978.68
2028	$138,688.25	$10,311.93	$0.00	$0.00	$0.00	$149,000.19
2029	$148,322.70	$0.00	$0.00	$0.00	$0.00	$148,322.70
2030	$148,650.77	$0.00	$0.00	$0.00	$0.00	$148,650.77
2031	$148,819.55	$0.00	$0.00	$0.00	$0.00	$148,819.55
2032	$148,990.82	$0.00	$0.00	$0.00	$0.00	$148,990.82
2033	$148,435.11	$0.00	$0.00	$0.00	$0.00	$148,435.11
2034	$149,002.93	$0.00	$0.00	$0.00	$0.00	$149,002.93
2035	$148,996.21	$0.00	$0.00	$0.00	$0.00	$148,996.21
2036	$149,004.05	$0.00	$0.00	$0.00	$0.00	$149,004.05
2037	$148,988.38	$0.00	$0.00	$0.00	$0.00	$148,988.38
2038	$149,003.07	$0.00	$0.00	$0.00	$0.00	$149,003.07

Glossary

Critical PCI

Defined as the PCI value at which the rate of PCI loss increases with time, or the cost of applying localized preventive maintenance increases significantly.

Global Preventive Maintenance & Repair (M&R)

Defined as activities applied to entire pavement sections with the primary objective of slowing the rate of deterioration. This policy is applied to pavements above the critical PCI.

Localized Preventive M&R

Defined as distress maintenance activities performed with the primary objective of slowing the rate of deterioration. This policy is applied to pavements above the critical PCI.

Localized Stop-Gap (Safety) Maintenance and Repair

Stop-Gap M&R is defined as the localized M&R needed to keep the pavement operational in a safe condition. This policy is applied to pavements below the critical PCI.

Major M&R

Activities applied to the entire pavement section to correct or improve existing structural or functional requirements. It is also used to upgrade pavements below the critical PCI.

Pavement Condition Index (PCI)

The PCI is the default condition index for the PAVER™ system. It is a numerical index, ranging from 0 for a failed pavement to 100 for a pavement in perfect condition. Calculation of the PCI is based on the results of a visual condition survey in which distress type, severity, and quantity are identified. It was developed to provide an index of the pavement's structural integrity and surface operational condition.

Alligator Cracking

Alligator or fatigue cracking is a series of interconnecting cracks caused by fatigue failure of the asphalt concrete surface under repeated traffic loading. Cracking begins at the bottom of the asphalt surface (or stabilized base) where tensile stress and strain are highest under a wheel load. The cracks propagate to the surface initially as a series of parallel longitudinal cracks. After repeated traffic loading, the cracks connect, forming many sided, sharp-angled pieces that develop a pattern resembling chicken wire or the skin of an alligator. The pieces are generally less than 1-1/2 ft (0.5 m) on the longest side. Alligator cracking occurs only in areas subjected to repeated traffic loading, such as wheel paths.

Medium Severity Alligator Cracking Example

Low Severity Alligator Cracking Example

High Severity Alligator Cracking Example

Transverse (Longitudinal) Cracking / Block Cracking

Longitudinal cracks are parallel to the pavement's centerline or laydown direction. They may be caused by:

1. A poorly constructed paving lane joint.
2. Shrinkage of the AC surface due to low temperatures or hardening of the asphalt and/ or daily temperature cycling.
3. A reflective crack caused by cracking beneath the surface course, including cracks in PCC slabs (but not PCC joints).

Transverse cracks extend across the pavement at approximately right angles to the pavement centerline or direction of laydown. These types of cracks are not usually load-associated.

Block cracks are interconnected cracks that divide the pavement into approximately rectangular pieces. The blocks may range in size from approximately 1 by 1 foot (0.3 by 0.3 m) to 10 by 10 feet (3 by 3 m). Block cracking is caused mainly by shrinkage of the asphalt concrete and daily temperature cycling (which results in daily stress/ strain cycling). It is not load-associated. Block cracking usually indicates that the asphalt has hardened significantly. Block cracking normally occurs over a large portion of the pavement area, but sometimes will occur only in non-traffic areas.

Low Severity Cracking Examples

Medium Severity Cracking Examples

High Severity Cracking Examples

Bleeding

Bleeding is a film of bituminous material on the pavement surface that creates a shiny, glass-like, reflecting surface that usually becomes quite sticky. Bleeding is caused by excessive amounts of asphaltic cement or tars in the mix, excess application of a bituminous sealant, and/ or low air void content. It occurs when asphalt fills the voids of the mix during hot weather and then expands onto the pavement surface. Since the bleeding process in not reversible during cold weather, asphalt or tar will accumulate on the surface.

Medium Severity Bleeding Example

Low Severity Bleeding Example

High Severity Bleeding Example

Bumps/Sags

Bumps are small, localized, upward displacements of the pavement surface. They are different from shoves in that shoves are caused by unstable pavement. Bumps, on the other hand, can be caused by several factors, including:

1. Buckling or bulging of underlying PCC slabs in AC overlay over PCC pavement.
2. Frost heave (ice, lens growth).
3. Infiltration and buildup of material in a crack in combination with traffic loading (sometimes called "tenting").

Sags are small, abrupt, downward displacements of the pavement surface. If bumps appear in a pattern perpendicular to traffic flow and are spaced at less than 10 feet (3 m), the distress is called corrugation. Sags may also be caused by poorly compacted soils along a utility or stormwater pipe. Improper installation and poor compaction around underground appurtenances, over time, will lead to settlements in the asphalt in the form of sags.

Low Severity Bump/Sag Example

Medium Severity Bump/Sag Example

High Severity Bump/Sag Example

Patching and Utility Cuts

A patch is an area of pavement that has been replaced with new material to repair the existing pavement. A patch is considered a defect no matter how well it is performing (a patched area or adjacent area usually does not perform as well as an original pavement section). Generally, some roughness is associated with this distress.

Low Severity Patch/Cut Example

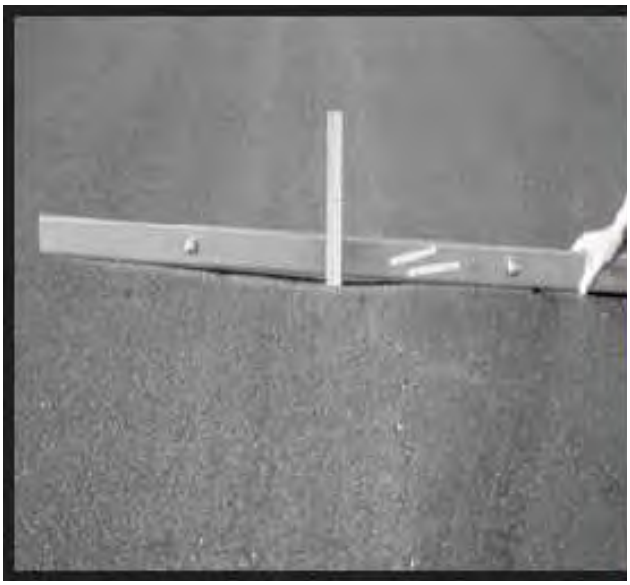
Medium Severity Patch/Cut Example

High Severity Patch/Cut Example

Rutting

A rut is a surface depression in the wheel paths. Pavement uplift may occur along the sides of the rut, but in many instances, ruts are noticeable only after a rainfall when the paths are filled with water. Rutting stems from a permanent deformation in any of the pavement layers or subgrades, usually caused by consolidated or lateral movement of the materials due to traffic load.

Low Severity Rutting Example



Medium Severity Rutting Example

High Severity Rutting Example

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Raveling

Raveling is the dislodging of coarse aggregate particles. Raveling may be caused by insufficient asphalt binder, poor mixture quality, insufficient compaction, segregation, or stripping.

Medium Severity Raveling Example

High Severity Raveling Example

Weathering

As used herein, coarse aggregate refers to predominant coarse aggregate size of the asphalt mix. Loss or dislodging of coarse aggregate is covered under raveling.

Surface wear is normally caused by oxidation, inadequate compaction, insufficient asphalt content, excessive natural sand, surface water erosion, and traffic. Weathering occurs faster in areas with high solar radiation.

Low Severity Weathering Example

Medium Severity Weathering Example

High Severity Weathering Example

Ride Quality

Ride quality is what the general public perceives as the indicator of how well a road is holding up. Edge rutting, patching and localized dips significantly contribute to how the rater should look at ride quality.

Ride quality is not to take into account rolling or mountainous terrain or curved alignment. These conditions would exist no matter if the pavement was smooth or rough.

Low Severity Ride Quality Example

Medium Severity Ride Quality Example

High Severity Ride Quality Example

2019 PAVEMENT CONDITION SURVEY
INVENTORY LISTING
ALPHABETICAL

PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T4::1::500-539	ADKINS RIDGE RD	SPICER LN	ROGERS CREEK WAY	908	22	100	Good
T4::1::446-499	ADKINS RIDGE RD	DEAD END	SPICER LN	1,010	22	100	Good
T4::2::4304-4313	ALBINO DEER WAY	ALBINO DEER WAY	DEAD END	175	20	89	Good
T7::3::500-521	ALICANTE ST	DEAD END	VIRGINIA WATER DR	263	22	69	Fair
T2::4::201-212	ALLIE BELL LN	GENEINA LN	DEAD END	466	22	65	Fair
T2::4::101-118	ALLIE BELL LN	DEAD END	GENEINA LN	693	22	92	Good
T4::5::1000-1011	AMBROSE DR	DEAD END	MITCHELL GARDEN DR	219	22	74	Satisfactory
T4::5::1100-1151	AMBROSE DR	MITCHELL GARDEN DR	FREEMAN FARM WAY	1,118	22	97	Good
T7::6::600-601	ASHBRITTLE DR	REDFORD PLACE DR	SCARCLIFFE CT	161	22	52	Poor
T7::6::602-657	ASHBRITTLE DR	SCARCLIFFE CT	LONG MELFORD DR	1,236	22	82	Satisfactory
T7::7::500-513	ASHGREEN CT	VIRGINIA WATER DR	UPWEY CT	238	22	85	Satisfactory
T7::7::514-541	ASHGREEN CT	UPWEY CT	DEAD END	328	22	92	Good
T8::8::700-715	BANN RIVER CT	SHEFFORD TOWN DR	DEAD END	234	23	93	Good
T8::9::400-465	BARNARD CASTLE CT	REDFORD PLACE DR	DEAD END	865	23	92	Good
T6::10::500-521	BARRINGTON HALL DR	BRIDGE POINT DR	LINDSAYS RUN	361	22	100	Good
T6::10::536-547	BARRINGTON HALL DR	WIDTH CHANGE	BURLINGTON MILLS RD	284	31	100	Good
T6::10::400-419	BARRINGTON HALL DR	DEAD END	BRIDGE POINT DR	255	22	83	Satisfactory
T6::10::522-535	BARRINGTON HALL DR	LINDSAYS RUN	WIDTH CHANGE	194	22	100	Good
T10::11::1400-1429	BEAVER TAN CT	DEAD END	YELLOW DUNN WAY	545	22	100	Good
T10::11::1500-1525	BEAVER TAN CT	YELLOW DUNN WAY	DEAD END	422	22	100	Good
T9::12::200-205	BELLADONNA CIR	PRISTINE LN	DEAD END	105	32	86	Good
T8::13::300-320	BENDEMEER LN	SHORT HILLS LN	PHASE CHANGE	426	22	99	Good
T8::13::400-455	BENDEMEER LN	PRIDES CRSG	INGLEMOOR LN	1,052	22	100	Good
T8::13::200-231	BENDEMEER LN	VIRGINIA WATER DR	MARSHCROFT WAY	464	22	99	Good
T8::13::232-253	BENDEMEER LN	MARSHCROFT WAY	SHORT HILLS LN	323	22	99	Good
T8::13::500-523	BENDEMEER LN	INGLEMOOR LN	KEW GARDENS WAY	431	22	100	Good
T8::13::323-335	BENDEMEER LN	PHASE CHANGE	PRIDES CRSG	213	22	75	Satisfactory
T8::13::524-535	BENDEMEER LN	KEW GARDENS WAY	DEAD END	216	23	98	Good
T1::14::1200-1205	BESSIE CT	SWEETCLOVER DR	DEAD END	192	22	100	Good
T1::14::1100-1127	BESSIE CT	DEAD END	SWEETCLOVER DR	193	22	100	Good
T3::15::401-420	BIG MAGNOLIA CT	MAGNOLIA VIEW LN	DEAD END	268	21	92	Good
T3::16::438-447	BIG WILLOW WAY	MISTY WILLOW WAY	PHASE CHANGE	210	30	76	Satisfactory

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T3::16::604-619	BIG WILLOW WAY	PHASE CHANGE	GRANITE CREEK DR	275	30	100	Good
T3::16::300-323	BIG WILLOW WAY	W YOUNG ST	MAGNOLIA VIEW LN	654	30	81	Satisfactory
T3::16::512-523	BIG WILLOW WAY	WILLOW TOWER CT	SMOKE WILLOW WAY	277	30	91	Good
T3::16::422-437	BIG WILLOW WAY	SHADY WILLOW LN	MISTY WILLOW WAY	331	30	78	Satisfactory
T3::16::448-477	BIG WILLOW WAY	PHASE CHANGE	TALL WILLOW CT	720	30	99	Good
T3::16::500-511	BIG WILLOW WAY	TALL WILLOW CT	WILLOW TOWER CT	275	30	95	Good
T3::16::400-421	BIG WILLOW WAY	MAGNOLIA VIEW LN	SHADY WILLOW LN	549	30	70	Fair
T3::16::600-603	BIG WILLOW WAY	SMOKE WILLOW WAY	PHASE CHANGE	162	30	100	Good
T2::17::100-125	BLUEBERRY CT	WATKINS FARM RD	DEAD END	614	18	90	Good
T5::18::100-207	BOWLING DR	N MAIN ST	DEAD END	928	20	8	Failed
T3::19::120-0	BRANDI CT	BRANDI DR	DEAD END	93	30	93	Good
T3::20::100-115	BRANDI DR	TERESA DR	BRANDI CT	790	22	98	Good
T3::20::126-129	BRANDI DR	BRANDI CT	TERESA DR	539	22	95	Good
T6::21::300-305	BRIDGE POINT DR	DEAD END	BARRINGTON HALL DR	166	22	100	Good
T6::21::306-317	BRIDGE POINT DR	BARRINGTON HALL DR	LINDSAYS RUN	254	22	100	Good
T6::21::318-323	BRIDGE POINT DR	LINDSAYS RUN	DEAD END	108	22	100	Good
T5::22::200-413	BROWN CIR	BROWN CIR	BROWN CIR	1,957	20	96	Good
T5::22::100-107	BROWN CIR	OLD ROGERS RD	BROWN CIR	320	20	89	Good
T8::23::600-613	CASTLE COMBE DR	HESWALL CT	REDFORD PLACE DR	352	23	99	Good
T8::23::700-705	CASTLE COMBE DR	REDFORD PLACE DR	DEAD END	130	30	97	Good
T1::24::266-282	CHARACTER DR	PHASE CHANGE	SHADOWDALE LN	452	22	99	Good
T1::24::200-265	CHARACTER DR	FLASH DR	PHASE CHANGE	1,626	22	100	Good
T10::25::5000-5029	CLOWSER MINNOW CT	GREEN DRAKE DR	REDFORD PLACE DR	598	22	100	Good
T5::26::100-105	COLEY ST	GLENN CIR	PERRY ST	454	18	96	Good
T8::27::600-639	CONNINGTON WAY	PRIDES CRSG	MARSHCROFT WAY	844	22	100	Good
T4::28::5100-5151	CORNER ROCK DR	PEELER CT	TERRELL HOUSE DR	1,102	20	87	Good
T4::28::5000-5013	CORNER ROCK DR	HERITAGE GATES DR	PEELER CT	411	20	93	Good
T6::29::606-629	CRESSTAR DR	GREEN TURRET DR	DEAD END	768	22	99	Good
T6::29::600-605	CRESSTAR DR	DEAD END	GREEN TURRET DR	185	22	87	Good
T2::30::200-205	CRESTLEIGH ST	WATERSTONE LN	DEAD END	324	22	26	Very Poor
T7::31::400-407	CRISTOBAL ST	DEAD END	VIRGINIA WATER DR	121	22	100	Good
T7::31::500-533	CRISTOBAL ST	VIRGINIA WATER DR	DEAD END	591	22	77	Satisfactory

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T2::32::300-305	CROSSINGTON CT	WATERSTONE LN	DEAD END	142	22	46	Poor
T8::33::600-641	DODDINGTON DR	VIRGINIA WATER DR	HESWALL CT	899	23	99	Good
T1::34::1150-1199	DUKE FARM DR	DEAD END	SWEETCLOVER DR	208	22	100	Good
T1::34::1100-1103	DUKE FARM DR	SWEETCLOVER DR	DEAD END	193	22	90	Good
T4::35::2700-2717	EASTERN STAR CIR	DEAD END	ROLES SADDLE DR	422	20	84	Satisfactory
T9::36::1090-1117	EVENING SHADE AVE	MIDDLE GROUND AVE	DEAD END	350	22	84	Satisfactory
T9::36::1000-1017	EVENING SHADE AVE	PRISTINE LN	DEAD END	302	22	83	Satisfactory
T9::36::1018-1089	EVENING SHADE AVE	PRISTINE LN	MIDDLE GROUND AVE	1,309	22	84	Satisfactory
T4::37::900-929	EVENING SNOW ST	DEAD END	EVENING SNOW ST	679	20	96	Good
T11::38::1400-1415	FEATHERY LN	DEAD END	TEAGUE ST	280	22	100	Good
T6::39::500-509	FISH POND CT	GREEN TURRET DR	DEAD END	312	22	97	Good
T1::40::900-923	FLASH DR	SHADOWDALE LN	PHASE CHANGE	597	36	100	Good
T1::40::940-951	FLASH DR	CHARACTER DR	JONES DAIRY RD	295	36	100	Good
T1::40::800-843	FLASH DR	DEAD END	SHADOWDALE LN	431	36	100	Good
T1::40::924-939	FLASH DR	PHASE CHANGE	CHARACTER DR	332	36	100	Good
T4::41::3051-3059	FREEMAN FARM WAY	PHASE C HANGE	MITCHELL GARDEN DR	196	22	98	Good
T4::41::3000-3031	FREEMAN FARM WAY	SPICER LN	ROGERS CREEK WAY	1,030	22	100	Good
T4::41::3100-3135	FREEMAN FARM WAY	AMBROSE DR	HERITAGE GATES DR	724	22	99	Good
T4::41::3040-3050	FREEMAN FARM WAY	KENNISON CT	PHASE CHANGE	344	22	100	Good
T4::41::3032-3039	FREEMAN FARM WAY	ROGERS CREEK WAY	KENNISON CT	327	22	100	Good
T4::41::3060-3099	FREEMAN FARM WAY	MITCHELL GARDEN DR	AMBROSE DR	847	22	94	Good
T1::42::200-259	FRIESAN WAY	TORTUGA ST	SHADOWDALE LN	1,206	22	100	Good
T1::42::100-125	FRIESAN WAY	JONES DAIRY RD	TORTUGA ST	570	22	87	Good
T7::43::500-511	FRONTERA CT	DEAD END	VIRGINIA WATER DR	101	28	92	Good
T8::44::400-407	FROYLE CT	DEAD END	VIRGINIA WATER DR	290	23	92	Good
T2::45::590-599	GENEINA LN	ALLIE BELL LN	WATERSTONE LN	514	30	81	Satisfactory
T2::45::500-589	GENEINA LN	CITY LIMIT	ALLIE BELL LN	195	30	100	Good
T2::45::600-603	GENEINA LN	WATERSTONE LN	DEAD END	132	30	88	Good
T7::46::400-413	GENOVESA DR	DEAD END	VIRGINIA WATER DR	219	22	99	Good
T7::46::500-521	GENOVESA DR	VIRGINIA WATER DR	DEAD END	462	22	96	Good
T5::47::106-111	GLENN CIR	COLEY ST	DEAD END	269	20	94	Good
T5::47::100-105	GLENN CIR	PERRY ST	COLEY ST	348	20	82	Satisfactory

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T9::48::600-609	GRAND PARK DR	DEAD END	DEAD END	279	22	36	Very Poor
T6::49::350-401	GRAND ROCK WAY	HUNTER FALLS LN	HUNTER FALLS LN	449	36	92	Good
T6::49::200-249	GRAND ROCK WAY	LEIGHANN RIDGE LN	MORGAN BROOK WAY	260	36	90	Good
T6::49::300-349	GRAND ROCK WAY	GRAND RIDGE DR	HUNTER FALLS LN	183	36	98	Good
T6::49::100-199	GRAND ROCK WAY	ROGERS RD	LEIGHANN RIDGE LN	404	36	98	Good
T6::49::250-299	GRAND ROCK WAY	MORGAN BROOK WAY	GRAND RIDGE DR	54	36	78	Satisfactory
T6::49::402-409	GRAND ROCK WAY	HUNTER FALLS LN	CITY LIMIT	29	36	79	Satisfactory
T3::50::300-327	GRANITE COVE CT	DEAD END	GRANITE CREEK DR	465	22	100	Good
T3::51::616-631	GRANITE CREEK DR	GRANITE COVE CT	GRANITE WIND CIR	323	22	100	Good
T3::51::600-615	GRANITE CREEK DR	BIG WILLOW WAY	GRANITE COVE CT	382	22	100	Good
T3::51::500-513	GRANITE CREEK DR	GRANITE SADDLE DR	BIG WILLOW WAY	352	30	100	Good
T3::51::632-663	GRANITE CREEK DR	GRANITE WIND CIR	GRANITE VIEW DR	679	22	100	Good
T3::51::400-475	GRANITE CREEK DR	GRANITE PEAK DR	GRANITE SADDLE DR	1,649	30	100	Good
T3::52::600-639	GRANITE FALLS BLVD	W YOUNG ST	GRANITE VISTA DR	361	36	93	Good
T3::52::640-799	GRANITE FALLS BLVD	GRANITE VISTA DR	GRANITE PEAK DR	1,205	36	76	Satisfactory
T2::52::500-589	GRANITE FALLS BLVD	TERRELL DR	W YOUNG ST	493	36	98	Good
T3::52::800-999	GRANITE FALLS BLVD	GRANITE PEAK DR	ROGERS RD	2,492	36	57	Fair
T3::53::708-715	GRANITE PEAK DR	CURB CHANGE	GRANITE CREEK DR	182	30	100	Good
T3::53::716-721	GRANITE PEAK DR	GRANITE CREEK DR	GRANITE SADDLE DR	335	22	98	Good
T3::53::700-707	GRANITE PEAK DR	GRANITE FALLS BLVD	CURB CHANGE	271	30	92	Good
T3::54::400-409	GRANITE SADDLE DR	GRANITE PEAK DR	PHASE CHANGE	257	21	95	Good
T3::54::300-333	GRANITE SADDLE DR	DEAD END	GRANITE PEAK DR	161	21	98	Good
T3::54::410-499	GRANITE SADDLE DR	PHASE CHANGE	GRANITE CREEK DR	1,290	21	100	Good
T3::55::400-431	GRANITE VIEW DR	DEAD END	GRANITE CREEK DR	539	22	100	Good
T3::55::500-533	GRANITE VIEW DR	GRANITE CREEK DR	DEAD END	664	22	100	Good
T3::56::400-413	GRANITE WIND CIR	GRANITE CREEK DR	DEAD END	275	22	100	Good
T4::57::5100-5105	GRANITIC DR	MASSEY BRANCH DR	VASSEUR CT	198	22	100	Good
T4::57::5106-5113	GRANITIC DR	VASSEUR CT	DEAD END	168	22	95	Good
T10::58::4306-4323	GREEN DRAKE DR	HARES EAR CT	FORESTVILLE RD	453	22	98	Good
T10::58::4071-4111	GREEN DRAKE DR	SIDEWALK CHANGE	ROYAL COACHMEN DR	394	22	98	Good
T10::58::4000-4070	GREEN DRAKE DR	ROYAL COACHMEN DR	SIDEWALK CHANGE	1,289	22	100	Good
T10::58::4112-4117	GREEN DRAKE DR	ROYAL COACHMEN DR	STONE FLY DR	203	34	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T10::58::4224-4237	GREEN DRAKE DR	RED QUILL WAY	YELLOW DUNN WAY	344	22	100	Good
T10::58::4118-4131	GREEN DRAKE DR	STONE FLY DR	CLOWSER MINNOW CT	346	22	100	Good
T10::58::4200-4223	GREEN DRAKE DR	CLOWSER MINNOW CT	RED QUILL WAY	556	22	100	Good
T10::58::4300-4305	GREEN DRAKE DR	YELLOW DUNN WAY	HARES EAR CT	178	22	100	Good
T6::59::408-419	GREEN TURRET DR	CRESSTAR DR	DEAD END	513	22	81	Satisfactory
T6::59::400-403	GREEN TURRET DR	WALL CREEK DR	FISH POND CT	336	22	90	Good
T6::59::404-407	GREEN TURRET DR	FISH POND CT	CRESSTAR DR	300	22	93	Good
T9::60::100-109	HAMPTON LAKE DR	S MAIN ST	EAGLE SCHOLARS DR	391	60	85	Satisfactory
T9::60::114-125	HAMPTON LAKE DR	MORNING STILL CT	PRISTINE LN	427	46	81	Satisfactory
T9::60::110-113	HAMPTON LAKE DR	EAGLE SCHOLARS DR	MORNING STILL CT	194	48	76	Satisfactory
T9::60::200-207	HAMPTON LAKE DR	PRISTINE LN	DEAD END	190	22	71	Satisfactory
T10::61::6024-6037	HARES EAR CT	RED QUILL WAY	DEAD END	280	22	100	Good
T10::61::6000-6023	HARES EAR CT	GREEN DRAKE DR	RED QUILL WAY	602	22	100	Good
T4::62::4300-4317	HERITAGE GATES DR	ROGERS RD	FREEMAN FARM WAY	226	36	99	Good
T4::62::4318-4349	HERITAGE GATES DR	CURB CHANGE	PHASE CHANGE	298	36	100	Good
T4::62::4351-4385	HERITAGE GATES DR	CURB CHANGE	CORNER ROCK DR	492	36	100	Good
T4::62::4500-4507	HERITAGE GATES DR	LAWSON WALK WAY	DEAD END	170	36	93	Good
T4::62::4400-4433	HERITAGE GATES DR	CORNER ROCK DR	LAWSON WALK WAY	580	36	97	Good
T8::63::520-545	HESWALL CT	DODDINGTON DR	CASTLE COMBE DR	545	23	100	Good
T8::63::546-565	HESWALL CT	CASTLE COMBE DR	DEAD END	323	23	98	Good
T8::63::500-519	HESWALL CT	VIRGINIA WATER DR	DODDINGTON DR	535	23	99	Good
T8::64::700-747	INGLEMOOR LN	DEAD END	BENDEMEER LN	390	23	97	Good
T7::65::536-551	IRINA DR	VIGO CT	VIRGINIA WATER DR	436	22	92	Good
T7::65::500-535	IRINA DR	DEAD END	VIGO CT	217	22	93	Good
T9::66::4700-4719	JERSEY PINE DR	PINE GLEN CT	DEAD END	438	22	100	Good
T9::66::4600-4625	JERSEY PINE DR	LONNIE DR	PINE GLEN CT	585	22	100	Good
T6::67::200-207	KELLYGREEN CT	WALL CREEK DR	DEAD END	309	22	42	Poor
T4::68::1000-1013	KENNISON CT	FREEMAN FARM WAY	DEAD END	245	22	100	Good
T8::69::200-259	KEW GARDENS WAY	PRIDES CRSG	BENDEMEER LN	1,141	22	100	Good
T11::70::1400-1417	KINNESAW ST	TEAGUE ST	DEAD END	389	22	100	Good
T11::71::500-509	LANSBURY ST	MACKINAW DR	DEAD END	170	20	87	Good
T4::72::2911-2920	LAWSON WALK WAY	CURB CHANGE	CURB CHANGE	113	20	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T4::72::2900-2910	LAWSON WALK WAY	MASSEY BRANCH DR	CURB CHANGE	198	20	99	Good
T4::72::2920-2931	LAWSON WALK WAY	CURB CHANGE	LORD GRANVILLE WAY	279	20	99	Good
T4::72::3000-3051	LAWSON WALK WAY	LORD GRANVILLE WAY	ROLES SADDLE DR	1,132	20	97	Good
T4::72::3100-3113	LAWSON WALK WAY	ROLES SADDLE DR	HERITAGE GATES DR	372	20	99	Good
T4::73::5700-5721	LENA BUNN CT	PLUTON PL	DEAD END	338	22	98	Good
T9::74::900-911	LILY ANNE CT	PRISTINE LN	DEAD END	154	22	81	Satisfactory
T6::75::400-421	LINDSAYS RUN	BRIDGE POINT DR	BARRINGTON HALL DR	398	22	100	Good
T7::76::500-529	LITTLEPORT DR	MIDDLEHAM DR	REDFORD PLACE DR	1,212	22	78	Satisfactory
T7::77::649-681	LONG MELFORD DR	PHASE CHANGE	DEAD END	582	22	100	Good
T7::77::600-629	LONG MELFORD DR	VIRGINIA WATER DR	ASHBRITTLE DR	573	22	86	Good
T7::77::630-648	LONG MELFORD DR	ASHBRITTLE DR	PHASE CHANGE	265	22	86	Good
T9::78::4700-4733	LONNIE DR	JERSEY PINE DR	DEAD END	532	22	93	Good
T9::78::4620-4629	LONNIE DR	LONNIE DR	JERSEY PINE DR	314	22	100	Good
T4::79::5800-5817	LORD GRANVILLE WAY	POMONA AVE	LAWSON WALK WAY	437	20	99	Good
T4::79::5706-5735	LORD GRANVILLE WAY	WANDERING WAY	POMONA AVE	635	20	94	Good
T4::79::5900-5903	LORD GRANVILLE WAY	LAWSON WALK WAY	DEAD END	159	20	100	Good
T4::79::5700-5705	LORD GRANVILLE WAY	DEAD END	WANDERING WAY	101	33	96	Good
T11::80::1200-1339	MACKINAW DR	YARDLEY DR	TEAGUE ST	1,553	22	100	Good
T11::80::1400-1425	MACKINAW DR	TEAGUE ST	FORESTVILLE RD	680	22	100	Good
T11::80::1100-1109	MACKINAW DR	DEAD END	LANSBURY ST	220	20	100	Good
T11::80::1110-1127	MACKINAW DR	LANSBURY ST	YARDLEY DR	437	20	100	Good
T7::81::400-415	MADRAZO CT	DEAD END	VIRGINIA WATER DR	227	22	83	Satisfactory
T3::82::418-443	MAGNOLIA VIEW LN	BIG MAGNOLIA CT	BIG WILLOW WAY	609	22	93	Good
T3::82::400-417	MAGNOLIA VIEW LN	W YOUNG ST	BIG MAGNOLIA CT	423	21	81	Satisfactory
T7::83::300-315	MARBELLA DR	VIRGINIA WATER DR	DEAD END	402	22	100	Good
T11::84::1400-1427	MARGRAVE DR	DEAD END	TEAGUE ST	517	22	100	Good
T11::84::1500-1517	MARGRAVE DR	TEAGUE ST	DEAD END	365	22	100	Good
T8::85::300-323	MARSHCROFT WAY	BENDEMEER LN	CONNINGTON WAY	414	22	96	Good
T8::85::326-339	MARSHCROFT WAY	CONNINGTON WAY	STRATHWOOD WAY	251	22	100	Good
T8::85::340-359	MARSHCROFT WAY	STRATHWOOD WAY	PRIDES CRSG	295	22	100	Good
T4::86::5712-5729	MASSEY BRANCH DR	GRANITIC DR	DEAD END	301	22	85	Satisfactory
T4::86::5700-5711	MASSEY BRANCH DR	LAWSON WALK WAY	GRANITIC DR	258	22	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T4::86::5600-5625	MASSEY BRANCH DR	PLUTON PL	LAWSON WALK WAY	553	22	99	Good
T4::86::5500-5517	MASSEY BRANCH DR	DEAD END	PLUTON PL	184	22	100	Good
T9::87::826-849	MIDDLE GROUND AVE	QUIET WALK CIR	PRISTINE LN	427	22	90	Good
T9::87::900-969	MIDDLE GROUND AVE	PRISTINE LN	EVENING SHADE AVE	1,435	22	72	Satisfactory
T9::87::800-825	MIDDLE GROUND AVE	DEAD END	QUIET WALK CIR	212	22	85	Satisfactory
T9::87::1000-1009	MIDDLE GROUND AVE	EVENING SHADE AVE	DEAD END	173	22	92	Good
T7::88::310-341	MIDDLEHAM DR	LITTLEPORT DR	DEAD END	440	22	68	Fair
T7::88::300-309	MIDDLEHAM DR	REDFORD PLACE DR	LITTLEPORT DR	394	22	86	Good
T11::89::1500-1511	MINART LN	DEAD END	TEAGUE ST	217	23	90	Good
T3::90::600-619	MISTY WILLOW WAY	SHADY WILLOW LN	DEAD END	399	30	94	Good
T3::90::500-545	MISTY WILLOW WAY	BIG WILLOW WAY	SHADY WILLOW LN	1,203	30	96	Good
T4::91::2300-2315	MITCHELL GARDEN DR	AMBROSE DR	FREEMAN FARM WAY	423	22	95	Good
T4::91::2200-2203	MITCHELL GARDEN DR	ROGERS RD	AMBROSE DR	228	30	100	Good
T7::92::400-415	MOLINA CT	DEAD END	VIRGINIA WATER DR	246	22	100	Good
T7::93::600-645	MONTELBAN CT	VIRGINIA WATER DR	DEAD END	218	22	95	Good
T7::94::300-313	MONTSERRAT DR	VIRGINIA WATER DR	DEAD END	361	22	100	Good
T9::95::900-911	MORNING STILL CT	HAMPTON LAKE DR	DEAD END	403	22	81	Satisfactory
T11::96::500-525	MYRNA LN	YARDLEY DR	DEAD END	573	22	100	Good
T1::97::100-103	NATE CT	SWEETCLOVER DR	DEAD END	200	22	100	Good
T2::98::300-323	NORTWICK RD	WOODLIEF FARM RD	WEATHERS ST	652	22	99	Good
T2::98::100-133	NORTWICK RD	DEAD END	TERRELL DR	204	22	100	Good
T2::98::200-251	NORTWICK RD	TERRELL DR	WOODLIEF FARM RD	1,158	22	100	Good
T5::99::5211-5222	OLD ROGERS RD	SIR WILLIAM LN	BROWN CIR	514	18	75	Satisfactory
T5::99::5301-5308	OLD ROGERS RD	BROWN CIR	S MAIN ST	386	18	68	Fair
T5::99::5101-5208	OLD ROGERS RD	DEAD END	SIR WILLIAM LN RD	93	18	75	Satisfactory
T8::100::388-425	PEASLAKE CT	DEAD END	VIRGINIA WATER DR	861	23	93	Good
T4::101::4000-4021	PEELER CT	CORNER ROCK DR	SHADRACK WAY	493	20	64	Fair
T4::101::4022-4031	PEELER CT	SHADRACK WAY	DEAD END	132	20	95	Good
T5::102::200-309	PERRY ST	GLENN CIR	COLEY ST	837	18	100	Good
T5::102::402-407	PERRY ST	COLEY ST	E YOUNG ST	422	18	100	Good
T5::102::100-105	PERRY ST	S MAIN ST	GLENN CIR	461	20	100	Good
T10::103::4000-4029	PHEASANT TAIL CT	ROYAL COACHMEN DR	DEAD END	518	22	100	Good

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T9::104::4800-4811	PINE GLEN CT	JERSEY PINE DR	DEAD END	151	22	95	Good
T2::105::500-505	PINE PEARCE CT	WATERSTONE LN	DEAD END	131	22	54	Poor
T4::106::2800-2825	PLUTON PL	DEAD END	LENA BUNN CT	268	22	100	Good
T4::106::2900-2923	PLUTON PL	LENA BUNN CT	MASSEY BRANCH DR	579	22	96	Good
T9::107::100-109	POETIC WALK DR	PRISTINE LN	DEAD END	238	22	86	Good
T4::108::7400-7439	POMONA AVE	LORD GRANVILLE WAY	ROLES SADDLE DR	993	20	99	Good
T8::109::100-115	PRIDES CRSG	JONESVILLE RD	KEW GARDENS WAY	433	22	43	Poor
T8::109::200-221	PRIDES CRSG	BENDEMEER LN	CONNINGTON WAY	364	22	100	Good
T8::109::600-623	PRIDES CRSG	MARSHCROFT WAY	VIRGINIA WATER DR	441	22	100	Good
T8::109::116-133	PRIDES CRSG	KEW GARDENS WAY	BENDEMEER LN	389	22	75	Satisfactory
T8::109::300-303	PRIDES CRSG	CONNINGTON WAY	DEAD END	123	23	100	Good
T9::110::800-809	PRISTINE LN	MIDDLE GROUND AVE	LILY ANNE CT	369	30	87	Good
T9::110::904-917	PRISTINE LN	POETIC WALK DR	BELLADONNA CIR	620	30	77	Satisfactory
T9::110::700-719	PRISTINE LN	EVENING SHADE AVE	MIDDLE GROUND AVE	370	30	84	Satisfactory
T9::110::810-825	PRISTINE LN	LILY ANNE CT	HAMPTON LAKE DR	467	30	93	Good
T9::110::918-929	PRISTINE LN	BELLADONNA CIR	TIMELESS CIR	444	30	85	Satisfactory
T9::110::600-655	PRISTINE LN	DEAD END	EVENING SHADE AVE	114	30	62	Fair
T9::110::930-939	PRISTINE LN	TIMELESS CIR	DEAD END	328	30	84	Satisfactory
T9::110::900-903	PRISTINE LN	HAMPTON LAKE DR	POETIC WALK DR	221	30	78	Satisfactory
T5::111::209-212	PULLEY ST	WIDTH CHANGE	WILLIAMS ST	278	18	99	Good
T5::111::203-208	PULLEY ST	WIDTH CHANGE	WIDTH CHANGE	135	22	100	Good
T5::111::100-202	PULLEY ST	E YOUNG ST	WIDTH CHANGE	367	28	99	Good
T9::112::700-709	QUIET WALK CIR	MIDDLE GROUND AVE	DEAD END	122	22	79	Satisfactory
T10::113::5000-5005	RED QUILL WAY	GREEN DRAKE DR	SIDEWALK CHANGE	233	22	100	Good
T10::113::5006-5023	RED QUILL WAY	SIDEWALK CHANGE	HARES EAR CT	332	22	100	Good
T8::114::0-475	REDFORD PLACE DR	REDFORD PLACE DR	VIRGINIA WATER DR	140	30	42	Poor
T8::114::620-641	REDFORD PLACE DR	TURLEYGREEN CT	STOKE HAMMOND CT	549	30	94	Good
T8::114::700-741	REDFORD PLACE DR	STOKE HAMMOND CT	BARNARD CASTLE CT	781	30	94	Good
T8::114::450-0	REDFORD PLACE DR	REDFORD PLACE DR	VIRGINIA WATER DR	137	30	86	Good
T7::114::1-1	REDFORD PLACE DR	REDFORD PLACE DR	REDFORD PLACE DR	319	24	50	Poor
T7::114::116-199	REDFORD PLACE DR	WIDTH CHANGE	REDFORD PLACE DR	1,257	49	40	Very Poor
T8::114::800-807	REDFORD PLACE DR	BARNARD CASTLE CT	SHEFFORD TOWN DR	229	30	93	Good

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T8::114::0-499	REDFORD PLACE DR	VIRGINIA WATER DR	REDFORD PLACE DR	120	30	80	Satisfactory
T8::114::476-0	REDFORD PLACE DR	VIRGINIA WATER DR	REDFORD PLACE DR	154	30	85	Satisfactory
T7::114::200-299	REDFORD PLACE DR	REDFORD PLACE DR	LITTLEPORT DR, ASHBRITTLE DR	527	37	71	Satisfactory
T7::114::300-329	REDFORD PLACE DR	LITTLEPORT DR, ASHBRITTLE DR	MIDDLEHAM DR	658	30	90	Good
T8::114::500-563	REDFORD PLACE DR	REDFORD PLACE DR	CASTLE COMBE DR	1,332	30	84	Satisfactory
T8::114::600-619	REDFORD PLACE DR	CASTLE COMBE DR	TURLEYGREEN CT	405	30	94	Good
T7::114::400-449	REDFORD PLACE DR	MIDDLEHAM DR	REDFORD PLACE DR	1,086	30	91	Good
T7::114::0-0	REDFORD PLACE DR	REDFORD PLACE DR	REDFORD PLACE DR	283	24	51	Poor
T7::114::100-115	REDFORD PLACE DR	S MAIN ST	WIDTH CHANGE	444	65	100	Good
T4::115::1206-1223	ROGERS CREEK WAY	ADKINS RIDGE RD	FREEMAN FARM WAY	389	22	100	Good
T4::115::1200-1205	ROGERS CREEK WAY	DEAD END	ADKINS RIDGE RD	180	36	100	Good
T4::116::6200-6203	ROLES SADDLE DR	DEAD END	WANDERING WAY	93	42	93	Good
T4::116::6204-6215	ROLES SADDLE DR	WANDERING WAY	EASTERN STAR CIR	276	20	99	Good
T4::116::6400-6415	ROLES SADDLE DR	POMONA AVE	LAWSON WALK WAY	402	20	99	Good
T4::116::6300-6323	ROLES SADDLE DR	EASTERN STAR CIR	POMONA AVE	455	20	99	Good
T2::117::400-407	RONCARO CT	DEAD END	WATERSTONE LN	224	22	20	Serious
T2::117::406-413	RONCARO CT	WATERSTONE LN	DEAD END	307	22	18	Serious
T10::118::5000-5007	ROYAL COACHMEN DR	FORESTVILLE RD	GREEN DRAKE DR	232	52	92	Good
T10::118::5100-5133	ROYAL COACHMEN DR	PHEASANT TAIL CT	GREEN DRAKE DR	709	52	100	Good
T10::118::5008-5019	ROYAL COACHMEN DR	GREEN DRAKE DR	PHEASANT TAIL CT	316	52	93	Good
T1::119::100-101	SAM CT	SWEETCLOVER DR	DEAD END	285	22	100	Good
T3::120::104-111	SCARBORO ST	W YOUNG ST	DEAD END	681	22	67	Fair
T7::121::300-317	SCARCLIFFE CT	ASHBRITTLE DR	DEAD END	373	22	49	Poor
T5::122::2-79	SCHOOL ST	S MAIN ST	DEAD END	1,006	22	100	Good
T1::123::334-341	SHADOWDALE LN	PHASE CHANGE	CHARACTER DR	244	22	100	Good
T1::123::458-471	SHADOWDALE LN	FRIESAN WAY	DEAD END	137	22	99	Good
T1::123::200-239	SHADOWDALE LN	DEAD END	FLASH DR	192	22	100	Good
T1::123::300-333	SHADOWDALE LN	FLASH DR	CHARACTER DR	859	22	100	Good
T1::123::400-457	SHADOWDALE LN	CHARACTER DR	FRIESAN WAY	1,086	22	100	Good
T4::124::5000-5015	SHADRACK WAY	PEELER CT	REDFORD PLACE DR	162	20	96	Good
T3::125::400-461	SHADY WILLOW LN	BIG WILLOW WAY	MISTY WILLOW WAY	1,457	21	96	Good
T8::126::600-699	SHEFFORD TOWN DR	DEAD END	STOKE HAMMOND CT	376	23	85	Satisfactory

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T8::126::900-933	SHEFFORD TOWN DR	REDFORD PLACE DR	DEAD END	291	23	85	Satisfactory
T8::126::800-825	SHEFFORD TOWN DR	BANN RIVER CT	REDFORD PLACE DR	416	23	87	Good
T8::126::700-733	SHEFFORD TOWN DR	STOKE HAMMOND CT	BANN RIVER CT	378	23	93	Good
T8::127::400-409	SHORT HILLS LN	BENDEMEER LN	DEAD END	275	23	100	Good
T2::128::100-125	SIRON CIR	WATKINS FARM RD	DEAD END	838	18	93	Good
T3::129::1000-1035	SMOKE WILLOW WAY	BIG WILLOW WAY	DEAD END	458	21	98	Good
T4::130::2-3	SPICER LN	FREEMAN FARM WAY	DEAD END	37	65	100	Good
T4::130::1308-1333	SPICER LN	ADKINS RIDGE RD	FREEMAN FARM WAY	505	22	100	Good
T4::130::1300-1307	SPICER LN	ROGERS RD	ADKINS RIDGE RD	265	36	100	Good
T6::131::300-307	STAPLES DR	DEAD END	WALL CREEK DR	330	22	89	Good
T6::131::306-323	STAPLES DR	WALL CREEK DR	SIDEWALK CHANGE	675	22	90	Good
T6::131::322-363	STAPLES DR	SIDEWALK CHANGE	DEAD END	558	22	76	Satisfactory
T8::132::200-225	STOKE HAMMOND CT	SHEFFORD TOWN DR	REDFORD PLACE DR	479	23	91	Good
T8::132::300-325	STOKE HAMMOND CT	REDFORD PLACE DR	DEAD END	375	23	94	Good
T10::133::4000-4009	STONE FLY DR	GREEN DRAKE DR	DEAD END	369	36	96	Good
T6::134::2-201	STORAGE DR	S MAIN ST	DEAD END	447	30	90	Good
T8::135::700-779	STRATHWOOD WAY	DEAD END	MARSHCROFT WAY	930	22	100	Good
T1::136::1600-1609	SWEETCLOVER DR	DUKE FARM DR	SAM CT	324	30	100	Good
T1::136::1406-1417	SWEETCLOVER DR	CITY LIMIT	DUKE FARM DR	188	30	100	Good
T1::136::1610-1619	SWEETCLOVER DR	SAM CT	AVERETTE RD	280	46	100	Good
T1::136::1528-1545	SWEETCLOVER DR	NATE CT	DUKE FARM DR	440	30	100	Good
T1::136::1418-1435	SWEETCLOVER DR	DUKE FARM DR	BESSIE CT	429	30	100	Good
T1::136::1500-1527	SWEETCLOVER DR	BESSIE CT	NATE CT	699	30	100	Good
T3::137::600-621	TALL WILLOW CT	BIG WILLOW WAY	DEAD END	384	21	96	Good
T11::138::226-247	TEAGUE ST	MARGRAVE DR	FEATHERY LN	539	22	100	Good
T11::138::426-429	TEAGUE ST	KINNESAW ST	DEAD END	114	22	100	Good
T11::138::418-425	TEAGUE ST	PHASE CHANGE	KINNESAW ST	158	23	98	Good
T11::138::408-417	TEAGUE ST	MINART LN	PHASE CHANGE	249	22	89	Good
T11::138::251-299	TEAGUE ST	FEATHERY LN	PHASE CHANGE	184	22	100	Good
T11::138::310-323	TEAGUE ST	MACKINAW DR	YARDLEY DR	380	22	100	Good
T11::138::400-407	TEAGUE ST	YARDLEY DR	MINART LN	242	23	100	Good
T11::138::300-309	TEAGUE ST	FEATHERY LN	PHASE CHANGE	189	23	100	Good

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T11::138::200-225	TEAGUE ST	DEAD END	MARGRAVE DR	196	22	100	Good
T3::139::400-413	TERESA DR	BRANDI DR	CHALK RD	480	18	100	Good
T3::139::200-331	TERESA DR	BRANDI DR	BRANDI DR	1,383	20	100	Good
T3::139::104-109	TERESA DR	W YOUNG ST	BRANDI DR	406	20	100	Good
T2::140::100-123	TERRELL DR	NORTWICK RD	GRANITE FALLS BLVD	550	22	100	Good
T2::140::222-237	TERRELL DR	WOODLIEF FARM RD	DEAD END	226	22	99	Good
T2::140::200-221	TERRELL DR	GRANITE FALLS BLVD	WOODLIEF FARM RD	528	36	99	Good
T9::141::200-205	TIMELESS CIR	PRISTINE LN	DEAD END	130	22	79	Satisfactory
T7::142::600-627	TOLEDO CT	VIRGINIA WATER DR	DEAD END	519	21	83	Satisfactory
T1::143::200-259	TORTUGA ST	FRIESAN WAY	DEAD END	1,278	22	100	Good
T8::144::300-311	TRILLICK CT	VIRGINIA WATER DR	DEAD END	187	23	71	Satisfactory
T8::145::700-719	TURLEYGREEN CT	DEAD END	REDFORD PLACE DR	180	23	94	Good
T7::146::600-617	UPWEY CT	ASHGREEN CT	DEAD END	166	22	79	Satisfactory
T4::147::5800-5817	VASSEUR CT	GRANITIC DR	DEAD END	264	22	88	Good
T7::148::600-613	VIGO CT	IRINA DR	DEAD END	163	22	87	Good
T8::149::4500-4543	VINEYARD PINE LN	JONESVILLE RD	DEAD END	486	22	99	Good
T7::150::1000-1017	VIRGINIA WATER DR	MARBELLA DR	PHASE CHANGE	352	30	100	Good
T7::150::1114-1129	VIRGINIA WATER DR	MONTELBAN CT	E YOUNG ST	371	30	93	Good
T7::150::0-1069	VIRGINIA WATER DR	VIRGINIA WATER DR	VIRGINIA WATER DR	246	20	30	Very Poor
T7::150::1020-1025	VIRGINIA WATER DR	IRINA DR	VIRGINIA WATER DR	186	30	88	Good
T7::150::1100-1103	VIRGINIA WATER DR	VIRGINIA WATER DR	ALICANTE ST	150	30	90	Good
T7::150::732-751	VIRGINIA WATER DR	FRONTERA CT	CRISTOBAL ST	345	30	100	Good
T8::150::200-389	VIRGINIA WATER DR	PRIDES CRSG	PHASE CHANGE	941	30	100	Good
T7::150::646-667	VIRGINIA WATER DR	PHASE CHANGE	MADRAZO CT	398	30	78	Satisfactory
T7::150::1018-1019	VIRGINIA WATER DR	PHASE CHANGE	IRINA DR	110	30	90	Good
T8::150::424-429	VIRGINIA WATER DR	DODDINGTON DR	PEASLAKE CT	293	30	85	Satisfactory
T7::150::600-644	VIRGINIA WATER DR	ASHGREEN CT	PHASE CHANGE	589	30	82	Satisfactory
T7::150::914-923	VIRGINIA WATER DR	MONTSERRAT DR	MOLINA CT	217	30	100	Good
T7::150::900-913	VIRGINIA WATER DR	GENOVESA DR	MONTSERRAT DR	372	30	100	Good
T7::150::924-931	VIRGINIA WATER DR	MOLINA CT	MARBELLA DR	212	30	100	Good
T8::150::390-399	VIRGINIA WATER DR	PHASE CHANGE	TRILLICK CT	180	30	36	Very Poor
T7::150::800-811	VIRGINIA WATER DR	CRISTOBAL ST	GENOVESA DR	434	30	100	Good

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T7::150::1104-1113	VIRGINIA WATER DR	ALICANTE ST	MONTELBAN CT	261	30	93	Good
T8::150::400-419	VIRGINIA WATER DR	TRILLICK CT	PHASE CHANGE	572	30	40	Very Poor
T8::150::2-99	VIRGINIA WATER DR	DEAD END	BENDEMEER LN	174	34	100	Good
T8::150::438-441	VIRGINIA WATER DR	HESWALL CT, FROYLE CT	REDFORD PLACE DR	203	30	96	Good
T7::150::1050-0	VIRGINIA WATER DR	TOLEDO CT	VIRGINIA WATER DR	194	19	97	Good
T7::150::700-731	VIRGINIA WATER DR	MADRAZO CT	FRONTERA CT	553	30	91	Good
T8::150::432-437	VIRGINIA WATER DR	PEASLAKE CT	HESWALL CT, FROYLE CT	272	30	77	Satisfactory
T8::150::420-423	VIRGINIA WATER DR	PHASE CHANGE	DODDINGTON DR	89	30	94	Good
T7::150::1026-0	VIRGINIA WATER DR	VIRGINIA WATER DR	TOLEDO CT	222	19	90	Good
T7::150::500-519	VIRGINIA WATER DR	REDFORD PLACE DR	LONG MELFORD DR	269	30	83	Satisfactory
T7::150::520-527	VIRGINIA WATER DR	LONG MELFORD DR	ASHGREEN CT	200	30	82	Satisfactory
T8::150::100-141	VIRGINIA WATER DR	BENDEMEER LN	PRIDES CRSG	729	30	98	Good
T6::151::116-117	WALL CREEK DR	STAPLES DR	GREEN TURRET DR	268	30	87	Good
T6::151::120-123	WALL CREEK DR	GREEN TURRET DR	DEAD END	353	30	82	Satisfactory
T6::151::100-109	WALL CREEK DR	S MAIN ST	KELLYGREEN CT	848	30	99	Good
T6::151::110-113	WALL CREEK DR	KELLYGREEN CT	STAPLES DR	347	30	89	Good
T4::152::1000-1021	WANDERING WAY	LORD GRANVILLE WAY	ROLES SADDLE DR	555	22	99	Good
T2::153::106-107	WATERSTONE LN	CRESTLEIGH ST	CROSSINGTON CT	356	30	29	Very Poor
T2::153::126-119	WATERSTONE LN	PINE PEARCE CT	GENEINA LN	254	30	41	Poor
T2::153::114-111	WATERSTONE LN	CROSSINGTON CT	RONCARO CT	435	30	44	Poor
T2::153::120-115	WATERSTONE LN	RONCARO CT	PINE PEARCE CT	374	30	30	Very Poor
T2::153::100-103	WATERSTONE LN	N MAIN ST	CRESTLEIGH ST	337	30	16	Serious
T2::154::100-133	WATKINS FARM RD	W YOUNG ST	SIRON CIR	856	21	94	Good
T2::154::200-219	WATKINS FARM RD	SIRON CIR	BLUEBERRY CT	559	21	90	Good
T2::154::300-401	WATKINS FARM RD	BLUEBERRY CT	DEAD END	249	21	99	Good
T2::155::100-125	WEATHERS ST	W YOUNG ST	NORTWICK RD	1,007	30	77	Satisfactory
T2::155::200-211	WEATHERS ST	NORTWICK RD	DEAD END	269	30	72	Satisfactory
T5::156::100-109	WILLIAMS ST	N MAIN ST	PULLEY ST	564	18	94	Good
T3::157::800-815	WILLOW TOWER CT	BIG WILLOW WAY	DEAD END	328	21	99	Good
T2::158::400-403	WOODLIEF FARM RD	NORTWICK RD	DEAD END	186	36	83	Satisfactory
T2::158::300-317	WOODLIEF FARM RD	TERRELL DR	NORTWICK RD	499	36	96	Good
T11::159::1508-1525	YARDLEY DR	MYRNA LN	FORESTVILLE RD	474	30	100	Good

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T11::159::1300-1399	YARDLEY DR	DEAD END	MACKINAW DR	178	30	100	Good
T11::159::1500-1507	YARDLEY DR	TEAGUE ST	MYRNA LN	337	30	100	Good
T11::159::1400-1439	YARDLEY DR	MACKINAW DR	TEAGUE ST	1,180	30	87	Good
T10::160::7007-7009	YELLOW DUNN WAY	SIDEWALK CHANGE	BEAVER TAN CT	230	22	100	Good
T10::160::7000-7006	YELLOW DUNN WAY	GREEN DRAKE DR	SIDEWALK CHANGE	210	22	100	Good

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2019 PAVEMENT CONDITION SURVEY
INVENTORY LISTING
PCI (ASCENDING)

PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T5::18::100-207	BOWLING DR	N MAIN ST	DEAD END	928	20	8	Failed
T2::153::100-103	WATERSTONE LN	N MAIN ST	CRESTLEIGH ST	337	30	16	Serious
T2::117::406-413	RONCARO CT	WATERSTONE LN	DEAD END	307	22	18	Serious
T2::117::400-407	RONCARO CT	DEAD END	WATERSTONE LN	224	22	20	Serious
T2::30::200-205	CRESTLEIGH ST	WATERSTONE LN	DEAD END	324	22	26	Very Poor
T2::153::106-107	WATERSTONE LN	CRESTLEIGH ST	CROSSINGTON CT	356	30	29	Very Poor
T7::150::0-1069	VIRGINIA WATER DR	VIRGINIA WATER DR	VIRGINIA WATER DR	246	20	30	Very Poor
T2::153::120-115	WATERSTONE LN	RONCARO CT	PINE PEARCE CT	374	30	30	Very Poor
T9::48::600-609	GRAND PARK DR	DEAD END	DEAD END	279	22	36	Very Poor
T8::150::390-399	VIRGINIA WATER DR	PHASE CHANGE	TRILLICK CT	180	30	36	Very Poor
T7::114::116-199	REDFORD PLACE DR	WIDTH CHANGE	REDFORD PLACE DR	1,257	49	40	Very Poor
T8::150::400-419	VIRGINIA WATER DR	TRILLICK CT	PHASE CHANGE	572	30	40	Very Poor
T2::153::126-119	WATERSTONE LN	PINE PEARCE CT	GENEINA LN	254	30	41	Poor
T6::67::200-207	KELLYGREEN CT	WALL CREEK DR	DEAD END	309	22	42	Poor
T8::114::0-475	REDFORD PLACE DR	REDFORD PLACE DR	VIRGINIA WATER DR	140	30	42	Poor
T8::109::100-115	PRIDES CRSG	JONESVILLE RD	KEW GARDENS WAY	433	22	43	Poor
T2::153::114-111	WATERSTONE LN	CROSSINGTON CT	RONCARO CT	435	30	44	Poor
T2::32::300-305	CROSSINGTON CT	WATERSTONE LN	DEAD END	142	22	46	Poor
T7::121::300-317	SCARCLIFFE CT	ASHBRITTLE DR	DEAD END	373	22	49	Poor
T7::114::1-1	REDFORD PLACE DR	REDFORD PLACE DR	REDFORD PLACE DR	319	24	50	Poor
T7::114::0-0	REDFORD PLACE DR	REDFORD PLACE DR	REDFORD PLACE DR	283	24	51	Poor
T7::6::600-601	ASHBRITTLE DR	REDFORD PLACE DR	SCARCLIFFE CT	161	22	52	Poor
T2::105::500-505	PINE PEARCE CT	WATERSTONE LN	DEAD END	131	22	54	Poor
T3::52::800-999	GRANITE FALLS BLVD	GRANITE PEAK DR	ROGERS RD	2,492	36	57	Fair
T9::110::600-655	PRISTINE LN	DEAD END	EVENING SHADE AVE	114	30	62	Fair
T4::101::4000-4021	PEELER CT	CORNER ROCK DR	SHADRACK WAY	493	20	64	Fair
T2::4::201-212	ALLIE BELL LN	GENEINA LN	DEAD END	466	22	65	Fair
T3::120::104-111	SCARBORO ST	W YOUNG ST	DEAD END	681	22	67	Fair
T7::88::310-341	MIDDLEHAM DR	LITTLEPORT DR	DEAD END	440	22	68	Fair
T5::99::5301-5308	OLD ROGERS RD	BROWN CIR	S MAIN ST	386	18	68	Fair
T7::3::500-521	ALICANTE ST	DEAD END	VIRGINIA WATER DR	263	22	69	Fair
T3::16::400-421	BIG WILLOW WAY	MAGNOLIA VIEW LN	SHADY WILLOW LN	549	30	70	Fair

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T9::60::200-207	HAMPTON LAKE DR	PRISTINE LN	DEAD END	190	22	71	Satisfactory
T7::114::200-299	REDFORD PLACE DR	REDFORD PLACE DR	LITTLEPORT DR, ASHBRITTLE DR	527	37	71	Satisfactory
T8::144::300-311	TRILLICK CT	VIRGINIA WATER DR	DEAD END	187	23	71	Satisfactory
T9::87::900-969	MIDDLE GROUND AVE	PRISTINE LN	EVENING SHADE AVE	1,435	22	72	Satisfactory
T2::155::200-211	WEATHERS ST	NORTWICK RD	DEAD END	269	30	72	Satisfactory
T4::5::1000-1011	AMBROSE DR	DEAD END	MITCHELL GARDEN DR	219	22	74	Satisfactory
T8::13::323-335	BENDEMEER LN	PHASE CHANGE	PRIDES CRSG	213	22	75	Satisfactory
T5::99::5211-5222	OLD ROGERS RD	SIR WILLIAM LN	BROWN CIR	514	18	75	Satisfactory
T5::99::5101-5208	OLD ROGERS RD	DEAD END	SIR WILLIAM LN RD	93	18	75	Satisfactory
T8::109::116-133	PRIDES CRSG	KEW GARDENS WAY	BENDEMEER LN	389	22	75	Satisfactory
T3::16::438-447	BIG WILLOW WAY	MISTY WILLOW WAY	PHASE CHANGE	210	30	76	Satisfactory
T3::52::640-799	GRANITE FALLS BLVD	GRANITE VISTA DR	GRANITE PEAK DR	1,205	36	76	Satisfactory
T9::60::110-113	HAMPTON LAKE DR	EAGLE SCHOLARS DR	MORNING STILL CT	194	48	76	Satisfactory
T6::131::322-363	STAPLES DR	SIDEWALK CHANGE	DEAD END	558	22	76	Satisfactory
T7::31::500-533	CRISTOBAL ST	VIRGINIA WATER DR	DEAD END	591	22	77	Satisfactory
T9::110::904-917	PRISTINE LN	POETIC WALK DR	BELLADONNA CIR	620	30	77	Satisfactory
T8::150::432-437	VIRGINIA WATER DR	PEASLAKE CT	HESWALL CT, FROYLE CT	272	30	77	Satisfactory
T2::155::100-125	WEATHERS ST	W YOUNG ST	NORTWICK RD	1,007	30	77	Satisfactory
T3::16::422-437	BIG WILLOW WAY	SHADY WILLOW LN	MISTY WILLOW WAY	331	30	78	Satisfactory
T6::49::250-299	GRAND ROCK WAY	MORGAN BROOK WAY	GRAND RIDGE DR	54	36	78	Satisfactory
T7::76::500-529	LITTLEPORT DR	MIDDLEHAM DR	REDFORD PLACE DR	1,212	22	78	Satisfactory
T9::110::900-903	PRISTINE LN	HAMPTON LAKE DR	POETIC WALK DR	221	30	78	Satisfactory
T7::150::646-667	VIRGINIA WATER DR	PHASE CHANGE	MADRAZO CT	398	30	78	Satisfactory
T6::49::402-409	GRAND ROCK WAY	HUNTER FALLS LN	CITY LIMIT	29	36	79	Satisfactory
T9::112::700-709	QUIET WALK CIR	MIDDLE GROUND AVE	DEAD END	122	22	79	Satisfactory
T9::141::200-205	TIMELESS CIR	PRISTINE LN	DEAD END	130	22	79	Satisfactory
T7::146::600-617	UPWEY CT	ASHGREEN CT	DEAD END	166	22	79	Satisfactory
T8::114::0-499	REDFORD PLACE DR	VIRGINIA WATER DR	REDFORD PLACE DR	120	30	80	Satisfactory
T3::16::300-323	BIG WILLOW WAY	W YOUNG ST	MAGNOLIA VIEW LN	654	30	81	Satisfactory
T2::45::590-599	GENEINA LN	ALLIE BELL LN	WATERSTONE LN	514	30	81	Satisfactory
T6::59::408-419	GREEN TURRET DR	CRESSTAR DR	DEAD END	513	22	81	Satisfactory
T9::60::114-125	HAMPTON LAKE DR	MORNING STILL CT	PRISTINE LN	427	46	81	Satisfactory

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T9::74::900-911	LILY ANNE CT	PRISTINE LN	DEAD END	154	22	81	Satisfactory
T3::82::400-417	MAGNOLIA VIEW LN	W YOUNG ST	BIG MAGNOLIA CT	423	21	81	Satisfactory
T9::95::900-911	MORNING STILL CT	HAMPTON LAKE DR	DEAD END	403	22	81	Satisfactory
T7::6::602-657	ASHBRITTLE DR	SCARCLIFFE CT	LONG MELFORD DR	1,236	22	82	Satisfactory
T5::47::100-105	GLENN CIR	PERRY ST	COLEY ST	348	20	82	Satisfactory
T7::150::600-644	VIRGINIA WATER DR	ASHGREEN CT	PHASE CHANGE	589	30	82	Satisfactory
T7::150::520-527	VIRGINIA WATER DR	LONG MELFORD DR	ASHGREEN CT	200	30	82	Satisfactory
T6::151::120-123	WALL CREEK DR	GREEN TURRET DR	DEAD END	353	30	82	Satisfactory
T6::10::400-419	BARRINGTON HALL DR	DEAD END	BRIDGE POINT DR	255	22	83	Satisfactory
T9::36::1000-1017	EVENING SHADE AVE	PRISTINE LN	DEAD END	302	22	83	Satisfactory
T7::81::400-415	MADRAZO CT	DEAD END	VIRGINIA WATER DR	227	22	83	Satisfactory
T7::142::600-627	TOLEDO CT	VIRGINIA WATER DR	DEAD END	519	21	83	Satisfactory
T7::150::500-519	VIRGINIA WATER DR	REDFORD PLACE DR	LONG MELFORD DR	269	30	83	Satisfactory
T2::158::400-403	WOODLIEF FARM RD	NORTWICK RD	DEAD END	186	36	83	Satisfactory
T4::35::2700-2717	EASTERN STAR CIR	DEAD END	ROLES SADDLE DR	422	20	84	Satisfactory
T9::36::1090-1117	EVENING SHADE AVE	MIDDLE GROUND AVE	DEAD END	350	22	84	Satisfactory
T9::36::1018-1089	EVENING SHADE AVE	PRISTINE LN	MIDDLE GROUND AVE	1,309	22	84	Satisfactory
T9::110::700-719	PRISTINE LN	EVENING SHADE AVE	MIDDLE GROUND AVE	370	30	84	Satisfactory
T9::110::930-939	PRISTINE LN	TIMELESS CIR	DEAD END	328	30	84	Satisfactory
T8::114::500-563	REDFORD PLACE DR	REDFORD PLACE DR	CASTLE COMBE DR	1,332	30	84	Satisfactory
T7::7::500-513	ASHGREEN CT	VIRGINIA WATER DR	UPWEY CT	238	22	85	Satisfactory
T9::60::100-109	HAMPTON LAKE DR	S MAIN ST	EAGLE SCHOLARS DR	391	60	85	Satisfactory
T4::86::5712-5729	MASSEY BRANCH DR	GRANITIC DR	DEAD END	301	22	85	Satisfactory
T9::87::800-825	MIDDLE GROUND AVE	DEAD END	QUIET WALK CIR	212	22	85	Satisfactory
T9::110::918-929	PRISTINE LN	BELLADONNA CIR	TIMELESS CIR	444	30	85	Satisfactory
T8::114::476-0	REDFORD PLACE DR	VIRGINIA WATER DR	REDFORD PLACE DR	154	30	85	Satisfactory
T8::126::600-699	SHEFFORD TOWN DR	DEAD END	STOKE HAMMOND CT	376	23	85	Satisfactory
T8::126::900-933	SHEFFORD TOWN DR	REDFORD PLACE DR	DEAD END	291	23	85	Satisfactory
T8::150::424-429	VIRGINIA WATER DR	DODDINGTON DR	PEASLAKE CT	293	30	85	Satisfactory
T9::12::200-205	BELLADONNA CIR	PRISTINE LN	DEAD END	105	32	86	Good
T7::77::600-629	LONG MELFORD DR	VIRGINIA WATER DR	ASHBRITTLE DR	573	22	86	Good
T7::77::630-648	LONG MELFORD DR	ASHBRITTLE DR	PHASE CHANGE	265	22	86	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T7::88::300-309	MIDDLEHAM DR	REDFORD PLACE DR	LITTLEPORT DR	394	22	86	Good
T9::107::100-109	POETIC WALK DR	PRISTINE LN	DEAD END	238	22	86	Good
T8::114::450-0	REDFORD PLACE DR	REDFORD PLACE DR	VIRGINIA WATER DR	137	30	86	Good
T4::28::5100-5151	CORNER ROCK DR	PEELER CT	TERRELL HOUSE DR	1,102	20	87	Good
T6::29::600-605	CRESSTAR DR	DEAD END	GREEN TURRET DR	185	22	87	Good
T1::42::100-125	FRIESAN WAY	JONES DAIRY RD	TORTUGA ST	570	22	87	Good
T11::71::500-509	LANSBURY ST	MACKINAW DR	DEAD END	170	20	87	Good
T9::110::800-809	PRISTINE LN	MIDDLE GROUND AVE	LILY ANNE CT	369	30	87	Good
T8::126::800-825	SHEFFORD TOWN DR	BANN RIVER CT	REDFORD PLACE DR	416	23	87	Good
T7::148::600-613	VIGO CT	IRINA DR	DEAD END	163	22	87	Good
T6::151::116-117	WALL CREEK DR	STAPLES DR	GREEN TURRET DR	268	30	87	Good
T11::159::1400-1439	YARDLEY DR	MACKINAW DR	TEAGUE ST	1,180	30	87	Good
T2::45::600-603	GENEINA LN	WATERSTONE LN	DEAD END	132	30	88	Good
T4::147::5800-5817	VASSEUR CT	GRANITIC DR	DEAD END	264	22	88	Good
T7::150::1020-1025	VIRGINIA WATER DR	IRINA DR	VIRGINIA WATER DR	186	30	88	Good
T4::2::4304-4313	ALBINO DEER WAY	ALBINO DEER WAY	DEAD END	175	20	89	Good
T5::22::100-107	BROWN CIR	OLD ROGERS RD	BROWN CIR	320	20	89	Good
T6::131::300-307	STAPLES DR	DEAD END	WALL CREEK DR	330	22	89	Good
T11::138::408-417	TEAGUE ST	MINART LN	PHASE CHANGE	249	22	89	Good
T6::151::110-113	WALL CREEK DR	KELLYGREEN CT	STAPLES DR	347	30	89	Good
T2::17::100-125	BLUEBERRY CT	WATKINS FARM RD	DEAD END	614	18	90	Good
T1::34::1100-1103	DUKE FARM DR	SWEETCLOVER DR	DEAD END	193	22	90	Good
T6::49::200-249	GRAND ROCK WAY	LEIGHANN RIDGE LN	MORGAN BROOK WAY	260	36	90	Good
T6::59::400-403	GREEN TURRET DR	WALL CREEK DR	FISH POND CT	336	22	90	Good
T9::87::826-849	MIDDLE GROUND AVE	QUIET WALK CIR	PRISTINE LN	427	22	90	Good
T11::89::1500-1511	MINART LN	DEAD END	TEAGUE ST	217	23	90	Good
T7::114::300-329	REDFORD PLACE DR	LITTLEPORT DR, ASHBRITTLE DR	MIDDLEHAM DR	658	30	90	Good
T6::131::306-323	STAPLES DR	WALL CREEK DR	SIDEWALK CHANGE	675	22	90	Good
T6::134::2-201	STORAGE DR	S MAIN ST	DEAD END	447	30	90	Good
T7::150::1100-1103	VIRGINIA WATER DR	VIRGINIA WATER DR	ALICANTE ST	150	30	90	Good
T7::150::1018-1019	VIRGINIA WATER DR	PHASE CHANGE	IRINA DR	110	30	90	Good
T7::150::1026-0	VIRGINIA WATER DR	VIRGINIA WATER DR	TOLEDO CT	222	19	90	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T2::154::200-219	WATKINS FARM RD	SIRON CIR	BLUEBERRY CT	559	21	90	Good
T3::16::512-523	BIG WILLOW WAY	WILLOW TOWER CT	SMOKE WILLOW WAY	277	30	91	Good
T7::114::400-449	REDFORD PLACE DR	MIDDLEHAM DR	REDFORD PLACE DR	1,086	30	91	Good
T8::132::200-225	STOKE HAMMOND CT	SHEFFORD TOWN DR	REDFORD PLACE DR	479	23	91	Good
T7::150::700-731	VIRGINIA WATER DR	MADRAZO CT	FRONTERA CT	553	30	91	Good
T2::4::101-118	ALLIE BELL LN	DEAD END	GENEINA LN	693	22	92	Good
T7::7::514-541	ASHGREEN CT	UPWEY CT	DEAD END	328	22	92	Good
T8::9::400-465	BARNARD CASTLE CT	REDFORD PLACE DR	DEAD END	865	23	92	Good
T3::15::401-420	BIG MAGNOLIA CT	MAGNOLIA VIEW LN	DEAD END	268	21	92	Good
T7::43::500-511	FRONTERA CT	DEAD END	VIRGINIA WATER DR	101	28	92	Good
T8::44::400-407	FROYLE CT	DEAD END	VIRGINIA WATER DR	290	23	92	Good
T6::49::350-401	GRAND ROCK WAY	HUNTER FALLS LN	HUNTER FALLS LN	449	36	92	Good
T3::53::700-707	GRANITE PEAK DR	GRANITE FALLS BLVD	CURB CHANGE	271	30	92	Good
T7::65::536-551	IRINA DR	VIGO CT	VIRGINIA WATER DR	436	22	92	Good
T9::87::1000-1009	MIDDLE GROUND AVE	EVENING SHADE AVE	DEAD END	173	22	92	Good
T10::118::5000-5007	ROYAL COACHMEN DR	FORESTVILLE RD	GREEN DRAKE DR	232	52	92	Good
T8::8::700-715	BANN RIVER CT	SHEFFORD TOWN DR	DEAD END	234	23	93	Good
T3::19::120-0	BRANDI CT	BRANDI DR	DEAD END	93	30	93	Good
T4::28::5000-5013	CORNER ROCK DR	HERITAGE GATES DR	PEELER CT	411	20	93	Good
T3::52::600-639	GRANITE FALLS BLVD	W YOUNG ST	GRANITE VISTA DR	361	36	93	Good
T6::59::404-407	GREEN TURRET DR	FISH POND CT	CRESSTAR DR	300	22	93	Good
T4::62::4500-4507	HERITAGE GATES DR	LAWSON WALK WAY	DEAD END	170	36	93	Good
T7::65::500-535	IRINA DR	DEAD END	VIGO CT	217	22	93	Good
T9::78::4700-4733	LONNIE DR	JERSEY PINE DR	DEAD END	532	22	93	Good
T3::82::418-443	MAGNOLIA VIEW LN	BIG MAGNOLIA CT	BIG WILLOW WAY	609	22	93	Good
T8::100::388-425	PEASLAKE CT	DEAD END	VIRGINIA WATER DR	861	23	93	Good
T9::110::810-825	PRISTINE LN	LILY ANNE CT	HAMPTON LAKE DR	467	30	93	Good
T8::114::800-807	REDFORD PLACE DR	BARNARD CASTLE CT	SHEFFORD TOWN DR	229	30	93	Good
T4::116::6200-6203	ROLES SADDLE DR	DEAD END	WANDERING WAY	93	42	93	Good
T10::118::5008-5019	ROYAL COACHMEN DR	GREEN DRAKE DR	PHEASANT TAIL CT	316	52	93	Good
T8::126::700-733	SHEFFORD TOWN DR	STOKE HAMMOND CT	BANN RIVER CT	378	23	93	Good
T2::128::100-125	SIRON CIR	WATKINS FARM RD	DEAD END	838	18	93	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T7::150::1114-1129	VIRGINIA WATER DR	MONTELBAN CT	E YOUNG ST	371	30	93	Good
T7::150::1104-1113	VIRGINIA WATER DR	ALICANTE ST	MONTELBAN CT	261	30	93	Good
T4::41::3060-3099	FREEMAN FARM WAY	MITCHELL GARDEN DR	AMBROSE DR	847	22	94	Good
T5::47::106-111	GLENN CIR	COLEY ST	DEAD END	269	20	94	Good
T4::79::5706-5735	LORD GRANVILLE WAY	WANDERING WAY	POMONA AVE	635	20	94	Good
T3::90::600-619	MISTY WILLOW WAY	SHADY WILLOW LN	DEAD END	399	30	94	Good
T8::114::620-641	REDFORD PLACE DR	TURLEYGREEN CT	STOKE HAMMOND CT	549	30	94	Good
T8::114::700-741	REDFORD PLACE DR	STOKE HAMMOND CT	BARNARD CASTLE CT	781	30	94	Good
T8::114::600-619	REDFORD PLACE DR	CASTLE COMBE DR	TURLEYGREEN CT	405	30	94	Good
T8::132::300-325	STOKE HAMMOND CT	REDFORD PLACE DR	DEAD END	375	23	94	Good
T8::145::700-719	TURLEYGREEN CT	DEAD END	REDFORD PLACE DR	180	23	94	Good
T8::150::420-423	VIRGINIA WATER DR	PHASE CHANGE	DODDINGTON DR	89	30	94	Good
T2::154::100-133	WATKINS FARM RD	W YOUNG ST	SIRON CIR	856	21	94	Good
T5::156::100-109	WILLIAMS ST	N MAIN ST	PULLEY ST	564	18	94	Good
T3::16::500-511	BIG WILLOW WAY	TALL WILLOW CT	WILLOW TOWER CT	275	30	95	Good
T3::20::126-129	BRANDI DR	BRANDI CT	TERESA DR	539	22	95	Good
T3::54::400-409	GRANITE SADDLE DR	GRANITE PEAK DR	PHASE CHANGE	257	21	95	Good
T4::57::5106-5113	GRANITIC DR	VASSEUR CT	DEAD END	168	22	95	Good
T4::91::2300-2315	MITCHELL GARDEN DR	AMBROSE DR	FREEMAN FARM WAY	423	22	95	Good
T7::93::600-645	MONTELBAN CT	VIRGINIA WATER DR	DEAD END	218	22	95	Good
T4::101::4022-4031	PEELER CT	SHADRACK WAY	DEAD END	132	20	95	Good
T9::104::4800-4811	PINE GLEN CT	JERSEY PINE DR	DEAD END	151	22	95	Good
T5::22::200-413	BROWN CIR	BROWN CIR	BROWN CIR	1,957	20	96	Good
T5::26::100-105	COLEY ST	GLENN CIR	PERRY ST	454	18	96	Good
T4::37::900-929	EVENING SNOW ST	DEAD END	EVENING SNOW ST	679	20	96	Good
T7::46::500-521	GENOVESA DR	VIRGINIA WATER DR	DEAD END	462	22	96	Good
T4::79::5700-5705	LORD GRANVILLE WAY	DEAD END	WANDERING WAY	101	33	96	Good
T8::85::300-323	MARSHCROFT WAY	BENDEMEER LN	CONNINGTON WAY	414	22	96	Good
T3::90::500-545	MISTY WILLOW WAY	BIG WILLOW WAY	SHADY WILLOW LN	1,203	30	96	Good
T4::106::2900-2923	PLUTON PL	LENA BUNN CT	MASSEY BRANCH DR	579	22	96	Good
T4::124::5000-5015	SHADRACK WAY	PEELER CT	REDFORD PLACE DR	162	20	96	Good
T3::125::400-461	SHADY WILLOW LN	BIG WILLOW WAY	MISTY WILLOW WAY	1,457	21	96	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T10::133::4000-4009	STONE FLY DR	GREEN DRAKE DR	DEAD END	369	36	96	Good
T3::137::600-621	TALL WILLOW CT	BIG WILLOW WAY	DEAD END	384	21	96	Good
T8::150::438-441	VIRGINIA WATER DR	HESWALL CT, FROYLE CT	REDFORD PLACE DR	203	30	96	Good
T2::158::300-317	WOODLIEF FARM RD	TERRELL DR	NORTWICK RD	499	36	96	Good
T4::5::1100-1151	AMBROSE DR	MITCHELL GARDEN DR	FREEMAN FARM WAY	1,118	22	97	Good
T8::23::700-705	CASTLE COMBE DR	REDFORD PLACE DR	DEAD END	130	30	97	Good
T6::39::500-509	FISH POND CT	GREEN TURRET DR	DEAD END	312	22	97	Good
T4::62::4400-4433	HERITAGE GATES DR	CORNER ROCK DR	LAWSON WALK WAY	580	36	97	Good
T8::64::700-747	INGLEMOOR LN	DEAD END	BENDEMEER LN	390	23	97	Good
T4::72::3000-3051	LAWSON WALK WAY	LORD GRANVILLE WAY	ROLES SADDLE DR	1,132	20	97	Good
T7::150::1050-0	VIRGINIA WATER DR	TOLEDO CT	VIRGINIA WATER DR	194	19	97	Good
T8::13::524-535	BENDEMEER LN	KEW GARDENS WAY	DEAD END	216	23	98	Good
T3::20::100-115	BRANDI DR	TERESA DR	BRANDI CT	790	22	98	Good
T4::41::3051-3059	FREEMAN FARM WAY	PHASE C HANGE	MITCHELL GARDEN DR	196	22	98	Good
T6::49::300-349	GRAND ROCK WAY	GRAND RIDGE DR	HUNTER FALLS LN	183	36	98	Good
T6::49::100-199	GRAND ROCK WAY	ROGERS RD	LEIGHANN RIDGE LN	404	36	98	Good
T2::52::500-589	GRANITE FALLS BLVD	TERRELL DR	W YOUNG ST	493	36	98	Good
T3::53::716-721	GRANITE PEAK DR	GRANITE CREEK DR	GRANITE SADDLE DR	335	22	98	Good
T3::54::300-333	GRANITE SADDLE DR	DEAD END	GRANITE PEAK DR	161	21	98	Good
T10::58::4306-4323	GREEN DRAKE DR	HARES EAR CT	FORESTVILLE RD	453	22	98	Good
T10::58::4071-4111	GREEN DRAKE DR	SIDEWALK CHANGE	ROYAL COACHMEN DR	394	22	98	Good
T8::63::546-565	HESWALL CT	CASTLE COMBE DR	DEAD END	323	23	98	Good
T4::73::5700-5721	LENA BUNN CT	PLUTON PL	DEAD END	338	22	98	Good
T3::129::1000-1035	SMOKE WILLOW WAY	BIG WILLOW WAY	DEAD END	458	21	98	Good
T11::138::418-425	TEAGUE ST	PHASE CHANGE	KINNESAW ST	158	23	98	Good
T8::150::100-141	VIRGINIA WATER DR	BENDEMEER LN	PRIDES CRSG	729	30	98	Good
T8::13::300-320	BENDEMEER LN	SHORT HILLS LN	PHASE CHANGE	426	22	99	Good
T8::13::200-231	BENDEMEER LN	VIRGINIA WATER DR	MARSHCROFT WAY	464	22	99	Good
T8::13::232-253	BENDEMEER LN	MARSHCROFT WAY	SHORT HILLS LN	323	22	99	Good
T3::16::448-477	BIG WILLOW WAY	PHASE CHANGE	TALL WILLOW CT	720	30	99	Good
T8::23::600-613	CASTLE COMBE DR	HESWALL CT	REDFORD PLACE DR	352	23	99	Good
T1::24::266-282	CHARACTER DR	PHASE CHANGE	SHADOWDALE LN	452	22	99	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T6::29::606-629	CRESSTAR DR	GREEN TURRET DR	DEAD END	768	22	99	Good
T8::33::600-641	DODDINGTON DR	VIRGINIA WATER DR	HESWALL CT	899	23	99	Good
T4::41::3100-3135	FREEMAN FARM WAY	AMBROSE DR	HERITAGE GATES DR	724	22	99	Good
T7::46::400-413	GENOVESA DR	DEAD END	VIRGINIA WATER DR	219	22	99	Good
T4::62::4300-4317	HERITAGE GATES DR	ROGERS RD	FREEMAN FARM WAY	226	36	99	Good
T8::63::500-519	HESWALL CT	VIRGINIA WATER DR	DODDINGTON DR	535	23	99	Good
T4::72::2900-2910	LAWSON WALK WAY	MASSEY BRANCH DR	CURB CHANGE	198	20	99	Good
T4::72::2920-2931	LAWSON WALK WAY	CURB CHANGE	LORD GRANVILLE WAY	279	20	99	Good
T4::72::3100-3113	LAWSON WALK WAY	ROLES SADDLE DR	HERITAGE GATES DR	372	20	99	Good
T4::79::5800-5817	LORD GRANVILLE WAY	POMONA AVE	LAWSON WALK WAY	437	20	99	Good
T4::86::5600-5625	MASSEY BRANCH DR	PLUTON PL	LAWSON WALK WAY	553	22	99	Good
T2::98::300-323	NORTWICK RD	WOODLIEF FARM RD	WEATHERS ST	652	22	99	Good
T4::108::7400-7439	POMONA AVE	LORD GRANVILLE WAY	ROLES SADDLE DR	993	20	99	Good
T5::111::209-212	PULLEY ST	WIDTH CHANGE	WILLIAMS ST	278	18	99	Good
T5::111::100-202	PULLEY ST	E YOUNG ST	WIDTH CHANGE	367	28	99	Good
T4::116::6204-6215	ROLES SADDLE DR	WANDERING WAY	EASTERN STAR CIR	276	20	99	Good
T4::116::6400-6415	ROLES SADDLE DR	POMONA AVE	LAWSON WALK WAY	402	20	99	Good
T4::116::6300-6323	ROLES SADDLE DR	EASTERN STAR CIR	POMONA AVE	455	20	99	Good
T1::123::458-471	SHADOWDALE LN	FRIESAN WAY	DEAD END	137	22	99	Good
T2::140::222-237	TERRELL DR	WOODLIEF FARM RD	DEAD END	226	22	99	Good
T2::140::200-221	TERRELL DR	GRANITE FALLS BLVD	WOODLIEF FARM RD	528	36	99	Good
T8::149::4500-4543	VINEYARD PINE LN	JONESVILLE RD	DEAD END	486	22	99	Good
T6::151::100-109	WALL CREEK DR	S MAIN ST	KELLYGREEN CT	848	30	99	Good
T4::152::1000-1021	WANDERING WAY	LORD GRANVILLE WAY	ROLES SADDLE DR	555	22	99	Good
T2::154::300-401	WATKINS FARM RD	BLUEBERRY CT	DEAD END	249	21	99	Good
T3::157::800-815	WILLOW TOWER CT	BIG WILLOW WAY	DEAD END	328	21	99	Good
T4::1::500-539	ADKINS RIDGE RD	SPICER LN	ROGERS CREEK WAY	908	22	100	Good
T4::1::446-499	ADKINS RIDGE RD	DEAD END	SPICER LN	1,010	22	100	Good
T6::10::500-521	BARRINGTON HALL DR	BRIDGE POINT DR	LINDSAYS RUN	361	22	100	Good
T6::10::536-547	BARRINGTON HALL DR	WIDTH CHANGE	BURLINGTON MILLS RD	284	31	100	Good
T6::10::522-535	BARRINGTON HALL DR	LINDSAYS RUN	WIDTH CHANGE	194	22	100	Good
T10::11::1400-1429	BEAVER TAN CT	DEAD END	YELLOW DUNN WAY	545	22	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T10::11::1500-1525	BEAVER TAN CT	YELLOW DUNN WAY	DEAD END	422	22	100	Good
T8::13::400-455	BENDEMEER LN	PRIDES CRSG	INGLEMOOR LN	1,052	22	100	Good
T8::13::500-523	BENDEMEER LN	INGLEMOOR LN	KEW GARDENS WAY	431	22	100	Good
T1::14::1200-1205	BESSIE CT	SWEETCLOVER DR	DEAD END	192	22	100	Good
T1::14::1100-1127	BESSIE CT	DEAD END	SWEETCLOVER DR	193	22	100	Good
T3::16::604-619	BIG WILLOW WAY	PHASE CHANGE	GRANITE CREEK DR	275	30	100	Good
T3::16::600-603	BIG WILLOW WAY	SMOKE WILLOW WAY	PHASE CHANGE	162	30	100	Good
T6::21::300-305	BRIDGE POINT DR	DEAD END	BARRINGTON HALL DR	166	22	100	Good
T6::21::306-317	BRIDGE POINT DR	BARRINGTON HALL DR	LINDSAYS RUN	254	22	100	Good
T6::21::318-323	BRIDGE POINT DR	LINDSAYS RUN	DEAD END	108	22	100	Good
T1::24::200-265	CHARACTER DR	FLASH DR	PHASE CHANGE	1,626	22	100	Good
T10::25::5000-5029	CLOWSER MINNOW CT	GREEN DRAKE DR	REDFORD PLACE DR	598	22	100	Good
T8::27::600-639	CONNINGTON WAY	PRIDES CRSG	MARSHCROFT WAY	844	22	100	Good
T7::31::400-407	CRISTOBAL ST	DEAD END	VIRGINIA WATER DR	121	22	100	Good
T1::34::1150-1199	DUKE FARM DR	DEAD END	SWEETCLOVER DR	208	22	100	Good
T11::38::1400-1415	FEATHERY LN	DEAD END	TEAGUE ST	280	22	100	Good
T1::40::900-923	FLASH DR	SHADOWDALE LN	PHASE CHANGE	597	36	100	Good
T1::40::940-951	FLASH DR	CHARACTER DR	JONES DAIRY RD	295	36	100	Good
T1::40::800-843	FLASH DR	DEAD END	SHADOWDALE LN	431	36	100	Good
T1::40::924-939	FLASH DR	PHASE CHANGE	CHARACTER DR	332	36	100	Good
T4::41::3000-3031	FREEMAN FARM WAY	SPICER LN	ROGERS CREEK WAY	1,030	22	100	Good
T4::41::3040-3050	FREEMAN FARM WAY	KENNISON CT	PHASE CHANGE	344	22	100	Good
T4::41::3032-3039	FREEMAN FARM WAY	ROGERS CREEK WAY	KENNISON CT	327	22	100	Good
T1::42::200-259	FRIESAN WAY	TORTUGA ST	SHADOWDALE LN	1,206	22	100	Good
T2::45::500-589	GENEINA LN	CITY LIMIT	ALLIE BELL LN	195	30	100	Good
T3::50::300-327	GRANITE COVE CT	DEAD END	GRANITE CREEK DR	465	22	100	Good
T3::51::616-631	GRANITE CREEK DR	GRANITE COVE CT	GRANITE WIND CIR	323	22	100	Good
T3::51::600-615	GRANITE CREEK DR	BIG WILLOW WAY	GRANITE COVE CT	382	22	100	Good
T3::51::500-513	GRANITE CREEK DR	GRANITE SADDLE DR	BIG WILLOW WAY	352	30	100	Good
T3::51::632-663	GRANITE CREEK DR	GRANITE WIND CIR	GRANITE VIEW DR	679	22	100	Good
T3::51::400-475	GRANITE CREEK DR	GRANITE PEAK DR	GRANITE SADDLE DR	1,649	30	100	Good
T3::53::708-715	GRANITE PEAK DR	CURB CHANGE	GRANITE CREEK DR	182	30	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T3::54::410-499	GRANITE SADDLE DR	PHASE CHANGE	GRANITE CREEK DR	1,290	21	100	Good
T3::55::400-431	GRANITE VIEW DR	DEAD END	GRANITE CREEK DR	539	22	100	Good
T3::55::500-533	GRANITE VIEW DR	GRANITE CREEK DR	DEAD END	664	22	100	Good
T3::56::400-413	GRANITE WIND CIR	GRANITE CREEK DR	DEAD END	275	22	100	Good
T4::57::5100-5105	GRANITIC DR	MASSEY BRANCH DR	VASSEUR CT	198	22	100	Good
T10::58::4000-4070	GREEN DRAKE DR	ROYAL COACHMEN DR	SIDEWALK CHANGE	1,289	22	100	Good
T10::58::4112-4117	GREEN DRAKE DR	ROYAL COACHMEN DR	STONE FLY DR	203	34	100	Good
T10::58::4224-4237	GREEN DRAKE DR	RED QUILL WAY	YELLOW DUNN WAY	344	22	100	Good
T10::58::4118-4131	GREEN DRAKE DR	STONE FLY DR	CLOWSER MINNOW CT	346	22	100	Good
T10::58::4200-4223	GREEN DRAKE DR	CLOWSER MINNOW CT	RED QUILL WAY	556	22	100	Good
T10::58::4300-4305	GREEN DRAKE DR	YELLOW DUNN WAY	HARES EAR CT	178	22	100	Good
T10::61::6024-6037	HARES EAR CT	RED QUILL WAY	DEAD END	280	22	100	Good
T10::61::6000-6023	HARES EAR CT	GREEN DRAKE DR	RED QUILL WAY	602	22	100	Good
T4::62::4318-4349	HERITAGE GATES DR	CURB CHANGE	PHASE CHANGE	298	36	100	Good
T4::62::4351-4385	HERITAGE GATES DR	CURB CHANGE	CORNER ROCK DR	492	36	100	Good
T8::63::520-545	HESWALL CT	DODDINGTON DR	CASTLE COMBE DR	545	23	100	Good
T9::66::4700-4719	JERSEY PINE DR	PINE GLEN CT	DEAD END	438	22	100	Good
T9::66::4600-4625	JERSEY PINE DR	LONNIE DR	PINE GLEN CT	585	22	100	Good
T4::68::1000-1013	KENNISON CT	FREEMAN FARM WAY	DEAD END	245	22	100	Good
T8::69::200-259	KEW GARDENS WAY	PRIDES CRSG	BENDEMEER LN	1,141	22	100	Good
T11::70::1400-1417	KINNESAW ST	TEAGUE ST	DEAD END	389	22	100	Good
T4::72::2911-2920	LAWSON WALK WAY	CURB CHANGE	CURB CHANGE	113	20	100	Good
T6::75::400-421	LINDSAYS RUN	BRIDGE POINT DR	BARRINGTON HALL DR	398	22	100	Good
T7::77::649-681	LONG MELFORD DR	PHASE CHANGE	DEAD END	582	22	100	Good
T9::78::4620-4629	LONNIE DR	LONNIE DR	JERSEY PINE DR	314	22	100	Good
T4::79::5900-5903	LORD GRANVILLE WAY	LAWSON WALK WAY	DEAD END	159	20	100	Good
T11::80::1200-1339	MACKINAW DR	YARDLEY DR	TEAGUE ST	1,553	22	100	Good
T11::80::1400-1425	MACKINAW DR	TEAGUE ST	FORESTVILLE RD	680	22	100	Good
T11::80::1100-1109	MACKINAW DR	DEAD END	LANSBURY ST	220	20	100	Good
T11::80::1110-1127	MACKINAW DR	LANSBURY ST	YARDLEY DR	437	20	100	Good
T7::83::300-315	MARBELLA DR	VIRGINIA WATER DR	DEAD END	402	22	100	Good
T11::84::1400-1427	MARGRAVE DR	DEAD END	TEAGUE ST	517	22	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T11::84::1500-1517	MARGRAVE DR	TEAGUE ST	DEAD END	365	22	100	Good
T8::85::326-339	MARSHCROFT WAY	CONNINGTON WAY	STRATHWOOD WAY	251	22	100	Good
T8::85::340-359	MARSHCROFT WAY	STRATHWOOD WAY	PRIDES CRSG	295	22	100	Good
T4::86::5700-5711	MASSEY BRANCH DR	LAWSON WALK WAY	GRANITIC DR	258	22	100	Good
T4::86::5500-5517	MASSEY BRANCH DR	DEAD END	PLUTON PL	184	22	100	Good
T4::91::2200-2203	MITCHELL GARDEN DR	ROGERS RD	AMBROSE DR	228	30	100	Good
T7::92::400-415	MOLINA CT	DEAD END	VIRGINIA WATER DR	246	22	100	Good
T7::94::300-313	MONTSERRAT DR	VIRGINIA WATER DR	DEAD END	361	22	100	Good
T11::96::500-525	MYRNA LN	YARDLEY DR	DEAD END	573	22	100	Good
T1::97::100-103	NATE CT	SWEETCLOVER DR	DEAD END	200	22	100	Good
T2::98::100-133	NORTWICK RD	DEAD END	TERRELL DR	204	22	100	Good
T2::98::200-251	NORTWICK RD	TERRELL DR	WOODLIEF FARM RD	1,158	22	100	Good
T5::102::200-309	PERRY ST	GLENN CIR	COLEY ST	837	18	100	Good
T5::102::402-407	PERRY ST	COLEY ST	E YOUNG ST	422	18	100	Good
T5::102::100-105	PERRY ST	S MAIN ST	GLENN CIR	461	20	100	Good
T10::103::4000-4029	PHEASANT TAIL CT	ROYAL COACHMEN DR	DEAD END	518	22	100	Good
T4::106::2800-2825	PLUTON PL	DEAD END	LENA BUNN CT	268	22	100	Good
T8::109::200-221	PRIDES CRSG	BENDEMEER LN	CONNINGTON WAY	364	22	100	Good
T8::109::600-623	PRIDES CRSG	MARSHCROFT WAY	VIRGINIA WATER DR	441	22	100	Good
T8::109::300-303	PRIDES CRSG	CONNINGTON WAY	DEAD END	123	23	100	Good
T5::111::203-208	PULLEY ST	WIDTH CHANGE	WIDTH CHANGE	135	22	100	Good
T10::113::5000-5005	RED QUILL WAY	GREEN DRAKE DR	SIDEWALK CHANGE	233	22	100	Good
T10::113::5006-5023	RED QUILL WAY	SIDEWALK CHANGE	HARES EAR CT	332	22	100	Good
T7::114::100-115	REDFORD PLACE DR	S MAIN ST	WIDTH CHANGE	444	65	100	Good
T4::115::1206-1223	ROGERS CREEK WAY	ADKINS RIDGE RD	FREEMAN FARM WAY	389	22	100	Good
T4::115::1200-1205	ROGERS CREEK WAY	DEAD END	ADKINS RIDGE RD	180	36	100	Good
T10::118::5100-5133	ROYAL COACHMEN DR	PHEASANT TAIL CT	GREEN DRAKE DR	709	52	100	Good
T1::119::100-101	SAM CT	SWEETCLOVER DR	DEAD END	285	22	100	Good
T5::122::2-79	SCHOOL ST	S MAIN ST	DEAD END	1,006	22	100	Good
T1::123::334-341	SHADOWDALE LN	PHASE CHANGE	CHARACTER DR	244	22	100	Good
T1::123::200-239	SHADOWDALE LN	DEAD END	FLASH DR	192	22	100	Good
T1::123::300-333	SHADOWDALE LN	FLASH DR	CHARACTER DR	859	22	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T1::123::400-457	SHADOWDALE LN	CHARACTER DR	FRIESAN WAY	1,086	22	100	Good
T8::127::400-409	SHORT HILLS LN	BENDEMEER LN	DEAD END	275	23	100	Good
T4::130::2-3	SPICER LN	FREEMAN FARM WAY	DEAD END	37	65	100	Good
T4::130::1308-1333	SPICER LN	ADKINS RIDGE RD	FREEMAN FARM WAY	505	22	100	Good
T4::130::1300-1307	SPICER LN	ROGERS RD	ADKINS RIDGE RD	265	36	100	Good
T8::135::700-779	STRATHWOOD WAY	DEAD END	MARSHCROFT WAY	930	22	100	Good
T1::136::1600-1609	SWEETCLOVER DR	DUKE FARM DR	SAM CT	324	30	100	Good
T1::136::1406-1417	SWEETCLOVER DR	CITY LIMIT	DUKE FARM DR	188	30	100	Good
T1::136::1610-1619	SWEETCLOVER DR	SAM CT	AVERETTE RD	280	46	100	Good
T1::136::1528-1545	SWEETCLOVER DR	NATE CT	DUKE FARM DR	440	30	100	Good
T1::136::1418-1435	SWEETCLOVER DR	DUKE FARM DR	BESSIE CT	429	30	100	Good
T1::136::1500-1527	SWEETCLOVER DR	BESSIE CT	NATE CT	699	30	100	Good
T11::138::226-247	TEAGUE ST	MARGRAVE DR	FEATHERY LN	539	22	100	Good
T11::138::426-429	TEAGUE ST	KINNESAW ST	DEAD END	114	22	100	Good
T11::138::251-299	TEAGUE ST	FEATHERY LN	PHASE CHANGE	184	22	100	Good
T11::138::310-323	TEAGUE ST	MACKINAW DR	YARDLEY DR	380	22	100	Good
T11::138::400-407	TEAGUE ST	YARDLEY DR	MINART LN	242	23	100	Good
T11::138::300-309	TEAGUE ST	FEATHERY LN	PHASE CHANGE	189	23	100	Good
T11::138::200-225	TEAGUE ST	DEAD END	MARGRAVE DR	196	22	100	Good
T3::139::400-413	TERESA DR	BRANDI DR	CHALK RD	480	18	100	Good
T3::139::200-331	TERESA DR	BRANDI DR	BRANDI DR	1,383	20	100	Good
T3::139::104-109	TERESA DR	W YOUNG ST	BRANDI DR	406	20	100	Good
T2::140::100-123	TERRELL DR	NORTWICK RD	GRANITE FALLS BLVD	550	22	100	Good
T1::143::200-259	TORTUGA ST	FRIESAN WAY	DEAD END	1,278	22	100	Good
T7::150::1000-1017	VIRGINIA WATER DR	MARBELLA DR	PHASE CHANGE	352	30	100	Good
T7::150::732-751	VIRGINIA WATER DR	FRONTERA CT	CRISTOBAL ST	345	30	100	Good
T8::150::200-389	VIRGINIA WATER DR	PRIDES CRSG	PHASE CHANGE	941	30	100	Good
T7::150::914-923	VIRGINIA WATER DR	MONTSERRAT DR	MOLINA CT	217	30	100	Good
T7::150::900-913	VIRGINIA WATER DR	GENOVESA DR	MONTSERRAT DR	372	30	100	Good
T7::150::924-931	VIRGINIA WATER DR	MOLINA CT	MARBELLA DR	212	30	100	Good
T7::150::800-811	VIRGINIA WATER DR	CRISTOBAL ST	GENOVESA DR	434	30	100	Good
T8::150::2-99	VIRGINIA WATER DR	DEAD END	BENDEMEER LN	174	34	100	Good

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PID	Branch Name	From	To	Length	Width	PCI	PCI Category
T11::159::1508-1525	YARDLEY DR	MYRNA LN	FORESTVILLE RD	474	30	100	Good
T11::159::1300-1399	YARDLEY DR	DEAD END	MACKINAW DR	178	30	100	Good
T11::159::1500-1507	YARDLEY DR	TEAGUE ST	MYRNA LN	337	30	100	Good
T10::160::7007-7009	YELLOW DUNN WAY	SIDEWALK CHANGE	BEAVER TAN CT	230	22	100	Good
T10::160::7000-7006	YELLOW DUNN WAY	GREEN DRAKE DR	SIDEWALK CHANGE	210	22	100	Good

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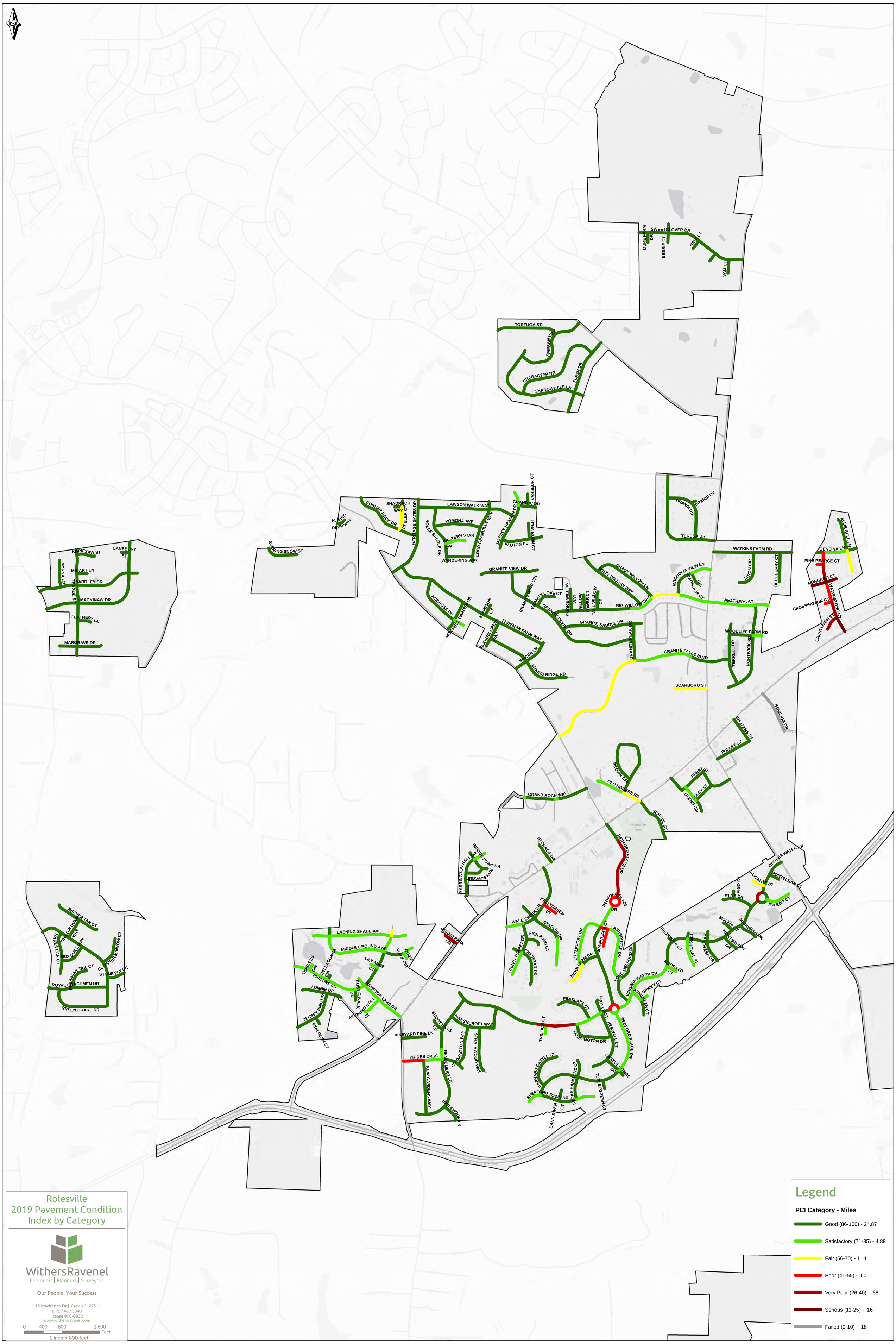
2019 PAVEMENT CONDITION INVENTORY MAP (PCI)

Rolesville
2019 Pavement Condition Index by Category



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0 400 800 1,600 Feet
1 inch = 800 feet

Path: K:\19\19-0510\190510.02-2019 Rolesville PCS\Geomatics\GIS\Rolesville PCI Map.mxd

Printed Date: 12/26/2019 Created By: JAR

2019 PAVEMENT CONDITION INVENTORY MAP (PCI) WITH DISTRESSES

Rolesville 2019 Pavement Condition Index by Category With Distresses

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0 400 800 1,600 Feet
1 inch = 800 feet

Legend

Distress Type

- Alligator Cracking (91)
- Bump Sags (12)
- Cracking (378)
- Patch (152)
- Raveling (2)
- Weathering (5)

PCI Category - Miles

- Good (86-100) - 24.87
- Satisfactory (71-85) - 4.89
- Fair (56-70) - 1.11
- Poor (41-55) - .60
- Very Poor (26-40) - .68
- Serious (11-25) - .16
- Failed (0-10) - .18

Pavement Condition Survey & 2020 Resurfacing Project

Town of Rolesville

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FIRM PROFESSIONALS

JOE TURNER, PE

Project Manager
Construction Administration
14 Years of Experience

JACOB SMITH

Staff Professional II
1 Year of Experience

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2

FIRM PROFESSIONALS

MICHAEL BLALOCK
Construction Administration
27 Years Experience

BRYAN HILL
Construction Administration
28 Years of Experience

DANIEL TERRY
Construction Administration
5 Years Experience

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3

3

PROJECT PURPOSE

- Understand Network Health (PCI)
  - Survey every 4-7 years
- Develop Management Program
  - Establish CIPs
  - In-house Maintenance
- Unbiased Perspective

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4

Pre-Survey

- **Kickoff Meeting with Client**
  - Modify Scope to match Client needs
  - Coordinate Public Works Operations
  - Discuss Pavement Rehab Options
  - Determine Trouble Spots
  - Road Classifications
  - Receive GIS Centerlines

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5

Survey

Windshield survey

- Driver → pavement expert; Passenger → data entry
- Survey vehicle maintains 5-10 mph speed

Equipment

- Tablet for data entry
- Measuring wheel
- Hard copy of Powell Bill map and list of streets

Safety

- PPE • Vehicle mounted signs • Strobe lights

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Survey

What Do We Look For?

- **ALLIGATOR CRACKING** (square feet, severity)
- **LONGITUDINAL/TRANSVERSE CRACKING** (length, severity)
- **PATCHING** (square feet, severity)
- **BLEEDING** (square feet, severity)
- **WEATHERING** (% of road section, severity)
- **RUTTING** (square feet, severity)
- **RAVELLING** (% of road section, severity)
- **BUMPS & SAGS** (length, severity)
- **RIDE QUALITY*** (overall section severity)

*DOES NOT IMPACT PCS RATING

...In addition,

- **CURB & GUTTER** (type, location)
- **STREET WIDTHS**
- **SURFACE TYPE** (hot mix, ASTs, dirt/stone)
- **SIDEWALK** (location)

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Pavement Cracking

Pavement Patching

Bumps / Sags

Weathering

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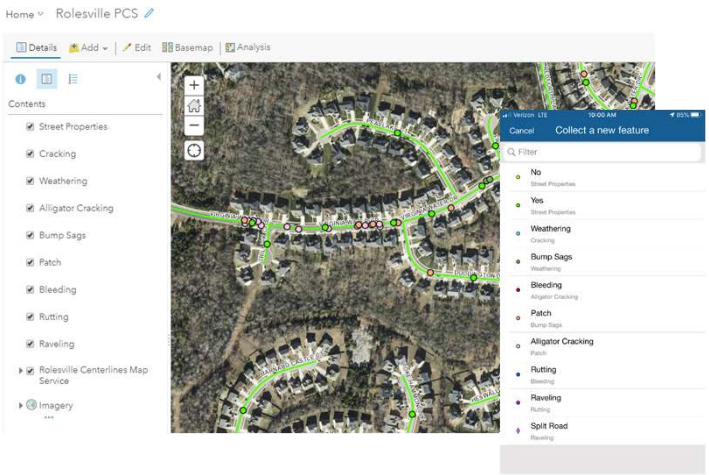
Survey COLLECTOR INTERFACE

Data Collection

- GPS Distresses Based on Type
- Distresses are Assigned to Street Segment
- Fields Captures Distress Specific Data



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Rolesville Results

- Surveyed approximately 32.5 miles of roadway
- Average PCI is 89.78
- Over 75% of roadway network falls into the Good category
- Over 95% of roadway network is over the critical PCI of 55

PCI Category - Miles

- Good (86-100) - 24.87
- Satisfactory (71-85) - 4.89
- Fair (56-70) - 1.11
- Poor (41-55) - .60
- Very Poor (26-40) - .68
- Serious (11-25) - .16
- Failed (0-10) - .18

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PAVER Analytics

Distress Files

+

Shapefiles of Network

→

Road Network with PCI

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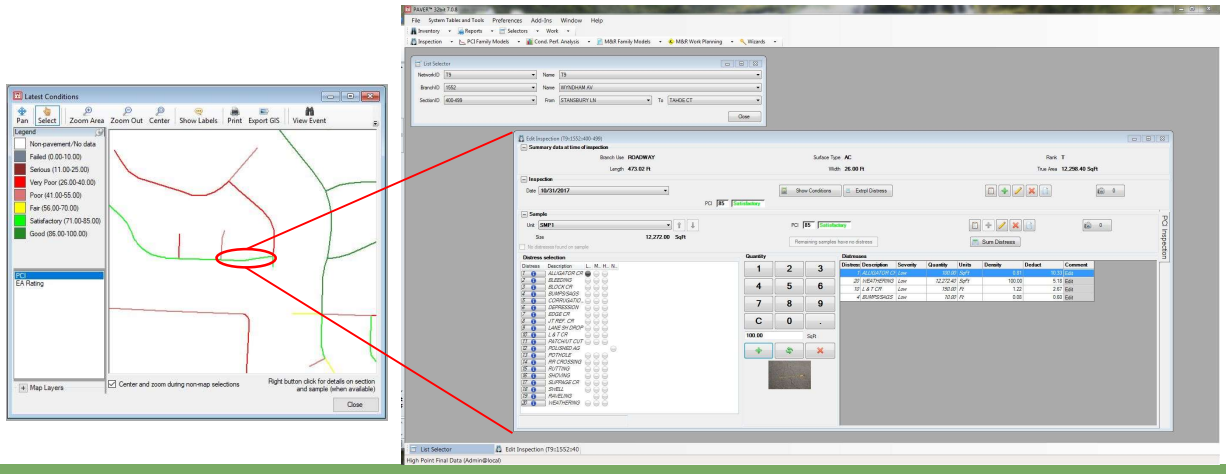
PAVER Analytics

PCI VALUES GENERATED



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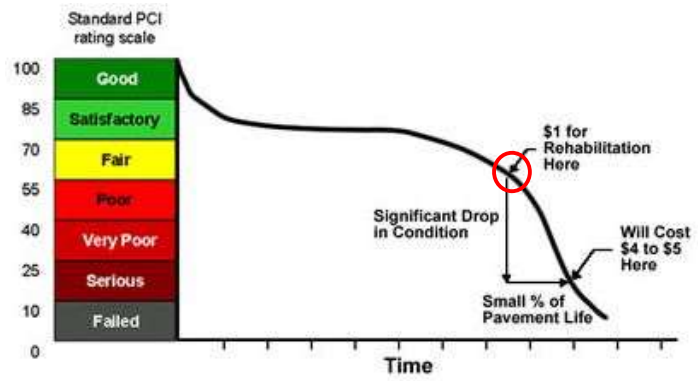
PAVER Analytics

MODELING: CRITICAL PCI



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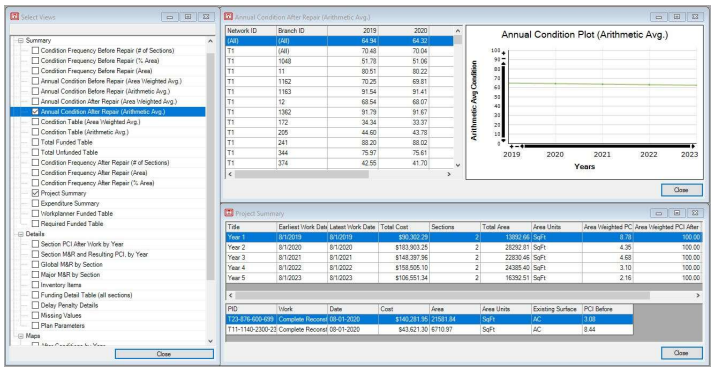
PAVER Analytics

MODELING: PRIORITIZATION & RESULTS

Critical PCI Modeling

1. Stop-Gap
2. Local Preventative
3. Global Preventative
4. Major Repairs



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Budget Scenarios

- 20 Year Plan
  - 60 PCI → $150k
  - 70 PCI → $380k
  - 80 PCI → $760k
- Items to note:
  - For PCI of 60, PAVER allots funding to preventative and ultimately stopgap repairs
  - For PCI of 80, additional funding is allotted to replace failing roads performing almost no stopgap repairs

20-year funding plan to maintain a PCI of 60 on all streets

Date	Stop Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$21,929.44	$58,217.46	$68,795.67	$0.00	$0.00	$148,942.57
2020	$28,462.42	$65,797.67	$54,567.99	$0.00	$0.00	$148,808.09
2021	$35,033.51	$46,797.43	$67,100.32	$0.00	$0.00	$148,931.27
2022	$42,598.03	$63,902.91	$42,423.58	$0.00	$0.00	$148,924.52
2023	$52,235.07	$96,767.55	$0.00	$0.00	$0.00	$149,002.63
2024	$64,416.18	$84,559.08	$0.00	$0.00	$0.00	$148,975.26
2025	$79,422.37	$69,574.88	$0.00	$0.00	$0.00	$148,997.24
2026	$96,965.36	$51,667.48	$0.00	$0.00	$0.00	$148,632.83
2027	$117,938.30	$31,040.37	$0.00	$0.00	$0.00	$148,978.68
2028	$139,668.25	$10,311.93	$0.00	$0.00	$0.00	$149,980.19
2029	$148,322.70	$0.00	$0.00			
2030	$148,650.77	$0.00	$0.00			
2031	$148,819.55	$0.00	$0.00			
2032	$148,990.62	$0.00	$0.00			
2033	$148,435.11	$0.00	$0.00			
2034	$149,002.93	$0.00	$0.00			
2035	$148,996.21	$0.00	$0.00			
2036	$149,004.05	$0.00	$0.00			
2037	$148,988.39	$0.00	$0.00			
2038	$149,000.07	$0.00	$0.00			

20-year funding plan to maintain a PCI of 70 on all streets

Date	Stop Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$21,783.85	$58,217.46	$283,536.74	$54,417.50	$0.00	$417,955.76
2020	$26,168.76	$32,064.42	$46,475.65	$311,876.48	$0.00	$416,587.31
2021	$12,485.27	$47,503.87	$13,060.11	$338,409.96	$0.00	$411,439.22
2022	$10,355.60	$67,855.01	$32,703.33	$288,356.33	$0.00	$399,270.27
2023	$4,590.47	$105,948.04	$22,065.68	$85,416.95	$0.00	$218,021.14
2024	$7,188.41	$153,246.67	$283,090.25	$0.00	$0.00	$423,485.34
2025	$10,837.38	$113,512.90	$121,065.55	$13,236.15	$0.00	$258,651.98
2026	$15,408.03	$142,552.29	$15,140.25			
2027	$26,886.40	$181,292.77	$37,912.13			
2028	$38,335.50	$221,754.46	$25,580.17			
2029	$57,816.93	$273,395.42	$92,287.43			
2030	$80,420.84	$250,141.61	$92,180.83			
2031	$101,629.56	$253,346.25	$68,553.48			
2032	$115,968.29	$307,542.37	$0.00			
2033	$128,501.98	$295,025.34	$0.00			
2034	$136,421.11	$287,164.13	$0.00			
2035	$144,020.74	$279,509.87	$0.00			
2036	$151,215.99	$272,367.08	$0.00			
2037	$162,864.59	$260,529.23	$0.00			
2038	$180,938.69	$242,591.79	$0.00			

20-year funding plan to maintain a PCI of 80 on all streets

Date	Stop Gap Funded	Preventive Funded	Global Funded	Major Under Critical Funded	Major Above Critical Funded	Total
2019	$0.00	$58,217.46	$283,536.74	$1,342,604.24	$0.00	$1,684,358.39
2020	$0.00	$32,064.42	$46,475.65	$0.00	$0.00	$78,540.07
2021	$0.00	$47,503.87	$13,060.11	$0.00	$0.00	$60,563.99
2022	$0.00	$67,855.01	$32,703.33	$0.00	$0.00	$100,558.34
2023	$0.00	$108,064.12	$22,065.68	$0.00	$0.00	$130,129.80
2024	$0.00	$157,087.15	$328,300.29	$11,764.22	$0.00	$497,151.66
2025	$0.00	$118,621.92	$53,878.01	$0.00	$0.00	$172,499.93
2026	$0.00	$149,133.58	$15,140.25	$44,814.95	$0.00	$209,088.78
2027	$0.00	$189,147.19	$37,912.13	$45,329.37	$0.00	$272,388.68
2028	$0.00	$231,575.06	$25,580.17	$36,463.82	$0.00	$293,619.05
2029	$0.00	$285,339.29	$377,886.75	$40,429.89	$0.00	$703,655.93
2030	$0.00	$225,029.05	$92,459.38	$19,666.54	$0.00	$336,154.98
2031	$0.00	$286,692.25	$17,551.76	$0.00	$0.00	$304,243.95
2032	$0.00	$347,217.64	$43,950.54	$61,918.24	$0.00	$453,086.42
2033	$0.00	$454,547.16	$29,654.43	$77,410.68	$0.00	$561,612.29
2034	$0.00	$562,149.75	$432,246.22	$57,539.69	$0.00	$1,051,935.67
2035	$0.00	$660,048.49	$72,407.54	$19,345.61	$0.00	$751,801.65
2036	$0.00	$1,281,981.29	$20,347.23	$0.00	$0.00	$1,302,328.52
2037	$0.00	$1,495,765.21	$50,060.73	$78,126.20	$0.00	$1,623,952.13
2038	$1,926.65	$2,203,015.01	$34,377.61	$1,078,856.96	$0.00	$3,318,176.23

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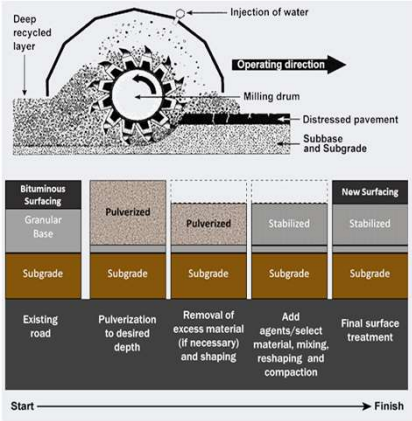
2020 Resurfacing Project

- Town Identified Areas
  - Granite Saddle Drive/Granite Creek Drive (Good)
  - Bowling Drive (Failed)
  - Town Hall Parking Lot (Not Surveyed)
  - Waterstone Lane (Serious) & Adjoining Streets (Very Poor)
- GeoTechnologies provided Subsurface Investigation and Repair recommendations
  - Full Depth Reclamation vs Full Depth Reconstruction



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Received Bids Discussion

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Questions?

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Memorandum

To: Mayor & Town Board
From: JG Ferguson, Parks & Recreation Director
Date: 2/12/2020
Re: Town Hall Renovations Agenda Item #4

Background

On Monday, January 27 2020, staff posted the bid for Town Hall Renovations. On Tuesday, February 4th staff hosted a pre-bid meeting with 14 contractors/vendors in attendance. Bids will be opened at 2 pm on Wednesday, February 19th. Town Board has approved $125,000 for the renovations.

Town Board has also approved $50,000 for repairs to the rear parking lot. Those bids will be opened on Tuesday, February 18th at 2 pm. In addition, the roof of the building has had some leaks over time. Temporary patches are no longer effective and the roof will need to be assessed again for permanent repair in the near future. Staff is looking into options to prolong the life of the roof.

Board Options

None.

Relationship to Current Budget/Goals

None.

Recommended Action

None.

Attachments:

Memorandum

To: Mayor and Town Board
From: Amy Stevens, Finance Director
Date: February 13, 2020
Re: City of Raleigh Utility Customer Assistance Program, Agenda Item #5

Background

In May 2018, the Town Board approved Rolesville's participation in the City of Raleigh's Utility Customer Assistance Program (UCAP). This program was designed to assist economically distressed utility customers with their monthly water and sewer bills.

Funds for this program were included in the FY18-19 budget, and the Town paid $2,400 to the City of Raleigh to hold in reserve for the needs of utility customers located within the Rolesville corporate limits.

Update

As of the end of January 2020, there has been no use of the Rolesville UCAP funds. City of Raleigh Public Utilities staff report that, compared to other communities served by the COR system, Rolesville has the lowest percentage of service disconnection for non-payment.

Board Options

The Town Board may continue to leave the funds available in the UCAP program and re-evaluate the program again at a later date or request to have the money refunded so that it can be applied to other community needs.

Recommended Action

Given the lack of usage to date, staff recommend requesting a refund from the City of Raleigh.

Attachment

- Inter-local Agreement for the Utility Customer Assistance Program, which was approved in July 2018

AGREEMENT FOR
UTILITY CUSTOMER ASSISTANCE PROGRAM

This AGREEMENT FOR UTILITY CUSTOMER ASSISTANCE PROGRAM (hereinafter Agreement) is entered into as of this 17 day of July, 2018, is between the City of Raleigh (the "City") and Town of Rolesville (the "Town"), each of the above being municipal corporations and public bodies politic of the State of North Carolina.

RECITALS:

WHEREAS, the City of Raleigh Public Utilities Department provides water and sewer services to the citizens of Raleigh, Knightdale, Wendell, Rolesville, Garner, Zebulon and Wake Forest, which represent a combined population served of over 530,000 Wake County residents,

WHEREAS, it is widely recognized that water and sewer services are critical and fundamental requirements for the general welfare of a community; but there are no existing local government programs to assist economically distressed utility customers with their monthly water and sewer bills,

WHEREAS, the City and the Town have dedicated funds ($200,000 and $2,400 respectively) to fund a Utility Customer Assistance Program (UCAP), which will assist customers who have an identified need with paying their water and sewer bill,

WHEREAS, the City's utility service area incorporates multiple municipal jurisdictions and the County currently administers several social assistance programs for Wake County residents in these areas,

WHEREAS, the Town desires to provide funding to the City to administer and implement the UCAP to Town residents;

NOW THEREFORE, pursuant to Chapter 160A, Article 3 of the North Carolina General Statutes, and in consideration of the mutual goals and promises contained herein and the mutual benefits to result there from, that parties agree to support the UCAP as follows:

I. Implementation of the UCAP

1. The Town will provide the annual funding amount of $2,400 to the City via electronic transfer or check to fund the UCAP for utility customers in the Rolesville Service area.

2. The Town's funds will be transferred to the City no later than September 1st of 2018 and thereafter no later than August 1st of each year in the designated amount which the Town intends to provide its citizens. The City will acknowledge receipt of the

funding through an email to the Town finance director. Additional funding may be provided by the Town during the year if funds are depleted.

3. Once the Town's UCAP funds have been depleted the City will notify the Town via email that the funds have been depleted.

4. The Town or the City may provide additional funding for the respective UCAP accounts throughout the fiscal year if original funds are depleted.

5. The City will only utilize Town UCAP funds to assist customers in the Town's jurisdiction. The City will only utilize City UCAP funds to assist customers in the City's jurisdiction.

6. The City will provide quarterly reports to the Town regarding the utilization of the funding. Quarterly reports shall include the funding utilized to date, the remaining balance of funds, and a list of customers who have received assistance.

7. Customers desiring to apply for UCAP funds will do so through the Wake County Human Services Department, who is responsible for determining a customer's eligibility for UCAP funds. Criteria for eligibility in the UCAP is as follows:

    a. Meet income eligibility requirements*
    b. Have reserves at or below $2,250
    c. COR Utility account will be past due, in jeopardy of disconnection or currently disconnected for non-payment
    d. Be responsible for its COR Utility Bill

    *Income eligibility is 130% of the current poverty level (example: One person in HH = $1,307 max monthly income/ Two people in HH = $1,759 max monthly income / Three people in HH = $2,212 max monthly income)

8. If a City or Town customer is determined eligible for the UCAP, City Utility staff will credit the customer account. Once the payment has been applied, City Utility staff will confirm, in writing, with the Customer that the transaction has been completed.

9. Each UCAP transaction shall be one time per fiscal year, per Customer with a value up to $240, to be credited to the Customer's account. Funds may or may not be sufficient to meet Customer needs and the Customer will be responsible for resolving any outstanding balance to continue service.

10. An annual summary report for the UCAP will be provided by City Utility staff to Town staff. In addition to the information provided in the quarterly reports referenced in paragraph 6 above, the annual report will include the number of applicants from all communities served by the UCAP Program.

11. The Town may, at its sole discretion, may choose to discontinue its participation in the UCAP program at the end of the fiscal year.

II. General Terms and Conditions

1. **Term; termination**. The term of this Agreement shall run from the date of execution of this Agreement by Parties hereto through June 30, 2020. The Parties shall have the right to terminate their participation in this agreement with or without cause upon giving fourteen (14) days electronic and written notice to the party delivered to the following address:

   Town of Rolesville: Kelly Arnold, Town Manager
   502 Southtown Circle
   P.O. Box 250
   Rolesville, NC 27571

   City of Raleigh Public Utilities Director
   One Exchange Plaza, 6th Floor
   P.O. Box 590
   Raleigh, NC 27602

   The roles and responsibilities of the withdrawing party shall terminate within 14 days after notice is given by the withdrawing party in accordance with this agreement unless otherwise agreed by in writing by both Parties; except the termination shall not relieve responsibility for payment of the Parties' commitments to the termination date. Any remaining balance in the Town's UCAP fund account after the date of termination will be refunded to the Town within thirty (30) days of the date of termination.

2. **Amendment**. Any amendment to this agreement to be effective must be in writing, signed by the Manager or other authorized representative of the Parties, and executed with the same formality and approvals as the foregoing agreement.

3. **Assignment**. No party shall assign any portion of this agreement or the rights and responsibilities hereunder to another person or entity who is not party to this agreement without prior written consent of the Parties.

4. **Governing Law; Venue**. This Agreement and the rights and obligations of the Parties hereto shall be interpreted, construed and enforced in accordance with the laws of the State of North Carolina and shall be enforced only in its General Court of Justice to the extent that any such actions will lie therein. The venue for any such action relating to this Agreement shall be Wake County Civil Superior Court.

5. **Entire Agreement**. The terms and provisions herein contained constitute the entire agreement by and between the Parties hereto and shall supersede all previous communications, representations or agreements, either oral or written between the Parties hereto with respect to the subject matter hereof.

6. **Severability**. If any provision of this Agreement shall be determined to be unenforceable by a court of competent jurisdiction, such determination will not affect any other provision of this Agreement.

7. **Counterparts**. This Agreement may be executed in several counterparts, each of which shall be deemed an original.

8. **Non-Discrimination Assurances**. In consideration of the signing of this Agreement, the Parties hereto for themselves, their agents, officials, employees and servants agree not to discriminate in any manner on the basis of race, color, creed, national origin, sex, age, handicap, or sexual orientation with reference to the subject matter of this Agreement, no matter how remote. The Parties further agree in all respects to conform to the provisions and intent of City of Raleigh Ordinance 1969-889, as amended. This provision is hereby incorporated into this Agreement for the benefit of the Organizer and its residents, and may be enforced by action for specific performance, injunctive relief, or other remedy as by law provided. This Agreement shall be binding on the successors and assigns of the parties with reference to the subject matter of this Agreement.

IN WITNESS WHEREOF the parties' mutual understandings, the City and the Town and have executed this Agreement under the signatures of their designated Managers, respectively, with proper authorization of their respective governing bodies, as of the date set fourth above.

Town of Rolesville

By: _____
Kelly Arnold, Town Manager

Attest:

By: _____
Robin E. Peyton Town Clerk

TOWN OF ROLESVILLE INCORPORATED 1941 NORTH CAROLINA

The City of Raleigh

By: _____
City Manager

Attest:

By: _____
Gail G. Smith, City Clerk-Treasurer

CITY OF RALEIGH NORTH CAROLINA

Approved as to Form:

City Attorney

Town Attorney

RALEIGH 528199.2

Memo

To: Mayor Currin and Town Board

From: Kelly Arnold, Town Manager

Date: February 18, 2020

Re: Review of Rolesville Code Section 130.04(9) regarding Noise related to Construction and Blasting

---

Late Spring, 2019 the Town Board reviewed Rolesville Code Section 130.04(9) which addresses the hours of day when construction noise related to building and blasting could take place within Rolesville Town limits. Based upon this review, the Town Board amended the Code with the understanding it would be monitored. At the end of this memo is a redlined version of the ordinance and the amendmens. The new ordinance is similar to most surrounding communities.

After approval, notification was sent to all developers and homebuilders regarding the change. In addition, language was added to each building permit that reflected the change in hours. A copy of a recently issues building permit is attached to this memo.

To date, there are three known complaints regarding contractors starting and making noise before approved hours. The Town Manager addressed the first one when a sidewalk construction crew started work prior to 8:00 am on a Saturday morning in September.

The second one was a January weekday and came from the neighborhood adjacent to the townhomes under construction close to Granite Falls Boulevard. The developer was informed of the complaint and the townhome builder has complied.

The third one was a weekday and came from complaints by homeowners in Carlton Pointe about early start of the earth moving company working at the future townhomes site. Town staff upon learning of the violation warned the contractor and the neighbors were asked to call Police for future problems.

If the Town Board wants to consider further amendments, the Town Attorney will develop an ordinance for a future Town Board meeting.

(9) The erection (including excavating*, except for activities described in paragraph (9a) below*), demolition, alteration, or repair of any building ~~in a residential or business district~~ other than between the ~~hours of 7:00 a.m. and 6:00 p.m. on weekdays,~~ *following hours:*

(i) 7:00 a.m. and 7:00 p.m. - Monday through, and including Friday, and

(ii) 10:00 a.m. and 6:00 p.m. – Saturday,

(9a) The blasting, hammering, drilling or similar destruction of rock other than between the following hours:

(i) *9:00 a.m. and 6:00 p.m. - Monday through, and including Friday, and*

(ii) 10:00 a.m. and 6:00 p.m. – Saturday;

~~except in the case of urgent necessity in the interest of public safety and then only with a permit from the Building Inspector, which permit may be renewed for a period of 3 days or less while the emergency continues;~~

Town of Rolesville
Planning Department
502 Southtown Circle
Rolesville, NC 27571
919-554-6517
www.RolesvilleNC.gov

RESIDENTIAL BUILDING PERMIT

P&I - Residential Building / Single Family Dwelling

PIN: 1749838817 **Permit #** RBPR-031569-2020

Project Site: 617 PELZER DR WAKE FOREST,

Description: Lot 204 Stonewater. 2 STORY SFD, 4 BEDROOMS, 4 BATHS, 2-GARAGES, FRONT & REAR PORCH, 2-PREFAB FP, FROG, 3263 SQFT HEATED, 809 SQFT GARAGE.

Finished Sq Ft: 4,072 **Project Cost:** $469,000.00 **Issued Date:** 02/05/2020

Number of Stories: 2 **Number Finished Bdrms:** 4.00 **Number of Unfin. Bdrms:** 0.00

Basement: No **Garage:** Yes **Sunroom:**

Porches: Front, Rear

Decks: No

Fireplaces Masonry: 0 Prefab Solid Fuel: 0 Prefab Gas: 2

Water Supply Source: Municipal **Provider:** Raleigh

Wastewater Disposal Type: Municipal **Provider:** Raleigh

Total Impervious Surface Permitted: **As Build Required:**

CONTRACTOR TYPE	NAME	LIC#
Building Contractor	Braswell Custom Homes Inc	UR-24191
Electrical Contractor	Gary L Price	L 24264
Mechanical Contractor	Bert M Lopez	14651-H3,2
Plumbing Contractor	White's Plumbing LLC	30233-P1

THE APPLICANT AGREES TO COMPLY WITH ALL BUILDING REGULATIONS AND OTHER LAWS APPLICABLE TO THE USE OF THE STRUCTURE AND FACILITIES REFERRED TO HEREIN. THE PERMIT ISSUED FOR WORK SHALL EXPIRE BY LIMITATION SIX MONTHS AFTER THE DATE OF ISSUANCE IF THE WORK AUTHORIZED HAS NOT BEEN COMMENCED. IF AFTER COMMENCEMENT THE WORK IS DISCONTINUED FOR A PERIOD OF 12 MONTHS, THE PERMIT THEREFORE SHALL IMMEDIATELY EXPIRE. NO WORK AUTHOURIZED BY ANY PERMIT THAT HAS EXPIRED SHALL THEREFORE BE PERFORMED UNTIL A NEW PERMIT HAS BEEN SECURED.

Rolesville Town Code Section 130.04 Item B9 restricts construction activity to weekdays (Monday through Friday) between 7 a.m. and 7 p.m. and Saturday between 8 a.m. and 6 p.m. Report violations to the Police Department at 919-556-7226.

FUTURE TOWN BOARD MEETINGS

March 3, 2020	Town Board Regular Meeting – 7:00 pm
March 17, 2020	Town Board Work Session – 7:00 pm
April 7, 2020	Town Board Regular Meeting – 7:00 pm
April 21, 2020	Town Board Work Session – 7:00 pm

Town of Rolesville
Board of Commissioners
Regular Meeting

February 18, 2020

FOR YOUR INFORMATION (FYI) SECTION

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TOWN OF ROLESVILLE | FINANCIAL SUMMARY REPORT | MONTH ENDING January 2020 (58%)

GENERAL FUND

Revenues	FY18-19 Actual	FY19-20 Budget	FY19-20 YTD	YTD %
Ad Valorem Taxes	$4,653,482	$4,750,000	$4,810,596	101%
Motor Vehicle Tax	64,570	136,800	58,400	43%
Local Option Sales Tax	1,412,914	1,401,240	910,839	65%
Solid Waste Fees	739,529	679,000	752,320	111%
Franchise Tax	447,087	430,000	223,135	52%
Powell Bill	174,110	175,000	179,950	103%
Fund Balance Approp		769,926		0%
All Other Revenues	705,420	784,715	397,766	51%
Total	**$8,197,113**	**$9,126,681**	**$7,333,007**	**80%**
Expenditures				
Elected Officials	$68,661	$86,430	$50,094	58%
Administration	641,429	597,855	324,141	54%
Finance	339,246	507,490	274,778	54%
Comm & Econ Dev		144,520	67,543	47%
Planning	305,490	535,920	175,061	33%
Police	2,202,951	2,578,265	1,534,808	60%
SW Contracts	542,517	624,000	352,449	56%
Public Works	734,608	995,621	488,453	49%
Recreation	684,085	1,091,780	389,032	36%
RRFD Transfer	977,231	997,500	843,989	85%
Special Appropriations	858,280	967,300	179,602	19%
Total	**$7,354,499**	**$9,126,681**	**$4,679,949**	**51%**
YTD Fund Balance Inc/Dec	$842,614		$2,653,058	

UTILITY RESERVE FUND

Revenues	FY18-19 Actual	FY19-20 Budget	FY19-20 YTD	YTD %
Interest	38,480		18,840	
Total	**$38,480**	**$0**	**$18,840**	
Expenditures				
Retain in Capital Reserve				
Total	**$0**	**$0**	**$0**	
YTD Fund Balance Inc/Dec	$38,480		$18,840	

CAPITAL PROJECT FUND

Revenues	FY18-19 Actual	FY19-20 Budget	FY19-20 YTD	YTD %
Street Fees	$409,235	$608,000	$321,600	53%
Streets Payment in Lieu	50,000		476,469	
Park Fees	403,200	608,000	321,600	53%
Park Payments in Lieu	530			
Intergovernmental		610,000		0%
Donations/Reimbursement	19,123		89,106	
Loan Proceeds				
Fund Balance Approp		1,046,929		0%
Interest	77,881		30,615	
Transfer In	570,000	350,000		0%
Total	**$1,529,969**	**$3,222,929**	**$1,239,391**	**38%**
Expenditures				
General	$107,025	$442,975	$75,450	17%
Streets	$1,582,359	$1,446,712	$795,350	55%
Park	283,167	787,242	283,494	36%
Retain in Capital Reserve		546,000		0%
Total	**$1,972,551**	**$3,222,929**	**$1,154,294**	**36%**
YTD Fund Balance Inc/Dec	($442,582)		$85,097	

CASH AND INVESTMENTS

General Fund	$8,892,218
Utility Reserve Fund	1,791,432
Capital Project Fund	2,982,653
	$13,666,303
BB&T Checking	$416,644
NCCMT Investment	13,209,199
SunTrust Mmkt	40,460
	$13,666,303

RESTRICTED FUND BALANCE

	FY18-19 Actual	FY19-20 YTD Estimate
Water Fees	$900,104	$909,524
Sewer Fees	$872,488	$881,908
Street Fees	$686,178	$298,018
Street PIL	$474,000	$457,719
Park Fees	$1,531,247	$1,444,073
Park PIL	$103,157	$103,157
Powell Bill	$645,590	$660,540
Future Capital	$205,000	$533,000

ADMINISTRATIVE TRANSFERS						
Date	**From**		**To**		**Amount**	**Explanation**
8/19/19	*11-490-37*	*Contracted Services*	*11-490-02*	*Temporary*	*$2,500*	*administrative assistant staff*
1/29/20	*11-430-37*	*Contracted Services*	*11-420-19*	*Liability Insurance*	*$5,000*	*funding for deductible*
2/12/20	*11-510-82*	*Vehicles*	*11-510-30*	*Maint & Repair - Bldgs*	*$5,000*	*move IT closet to expand evidence*

BOARD TRANSFERS						
Date	**From**		**To**		**Amount**	**Explanation**

BOARD AMENDMENTS						
Date	**Revenue**		**Expenditure**		**Amount**	**Explanation**
7/16/19	*11-390-01*	*General Fund Approp*	*11-420-37*	*Contracted Services*	*$4,000*	*rollover - recodification*
7/16/19	*11-390-01*	*General Fund Approp*	*11-430-37*	*Contracted Services*	*$10,000*	*rollover - eNotice services*
7/16/19	*11-390-01*	*General Fund Approp*	*11-600-52*	*Stormwater Expense*	*$18,000*	*rollover - Terrell Pl stormwater*
7/16/19	*11-390-01*	*General Fund Approp*	*11-600-73*	*Construction & Improv*	*$17,026*	*rollover - wayfinding*
7/16/19	*51-315-15*	*Intergovernmental Rev*	*51-620-04*	*Greenway Construction*	*$360,000*	*rollover - Granite Falls greenway*
7/16/19	*51-390-12*	*Park Fees Fd Bal Approp*	*51-620-04*	*Greenway Construction*	*$44,242*	*rollover - Granite Falls greenway*
7/16/19	*51-390-10*	*Unrestr Fd Bal Approp*	*51-400-04*	*Main Street Vision Plan*	*$92,975*	*rollover - Main St Vision design*
7/16/19	*51-390-01*	*Street Fees Fd Bal Appro*	*51-400-07*	*Burlington Mills Realign*	*$158,300*	*rollover - Burl Mills realignment*
7/16/19	*51-315-35*	*Intergovernmental Rev*	*51-620-02*	*Community School Park*	*$469,500*	*deletion Comm School lighting*
10/1/19	*11-390-01*	*General Fund Approp*	*11-700-97*	*Transfer to Cap Proj Fd*	*$125,000*	*Town Hall renovations*
10/1/19	*51-390-50*	*Transfer fr General Fd*	*51-400-05*	*Town Hall Renovations*	*$125,000*	*Town Hall renovations*
11/4/19	*11-390-01*	*General Fund Approp*	*11-600-73*	*Construction & Improv*	*$19,900*	*water tank add Town logo*
11/4/19	*11-390-01*	*General Fund Approp*	*11-430-24*	*Computer Services & Sof*	*$46,000*	*IT support services outsourcing*
11/4/19	*51-390-02*	*Park Fees Fd Bal Approp*	*51-620-07*	*Athletic Complex*	*$23,000*	*Farm archeo survey, operational review*
1/7/20	*11-390-01*	*General Fund Approp*	*11-490-xx*	*Salaries & Benefits*	*$43,000*	*Planning positions*
1/7/20	*11-390-01*	*General Fund Approp*	*11-490-51*	*Departmental Projects*	*$80,000*	*UDO rewrite*
1/7/20	*11-310-23*	*Grants*	*11-620-83*	*Construction & Improv*	*$82,000*	*CSP agreement with Wake County*

Memorandum

To: Mayor & Town Board

CC: Kelly Arnold, Town Manager

From: JG Ferguson, Parks & Recreation Director

Date: 2/12/2020

Re: Parks & Recreation FYI

Below are the participant numbers for Parks & Recreation programs for the month of January along with upcoming programs and special events.

Recent Events:

- **A Queen and her Prince, Mother and Son dance**
  - 71 registered (65 attended)

Upcoming Special Events:

- **Litter Sweep**
  - Saturday, March 28th
- **EGG Rush**
  - Saturday, April 4th Rolesville Middle School, 10 am – 11 am
- **Music at Mill Bridge**
  - Saturday, April 4th 5:30 to 7 PM – The Will McBride Group

Spring Athletic Registration (as of 2/10/20)**:**

Sport	Number of Teams	Number of Participants	Residents	%	Non Residents	%
Baseball	36	363	154	42%	209	58%
Softball	7	80	41	51%	39	49%
Soccer	33	311	188	60%	123	40%
Total	**76**	**754**	**383**	**51%**	**371**	**49%**

JANUARY PROGRAMS/NUMBERS:

• Monet Dance Performing Arts Studio – Session 1: Hip Hop Tots	3
• Monet Dance Performing Arts Studio – Session 1: "Bring It" Majorette Dance Girl	3
• Monet Dance Performing Arts Studio – Session 13: Hip Hop Explosion Tots	2
• Monet Dance Performing Arts Studio – Session 1: Performing Dance 4 Tots	8
• Monet Dance Performing Arts Studio – Session 1: Performing Creative Combo	7
• Monet Dance Performing Arts Studio – Session 1: Move it MOVE IT! Line Dance	2
• Gentle Yoga	4
• Chair Yoga	2
• Senior BINGO	9
• Free Zumbini Demo	12
JANUARY TOTAL NUMBERS	**52**

FEBRUARY PROGRAMS:

- Monet Dance Performing Arts Studio – Session 2: Performing Dance 4 Tots
- Monet Dance Performing Arts Studio – Session 2: Performance Creative Combo
- Monet Dance Performing Arts Studio – Session 2: Dance 4 Tots
- Monet Dance Performing Arts Studio – Session 2: Hip Hop Tots
- Monet Dance Performing Arts Studio – Session 2: "Bring it" Majorette Dance Girl
- Gentle Yoga
- Chair Yoga
- Senior BINGO
- Drawing FUNdamentals – You Pick!
- Adult Combo Acrylic Painting and Drawing Class!
- Free Stained Glass Demo
- Soulful heART Journaling Activity
- Twiney Valentine Dance

UPCOMING PROGRAMS IN MARCH:

- Paint Projects with Acrylics – All Levels
- Beginner Stained Glass Class
- Abstract Expressionism Painting Activity
- Zumba Fitness
- Gentle Yoga
- Chair Yoga
- Zumbini
- Senior BINGO
- March Winds Dance-A-Thon
- Monet Dance Performing Arts Studio – Session 3: Dance 4 Tots
- Monet Dance Performing Arts Studio – Session 9: Dance 4 Tots
- Monet Dance Performing Arts Studio – Session 15: Dance 4 Tots
- Monet Dance Performing Arts Studio – Session 3: Performing Dance 4 Tots
- Monet Dance Performing Arts Studio – Session 3: Hip Hop Explosion Tots
- Monet Dance Performing Arts Studio – Session 9: Hip Hop Explosion Tots
- Monet Dance Performing Arts Studio – Session 15: Hip Hop Explosion Tots
- Monet Dance Performing Arts Studio – Session 3: Creative Combo
- Monet Dance Performing Arts Studio – Session 3: Performance Creative Combo
- Monet Dance Performing Arts Studio – Session 3: "Bring It' Majorette Dance Girl

- Monet Dance Performing Arts Studio – Session 3: Hip Hop Explosion Juniors
- Monet Dance Performing Arts Studio – Session 9: Hip Hop Explosion Juniors
- Monet Dance Performing Arts Studio – Session 3: Move It, MOVE IT! Line Dance

In the first two weeks of open registration, Summer Camp has had 89 participants register with only 216 spaces available for the 9-week camp.

Memorandum

To: Mayor and Commissioners
From: J.G. Ferguson/Robin Peyton
Date: February 13, 2020
Re: FYI – Military Banner Program Update

Following the December 15, 2019 deadline, 14 Military Banner applications were received. Applicants submitted photos and staff is creating mock banners for applicant approval, prior to payment. A credit card payment option has been established in addition to payment by cash/check and applicants will be instructed how to make payment upon the town's receipt of each approval sheet. Town staff has been in contact with the vendor who will be printing the banners and everything is on track to be completed on schedule.

Monthly Report

JANUARY 2020

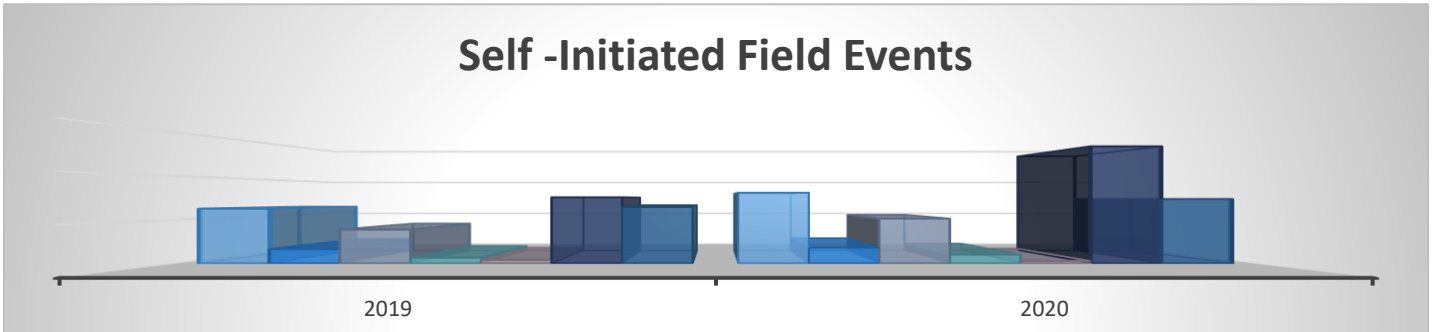
Rolesville Police Department
Orlando Soto, Chief of Police

Orlando Soto
Chief of Police
919-556-7226

"The mission of the Rolesville Police Department is to enhance the quality of life by protecting and serving our community through a partnership with our citizens and businesses to create a community that is safe to live, work and play."

Rolesville Police Department Monthly Report

The Rolesville Police Department had **1,463** events for the month of **January 2020** that resulted in the following:



	2019	2020
Traffic Stops	251	324
Citations	66	72
Verbal Warnings	155	205
Written Warnings	27	41
Arrests, including Criminal Citations	17	12
Security Checks	303	536
Foot Patrols	259	295

ROLESVILLE POLICE DEPARTMENT

REPORTED UCR OFFENSES FOR THE MONTH OF JANUARY 2020

PART I CRIMES	January 2019	January 2020	+/-	Percent Changed	Year-To-Date 2019	Year-To-Date 2020	+/-	Percent Changed
MURDER	0	0	0	N.C.	0	0	0	N.C.
RAPE	0	0	0	N.C.	0	0	0	N.C.
ROBBERY	0	0	0	N.C.	0	0	0	N.C.
Commercial	0	0	0	N.C.	0	0	0	N.C.
Individual	0	0	0	N.C.	0	0	0	N.C.
ASSAULT	0	2	2	N.C.	0	2	2	N.C.
* VIOLENT *	0	2	2	N.C.	0	2	2	N.C.
BURGLARY	3	0	-3	-100%	3	0	-3	-100%
Residential	1	0	-1	-100%	1	0	-1	-100%
Non-Resident.	2	0	-2	-100%	2	0	-2	-100%
LARCENY	3	1	-2	-67%	3	1	-2	-67%
AUTO THEFT	0	0	0	N.C.	0	0	0	N.C.
ARSON	0	0	0	N.C.	0	0	0	N.C.
* PROPERTY *	6	1	-5	-83%	6	1	-5	-83%
PART I TOTAL:	6	3	-3	-50%	6	3	-3	-50%
PART II CRIMES								
Drug	4	3	-1	-25%	4	3	-1	-25%
Assault Simple	8	2	-6	-75%	8	2	-6	-75%
Forgery/Counterfeit	0	0	0	N.C.	0	0	0	N.C.
Fraud	1	2	1	100%	1	2	1	100%
Embezzlement	0	0	0	N.C.	0	0	0	N.C.
Stolen Property	0	0	0	N.C.	0	0	0	N.C.
Vandalism	3	1	-2	-67%	3	1	-2	-67%
Weapons	0	0	0	N.C.	0	0	0	N.C.
Prostitution	0	0	0	N.C.	0	0	0	N.C.
All Other Sex Offens	0	0	0	N.C.	0	0	0	N.C.
Gambling	0	0	0	N.C.	0	0	0	N.C.
Offn Agnst Faml/Chld	0	0	0	N.C.	0	0	0	N.C.
D. W. I.	0	0	0	N.C.	0	0	0	N.C.
Liquor Law Violation	0	0	0	N.C.	0	0	0	N.C.
Disorderly Conduct	0	0	0	N.C.	0	0	0	N.C.
Obscenity	0	0	0	N.C.	0	0	0	N.C.
Kidnap	0	1	1	N.C.	0	1	1	N.C.
Human Trafficking	0	0	0	N.C.	0	0	0	N.C.
All Other Offenses	1	4	3	300%	1	4	3	300%
PART II TOTAL:	17	13	-4	-24%	17	13	-4	-24%
GRAND TOTAL:	23	16	-7	-30%	23	16	-7	-30%

N.C. = Not Calculable

North Carolina League of Municipalities Law Enforcement Risk Review

The Rolesville Police Department received recognition for successfully completing the North Carolina League of Municipalities Risk Review process. This process examined our high-risk policies and procedures to ensure that they mirrored current best practices in law enforcement. We could not have done this without the dedication of our staff, who strive to continue to make Rolesville a safe place to live, work, and play!

Camp K.I.D.D.S. is a free weeklong summer camp for up to 50 students, ages 10-12 years old. This camp offers athletic activities and enrichment classes on peer pressure, anti-bullying, and alcohol & drug prevention. The program provides an important opportunity for police officers to interact with local youth in a positive and encouraging environment. The activities at Camp K.I.D.D.S. expose students to everyday situations that allow them to practice making the right choices in difficult circumstances.

Registration starts March 2 and ends May 15. Campers may only attend one week and each week is limited to the first 50 participants. Please direct all questions concerning this camp to the Rolesville Police Department at 919-556-7226.

Internal Operations Highlights

- January 7, 2020 – Received The North Carolina League of Municipalities Award for Successfully Completing The Law Enforcement Risk Review
- January 8, 2020 - Attended Department Head Meeting and Rolesville Charter Academy Meeting
- January 9, 2020 - Attended Performance Evaluation Meeting and ABC Grant Onsite Visit concerning CAMP KIDDS
- January 10, 2020 - Attended Training for Social Media and Employee Discipline
- January 13, 2020 – Attended Preliminary Budget Meeting
- January 14, 2020 - Attended Strategic Planning Staff Engagement Meeting
- January 15, 2020 - Attended Department Head Meeting
- January 22, 2020 - Attended Department Head Meeting and ABC Grant Presentation
- January 24, 2020 – Attended Reserve Program Meeting
- January 29, 2020 - Attended Department Head Meeting and Meeting with TSM South
- January 30, 2020 – Attended Meeting on Network Assessment and Capital Ford

Rolesville

Genuine Community • Capital Connection

Est. 1837

January 2020
Development Activity Status Report

Developments

The tables below list Rolesville's commercial and residential developments currently under construction, in review, and/or approved.

Under Construction

Table 1

Project	Description	Status
Barrington Townhomes Phase 2	32 townhomes	Final site plans reviewed Final plat approved 11/19/19 Building Permits pending
Carlton Pointe Phase 3B	2 single-family lots	Final plat approved
Elizabeth Springs (Heights) Tract A	89 single-family lots	Tract A construction plans approved
Granite Falls Phase 6	2 single-family lots	Final plat approved
Granite Ridge Townhomes Phase 5	10 townhomes	Phase 5 construction plans approved
Perry Farms Phase 1	74 single-family lots	Phase 1 recorded Phases 2 and 3 construction plans approved
Stonewater Phase 5	3 single-family lots	Final plat pending
Townes at Carlton Pointe	37 Townhouse lots	Site Plan approved, under construction

In Review and/or Approved

Table 2

Project	Description and Case Numbers	Status
101 and 115 Redford Place Dr.	3-story retail space and medical offices MA 19-04 (R-1 to CO-CZ) SP 19-03 1.62 acres	Map Amendment (Rezoning) approved 9/3/19 Site Plan approved 11/4/19
515 S Main St.	Single Family Home MA 19-05 (R-1 to CO-CZ)	Map Amendment (Rezoning) approved 10/1/19
A-Master Team Townhomes	Vacant Land on Rogers Road MA 19-03 (R&PUD to CO-SUD) SUP 19-02 7.44 acres; 47 townhomes	Planning Board meeting complete 11/25/19 MA 19-03 approved 01/07/2020 SUP 19-02 pending

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Townes at Carlton Pointe	Vacant Land adjacent to ABC Store MA 18-05 (OP-SUD to R&PUD) SP 19-02 5.8 acres; 53 townhomes	Map Amendment (Rezoning) approved 4/16/19 Site Plan approved 10/1/19
Chandlers Ridge	Proposed Subdivision off Averette Road MA 18-01 171.53 acres; 90 single-family lots	Map Amendment (Rezoning) approved 6/4/19 Development agreement pending
Elizabeth Springs (Elizabeth Heights)	Planned Unit Development off Averette Road SUP 19-03 for phasing of road improvements SP 19-01 82.4 acres 89 single-family lots; 98 townhomes	Special Use Permit approved 11/4/19 Site Plan approved 11/4/19
Kalas Falls, Rogers Farm, and Watkins Property	Planned Unit Development off Rolesville Rd MA 19-02 (R1 & R2-SUD to R&PUD-CZ) SUP 19-01 for PUD Master Plan 216.99 acres 484 single-family lots; 108 townhomes	Map Amendment (Rezoning) approved 11/19/19 Special Use Permit approved 11/19/19
The Point (Young St. PUD/Shearon-Byrum-Williams)	Planned Unit Development off Rolesville Rd SUP 18-09 309.01 acres 320 single-family lots; 631 townhomes 15 acres commercial	Map Amendment (Rezoning) approved 8/20/19 Special Use Permit approved 8/20/19
The Preserve at Jones Dairy Road Central	Planned Unit Development off Averette Rd SUP 18-06 90.2 acres 261 single-family lots; 173 townhomes	Special Use Permit approved 8/6/19
The Preserve at Jones Dairy Road North	Planned Unit Development off Averette Rd SUP 18-07 49.6 acres 141 single-family lots; 65 townhomes	Special Use Permit approved 8/6/19
The Preserve at Jones Dairy Road South	Planned Unit Development off Averette Rd MA 18-04 (R1 & R2-SUD to R&PUD) SUP 18-05 54.01 acres 221 single-family lots	Map Amendment (Rezoning) approved 9/17/19 Special Use Permit approved 9/17/19

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Regency at Heritage	Subdivision off Forestville Road S 18-03 17.72 acres 27 single-family lots	Preliminary Plat approved 4/2/19 Construction Plan pending approval
Thales Academy	Proposed Planned Unit Development at Averette Rd and Wait Ave. 87.7 acres for 143 single-family lots 31.42 acres for school	Annexation approved 3/6/18 Map Amendment (Rezoning) approved 4/20/18 Special Use Permit approved (6/5/18) Preliminary Plat not submitted School site plan TRC review pending

Permitting Activity

The Town of Rolesville issued nine single-family dwelling and ten townhome permits in January 2020. In January 2019, the Town issued 10 permits. Carlton Pointe, Granite Falls, Granite Ridge, Stonewater, and Willoughby subdivisions received building permits in January. The Town also issued eight Certificates of Occupancy for single-family homes in January. The Town of Rolesville has experienced an increase in permitting activity since January 2019. From January 2019 to December 2019, the Town issued 140 permits, a 23.91 % decrease for the calendar year.

There are significant developments in the review process that have a large number of units. These developments could increase permitting activity in coming months.

Availability

Table 3 shows lots available for permits by subdivision.

Table 3

Subdivision	Total Lots	Platted Lots	Issued Permits January	Lots Available for Permits
Averette Ridge	158	158	0	29
Barrington (Phase 1)	34	34	0	9
Barrington (Phase 2)	32	0	0	34
Carlton Pointe	292	272	3	31
Cedar Lakes	163	163	0	0
Drayton Reserve	156	156	0	0
Granite Falls (Phases 1A, 1B, and 2)	80	80	0	0
Granite Falls (Phases 3&4, 3&4 Section 3, and 6)	101	101	2	63

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Granite Ridge Townhomes	82	82	10	0
Perry Farms	115	41	0	11
Stonewater	208	208	3	62
Willoughby	88	88	1	26

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