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2018 City-Wide Pavement Condition Rating and Recommendations

PREPARED FOR
City of Kirtland, Ohio

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- A - Street Inventory, PCR Value, Recommendation and Budgetary Project Costs - Sorted by Rating Value
- B - Street Inventory, PCR Value, Recommendation and Budgetary Project Costs - Sorted Alphabetically
- C - Recommended 10-year Asset Management Plan

I. DESCRIPTION

In June 2018, the City of Kirtland authorized CT Consultants, Inc. to prepare a Pavement Condition Rating Report of all public roadways within the City. The study includes the following:

- A. Pavement Inventory and Evaluation.
- B. Improvement Options.
- C. Development of a Pavement Program.

II. PAVEMENT INVENTORY

Information from the City of Kirtland's physical pavement inventory was used to populate the Pavement Inventory Information. The following information was used:

- A. Street names.
- B. Approximate pavement length.
- C. Right-of-way width.
- D. Recent year paved.
- E. Road Type (local, collector, arterial).
- F. Type of existing pavement (concrete, asphalt, or chip seal).

Other inventory items were added:

- G. Pavement limits.
- H. Approximate pavement width and area.
- I. Sidewalk, curb ramps and castings.
- J. Ward numbers.

Based upon this inventory, it has been estimated that the City has 63.7 miles of roadway centerline broken down into the following categories:

Concrete Pavement	1.2 miles
Asphalt Pavement	62.0 miles
Chip Seal Pavement	<u>0.5 miles</u>
Total	63.7 centerline miles

III. PAVEMENT EVALUATION

CT's personnel performed an evaluation of each public street in the City. The purpose of this evaluation was to identify and rate deficiencies in the pavements. One person performed all evaluations to provide a consistent basis of evaluation. The Standard ODOT PCR System Pavement Evaluation Rating Forms, shown in Exhibit B, were used to rate types of pavement; Asphalt (local), Concrete (jointed) and Chip Seal.

Listed below are Tables and Charts summarizing results of the City-Wide survey.

IV. IMPROVEMENT OPTIONS

CT has developed a list of improvement options based upon the identified deficiencies in the pavements. The identified improvement options were discussed with the City Engineer and the Public Service Administrator and are as follows:

- A. Crack Sealing
- B. Asphalt Surface Treatment (Chip Seal)
- C. Concrete Joint Repairs
- D. Asphalt / Patch Repairs
- E. Grind / Asphalt Overlay

Based on the field visits, a preliminary estimate of the level of need for each improvement option was developed for each road section. A value between 0 and 5 was assigned for each roadway segment. The value was assigned based upon the following scale:

- 0 - Improvement option is not recommended since the pavement is either in satisfactory condition or the improvement would be unsuccessful.
- 1 - There is a minor need for this improvement, or the improvement will have a minimal chance of success.
- 2 - The need for this improvement has increased, but would not be recommended at this time.
- 3 - The need for this improvement is becoming more critical but is still not warranted in the case of an overlay or replacement.
- 4 - The need for this improvement is justified and should be considered at this time.
- 5 - At a minimum, this improvement should be implemented to protect the integrity of the improvement.

The ratings described above were used in developing the City's short-term and long-term programs. The actual improvements recommended for the top-rated streets were determined to prioritize the 10-year plan. The recommended improvements do not include consideration for improvements necessary to the underground utilities.

V. BUDGETARY COSTS

Budgetary project costs were developed for each improvement option on a unit price basis. These unit price estimates were applied to the dimensions obtained during the physical inventory to develop a budgetary cost for each road section.

The purpose of the budgetary cost estimates is to provide a general idea of the cost associated with improving each street segment. The section of streets considered for improvement each year will be analyzed to develop a more site specific budget cost.

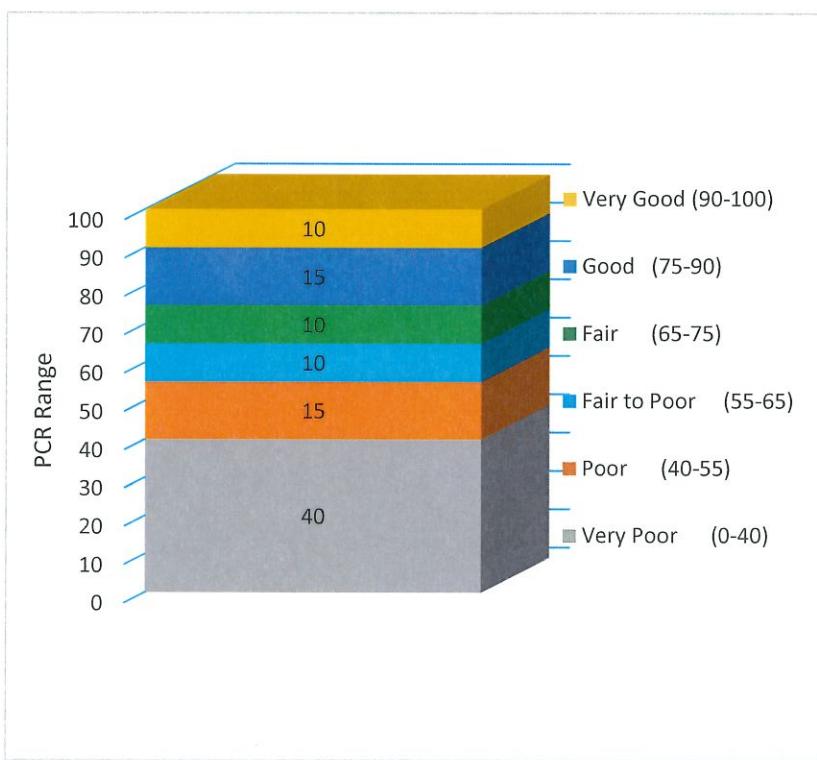
VI. CAPITAL IMPROVEMENTS PLAN

Appendix C depicts a 10-year recommended road program to perform pavement resurfacing, preventative maintenance and repairs on the City's streets. These improvement and repair costs were developed using the current value of a project then calculated to a future cost using 3% compounding interest rates.

VII. EXECUTIVE SUMMARY

The PCR scale and ODOT's descriptive condition of a pavement is a way to illustrate the various ranges of severity levels of a pavement (See Figure 1).

Figure 1 – ODOT PCR Rating Scale



Street Classification by Percentage of Total Mileage

There are a total of 146 street sections with a total street length of approximately 63.7 miles (336,168 feet). These streets consist of 1.2 miles (1.9%) Jointed Concrete (JRC) pavement, 62.0 miles (97.3%) Asphalt / Asphalt Overlay pavement, and 0.5 miles (0.8%) Chip Seal pavement (See Figure 2).

Figure 2 – City-Wide Pavement Type

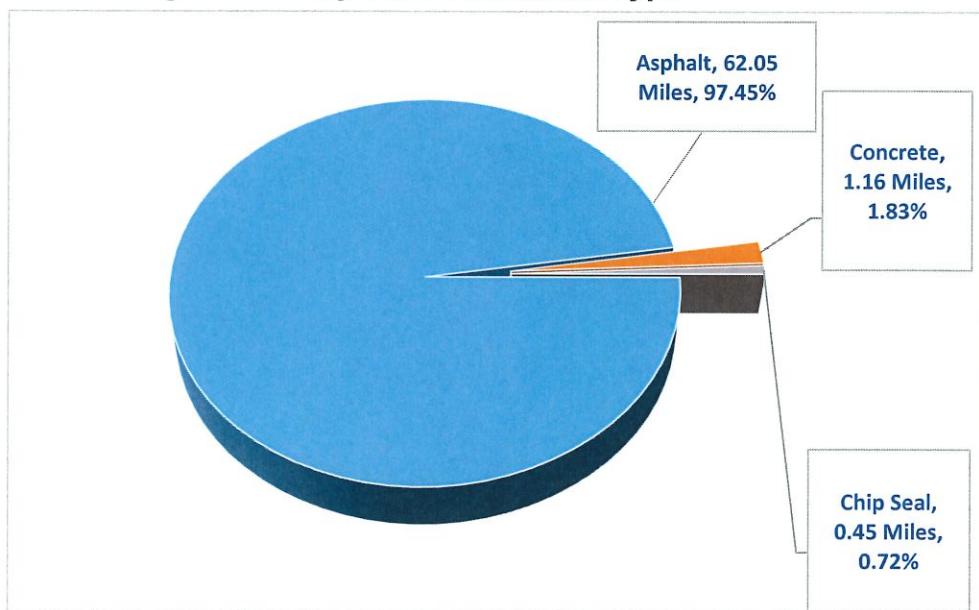


Table 1 – Pavement Type and Average Pavement Condition Ratings by Ward

WARD	ASPHALT PAVEMENT		CONCRETE PAVEMENT		CHIP SEAL		TOTAL PAVEMENT	
	CENTER-LINE MILES	AVERAGE PCR / SECTION						
1	15.932	68.6	0.212	98.0	0.104	71.9	16.248	69.4
2	17.170	62.8	-	0.0	0.174	35.8	17.344	62.1
3	12.258	60.4	0.515	64.0	0.180	75.2	12.953	61.2
4	16.687	64.1	0.436	37.4	-	0.0	17.123	63.2
TOTAL	62.047	64.2	1.163	65.2	0.458	61.0	63.668	64.2

Table 1 shows street classification in total mileage of three (3) different pavements from Wards 1-4.

Pavement Condition Rating by Percentage of Total Mileage

All City streets are categorized based on the PCR scores, Table 2 below shows a summary of the PCR scores sorted by severity levels as a percentage of mileage and sorted by Ward. The result is shown in Figure 3 below. For 146 street sections with the total length of approximately 63.7 miles, 16.9% is very good, 19.0% is good, 13.9% is fair, 20.1% is fair to poor, 21.6% is poor, and 8.4% is very poor. The average PCR for the entire City is 64.2 (Fair to Poor).

Observing the pie chart in Figure 3, the combined percentages of the below standard pavement severity levels between very poor and fair to poor is 50.1% of the City's pavement mileage. This is a high value that can be reduced with the adherence over time to a maintenance and rehabilitation program.

**Table 2 – Pavement Condition Ratings by Percentage
of Total Mileage and by Ward**

WARD	Very Good (>90)		Good (75-90)		Fair (65-75)		Fair to Poor (55-65)		Poor (40-55)		Very Poor (0-40)		TOTALS	
	CENTERLINE MILES	Ward %	CENTERLINE MILES	Ward %	CENTERLINE MILES	Ward %	CENTERLINE MILES	Ward %	CENTERLINE MILES	Ward %	CENTERLINE MILES	Ward %	CENTERLINE MILES	Ward %
1	6.402	39.40%	3.983	24.51%	1.284	7.90%	1.797	11.06%	2.345	14.43%	0.438	2.70%	16.249	100.00%
2	0.839	4.84%	2.538	14.63%	1.337	7.71%	7.438	42.89%	3.679	21.21%	1.512	8.72%	17.343	100.00%
3	1.077	8.31%	1.400	10.81%	4.188	32.33%	2.590	19.99%	3.301	25.48%	0.398	3.07%	12.954	100.00%
4	2.456	14.34%	4.194	24.49%	2.042	11.93%	0.974	5.69%	4.451	25.99%	3.006	17.56%	17.123	100.00%
CITY WIDE TOTAL:	10.774	16.92%	12.115	19.03%	8.851	13.90%	12.799	20.10%	13.776	21.64%	5.354	8.41%	63.669	100.00%

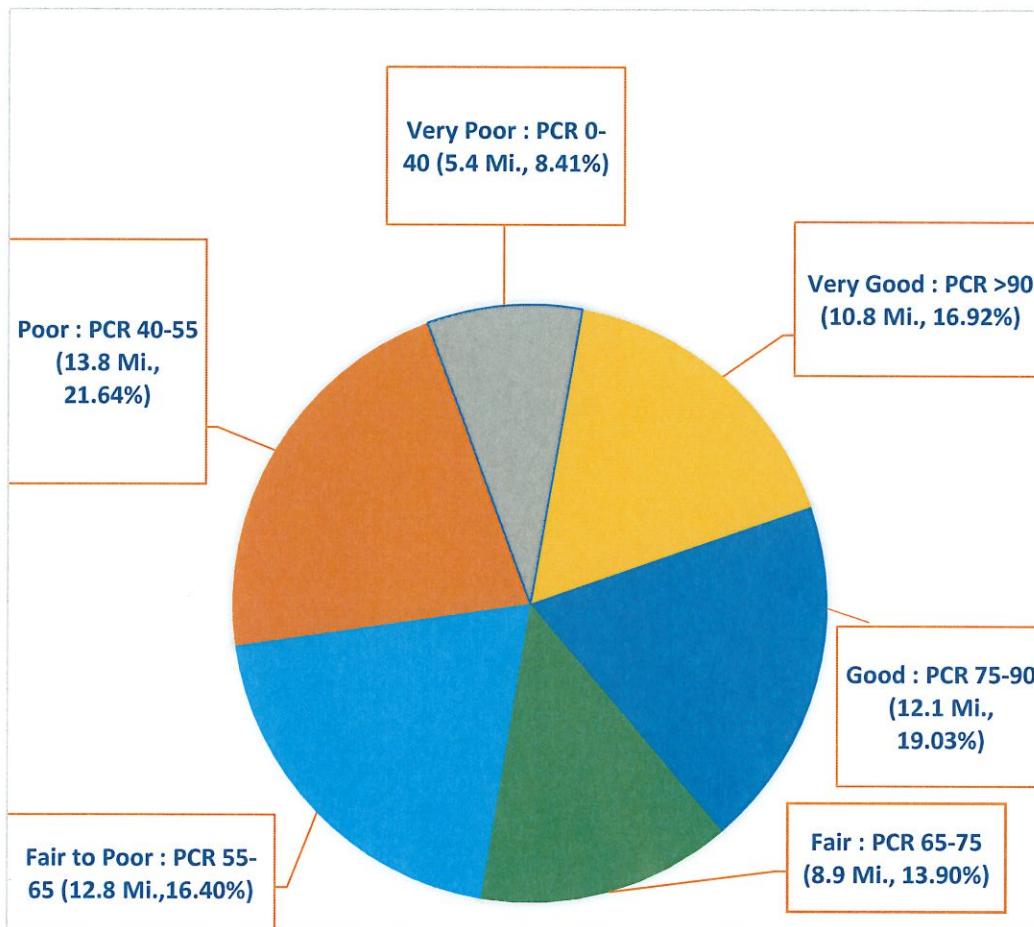
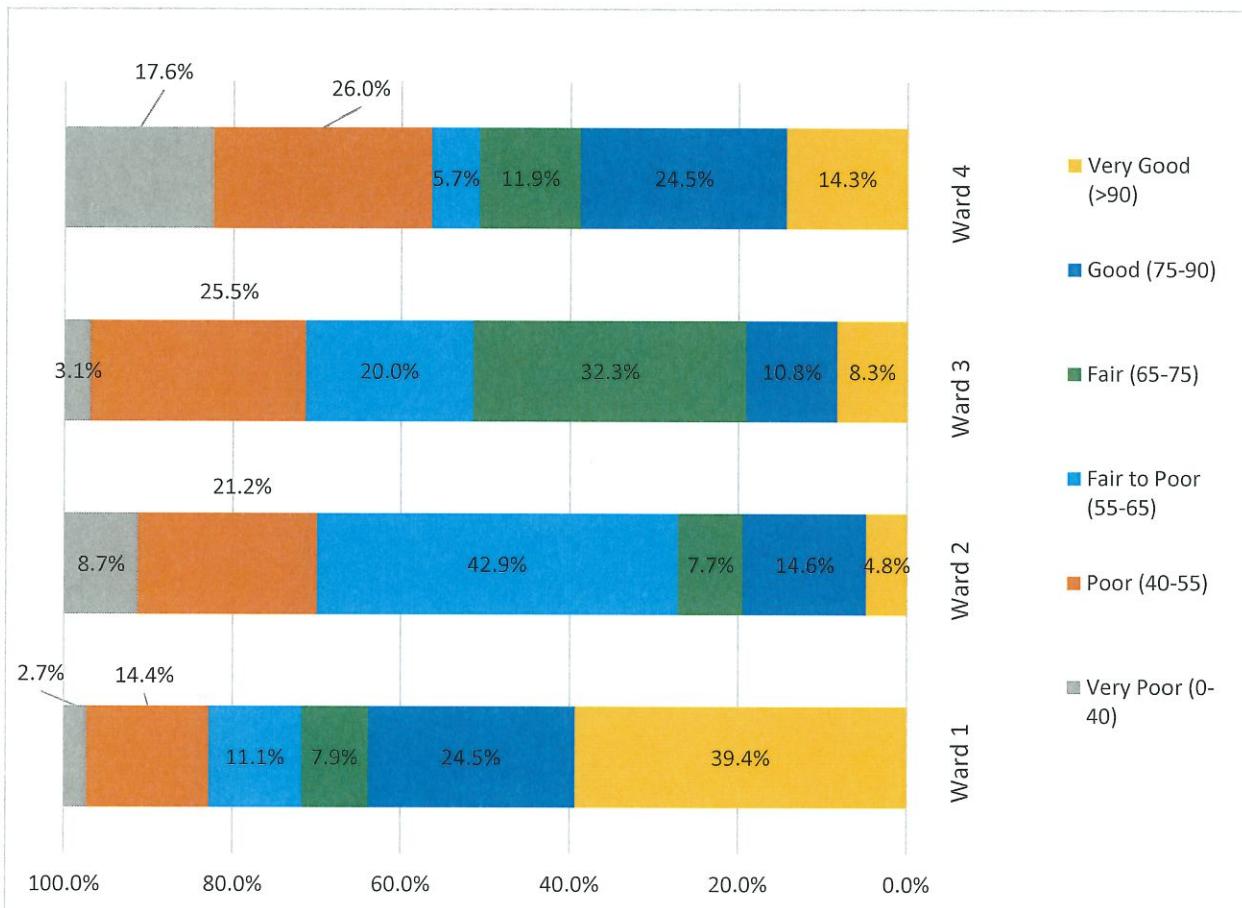
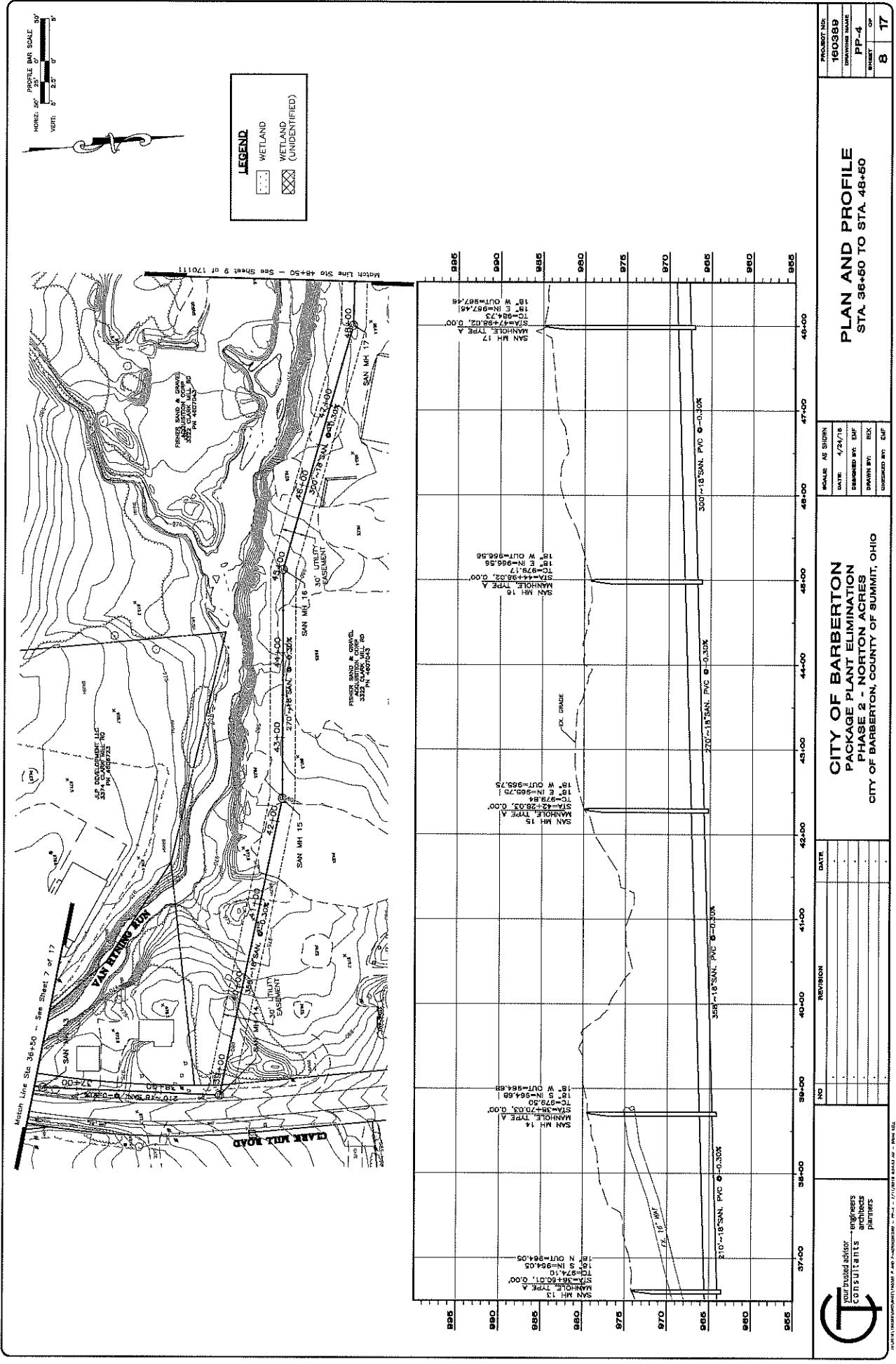
Figure 3 – City-Wide PCR Severity Levels by % Miles

Figure 4 – PCR for City Streets by Mile Percentage per Ward

For an additional comparison to the pie chart in Figure 3, the total street length of each Ward is normalized and six severity condition categories are applied to the PCR scores. The chart in Figure 4 shows a varied distribution of the pavement condition in both percentage and total mileage within and across the four Wards.



APPENDICES

APPENDIX A
STREET INVENTORY, PCR VALUE, RECOMMENDATION AND
BUDGETARY PROJECT COSTS –
SORTED BY RATING VALUE

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
STREET INVENTORY (SORTED BY PCR RATING)

NO. STREET NAME	LIMITS (FROM) (TO)	ROW WIDTH (FT.)	ROAD TYPE	WARD	PAVEMENT DIMENSIONS				DRIVE APRONS			CURB		GUARDRAIL APPROX.	STRIPING	EXISTING PAVEMENT STRUCTURE				
					APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	ADD'L (S.Y.)	PAVE. (S.Y.)	Avg. Length (FT.)	Avg. Width (FT.)	Area (S.F.)	Approx. Length (FT.)	Approx. Length (FT.)			Subbase Type	Base Type	Surface Type		
1 Springer Drive	SR 306	South End Culdesac	60	Local	1	2,112	24	536	6,168	20	6	24	2,880	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
2 Booth Road	Eagle Road East	Kirtland City Line	60	Collector	2	6,825	20	229	15,396	23	10	35	8,050	NONE	0	360	yes	Clay & Stone	Tar & Chip	Asphalt
3 Springer Circle	Springer Drive	West End Culdesac	60	Local	1	200	24	658	1,191	4	6	22	528	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
4 Wisner Road	SR 6	Kirtland-Chardon Road	60	Arterial	4	7,709	20	49	17,180	17	12	20	4,080	NONE	0	2396		Clay & Stone	Tar & Chip	Asphalt
5 Wisner Road (North)	Kirtland-Chardon Road	Kirtland City Line (East)	60	Local	2	240	20	49	582	0	0	0	0	NONE	0	0		Clay & Stone	Tar & Chip	Asphalt
6 Monterey Avenue	SR 306	West End Culdesac	60	Local	3	2,100	22	406	5,539	29	11	23	7,337	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
7 Mitchell Mills Road	Sperry Road	Kirtland City Line (East)	60	Local	2	920	18	30	1,870	0	0	0	0	NONE	0		Clay & Stone	Tar & Chip	Tar & Chip	
8 Bridlehurst Trail	SR 306	East End Culdesac	60	Collector	4	4,277	22	712	11,167	40	12	20	9,600	NONE	0		Clay	Asphalt over Clay	Asphalt	
9 Emerald Glen Court	SR 306	East End Culdesac	60	Local	4	2,300	24	661	6,794	20	12	25	6,000	NONE	0		Clay	Stone	Concrete	
10 Prelog Lane	Sperry Road	West End Culdesac	60	Local	4	1,584	24	1903	6,127	15	9	25	3,375	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
11 Billings Road	SR 306	Sperry Road	60	Collector	4	10,771	19	194	22,932	96	13	20	24,960	NONE	0	181	yes	Clay & Stone	Tar & Chip	Asphalt
12 Beechwood Drive	Parkwood Drive	Oakwood Drive	50	Local	3	2,851	17	0	5,385	28	11	18	5,544	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
13 Highland Court	Hillcrest Road	West End Dead End	50	Local	4	685	20	35	1,557	6	11	17	1,122	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
14 Markell Road	SR 306	Kirtland City Line (West)	60	Collector	1	1,300	18	97	2,697	12	10	25	3,000	NONE	0		yes	Clay & Stone	Tar & Chip	Asphalt
15 Locust Drive	SR 306	SR 306	50	Local	4	4,163	16	35	7,436	43	10	22	9,460	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
16 Fox Hill Drive	Kirtland-Chardon Road	North End Culdesac	60	Local	2	1,267	20	774	3,590	15	9	23	3,105	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
17 Timbercreek Drive	Berkshire Hills Drive	North End Culdesac	50	Local	3	845	18	162	1,852	10	11	17	1,870	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
18 Grandview Drive	SR 6	North End Culdesac	50	Local	3	1,478	24	519	4,460	16	10	22	3,520	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
19 Hillcrest Road	Billings Road	North End Dead End	60	Local	4	2,000	20	32	4,477	24	8	20	3,840	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
20 Gildersleeve Drive	SR 6	East End Dead End	40	Local	1	3,500	18	43	7,043	37	10	20	7,400	NONE	0	290		Clay & Stone	Tar & Chip	Asphalt
21 Forestdale Road	North End Culdesac	South End Culdesac	50	Local	2	2,800	18	60	5,660	43	11	17	8,041	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
22 Longview Drive	Graylock Drive	North End Culdesac	60	Local	3	1,373	18	117	2,863	12	10	25	3,000	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
23 Palomino Trail	Bridlehurst Trail	West End Culdesac	60	Local	4	2,323	24	750	6,945	24	10	25	6,000	NONE	0		Clay	Asphalt over Clay	Asphalt	
24 Crestwood Drive (North)	Beechwood Drive	275' S. of Oakwood Dr.	50	Local	3	1,640	21	43	3,870	16	9	20	2,880	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
25 Shadowbrook Drive	Hobart Road	West End Culdesac	60	Local	3	3,115	20	559	7,481	29	10	22	6,380	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
26 Elm Street	South End Dead End	North End Dead End	45	Local	1	2,060	20	0	4,578	35	11	17	6,545	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
27 Alpine Drive	Eagle Road	Eagle Road	50	Local	2	3,235	19	75	6,904	32	8	17	4,352	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
28 Regency Woods Drive (North)	Cardinal Drive	Riverwood Way / Westw	60	Collector	2	2,660	22	62	6,564	19	9	28	4,788	NONE	0	1100		Clay	Asphalt over Clay	Asphalt
29 Westwood Road	Forestdale Drive	Riverwood Way	50	Local	2	1,245	20	73	2,840	13	10	20	2,600	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
30 Far Bar Road	Crary Lane	East End Culdesac	50	Local	4	1,160	19	230	2,679	16	7	22	2,464	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
31 Rockwood Drive	SR 6	South End Culdesac	60	Local	3	2,000	24	649	5,982	24	11	23	6,072	NONE	0		Clay	Stone	Asphalt	
32 Crary Lane	SR 6	Far Bar Road	50	Local	4	1,450	18	43	2,943	15	10	21	3,150	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
33 Riverwood Way	Westwood Road	North End Culdesac	60	Local	2	2,500	22	963	7,074	18	11	28	5,544	NONE	0		Clay	Asphalt over Clay	Asphalt	
34 Ledgewood Drive	Rockwood Drive	West End Culdesac	60	Local	3	1,525	20	760	4,149	28	11	20	6,160	NONE	0		Clay	Stone	Asphalt	
35 Florence Road	Alexander Road	North End Dead End	40	Local	1	535	12	53	766	8	1	30	240	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
36 Russellhurst Drive	SR 306	West End Culdesac	40	Local	1	2,400	20	263	5,596	35	10	25	8,750	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
37 Appaloosa Trail	Bridlehurst Trail	East End Culdesac	60	Local	4	950	23	59	2,486	10	7	11	770	NONE	0		Clay	Asphalt over Clay	Asphalt	
38 Thorne Avenue	North End Culdesac	South End Culdesac	60	Local	2	740	18	118	1,598	6	8	20	960	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
39 Elmwood Drive	Crestwood Drive	Parkwood Drive	50	Local	3	840	18	23	1,703	6	9	20	1,080	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
40 Kimberly Drive	Gildersleeve Drive	Gildersleeve drive	40	Local	1	1,586	17	60	3,056	15	11	17	2,805	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
41 North Star Rd.	Charlesderry Road	North End Dead End	0	Local	1	1,0														

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
STREET INVENTORY (SORTED BY PCR RATING)

NO. STREET NAME	LIMITS (FROM) (TO)	ROW WIDTH (FT.)	ROAD TYPE	WARD	PAVEMENT DIMENSIONS				DRIVE APRONS			CURB		GUARDRAIL	STRIPING	EXISTING PAVEMENT STRUCTURE				
					APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	ADD'L AREA (S.Y.)	PAVE. AREA (S.Y.)	Avg. Length NO.	Avg. Width (FT.)	Area (S.F.)	APPROX. LENGTH (FT.)	APPROX. LENGTH (FT.)			Subbase Type	Base Type	Surface Type		
					(FT.)	(FT.)	(S.Y.)	(S.Y.)		(FT.)	(S.F.)		(FT.)	(FT.)						
49 Chillicothe Road (East) (aka 615)	SR 306	Kirtland City Line (East)	60	Arterial	1	3,930	28	882	13,109	9	20	35	6,300	VERTICAL	1000	800	yes	Clay & Stone	Tar & Chip	Asphalt
50 Parkwood Drive	SR 306	Elmwood Drive	50	Collector	3	580	20	32	1,321	3	11	25	825	NONE	0			Clay & Stone	Tar & Chip	Asphalt
51 Eisenhower Drive	SR 306	West End Dead End	40	Local	1	1,056	20	43	2,390	13	10	25	3,250	NONE	0			Clay & Stone	Tar & Chip	Asphalt
52 Misty Hollow Lane	SR 6	North End Culdesac	60	Local	3	1,575	24	643	4,843	12	9	22	2,376	NONE	0			Clay	Stone	Asphalt
53 Valleyview Oval	Quail Circle	Quail Circle	130	Local	2	320	24	75	928	3	6	20	360	NONE	0			Clay	Stone	Asphalt
54 Applewood Drive	Eagle Road	Alpine Drive	60	Local	2	1,100	19	30	2,352	5	8	17	680	NONE	0			Clay & Stone	Tar & Chip	Asphalt
55 Kirtland-Chardon Road (Mid)	Booth Road	Sperry Road	60	Arterial	2	7,250	22	43	17,765	20	20	40	16,000	NONE	0	1280	yes	Clay & Stone	Asphalt over Stone	Asphalt
56 Kirtland-Chardon Road (North)	Chillicothe Road	Booth Road	60	Arterial	2	11,560	22	846	29,104	62	20	40	49,600	CURB & GUTTE	5000	3680	yes	Clay & Stone	Asphalt over Stone	Asphalt
57 Glenstone Drive	Eagle Road	North End Culdesac	60	Local	2	1,325	20	218	3,163	17	8	20	2,720	NONE	0			Clay & Stone	Tar & Chip	Asphalt
58 Angela Drive	SR 6	South End Culdesac	60	Local	3	3,430	25	691	10,219	32	9	20	5,760	NONE	0			Clay	Asphalt over Clay	Asphalt
59 Fairview Avenue	Elm Street	Coudry Drive	50	Local	1	900	20	86	2,086	13	10	22	2,860	NONE	0			Clay & Stone	Tar & Chip	Asphalt
60 Coudry Street	Joseph Street	Maple Street	66	Local	1	716	17	268	1,620	14	11	17	2,618	VERTICAL	1432			Clay & Stone	Tar & Chip	Asphalt
61 Anna Drive	SR 6	South End Culdesac	60	Local	3	1,020	24	49	2,769	4	11	17	748	NONE	0			Clay	Stone	Concrete
62 Saxon Drive	Eisenhower Drive	Eisenhower Drive	40	Local	1	1,300	20	98	2,987	16	10	20	3,200	NONE	0			Clay & Stone	Tar & Chip	Asphalt
63 Amberwood Drive	Kirtland-Chardon Road	North End Culdesac	60	Local	2	4,961	21	59	11,634	38	8	17	5,168	NONE	0			Clay	Asphalt over Clay	Asphalt
64 Kelsey Court	Worell Road	East End Culdesac	60	Local	3	480	24	675	1,955	6	11	19	1,254	VERTICAL	960			Clay	Stone	Concrete
65 Blueberry Hill Drive	SR 6	South End Culdesac	60	Local	3	2,100	24	649	6,249	28	10	22	6,160	NONE	0			Clay	Asphalt over Clay	Asphalt
66 Berkshire Hills Drive	Graylock Drive	Timbercreek Drive	50	Local	3	1,689	19	59	3,624	15	11	15	2,475	NONE	0			Clay & Stone	Tar & Chip	Asphalt
67 Sperry Road (South)	Euclid -Chardon Road	South Kirtland City Line	60	Arterial	4	3,200	22	260	8,082	18	15	32	8,640	NONE	0	280	yes	Clay & Stone	Tar & Chip	Asphalt
68 Eagles Nest Lane	White Oak Road	North End Culdesac	60	Local	2	1,190	22	1897	4,806	7	7	23	1,127	NONE	0		yes	Clay	Stone	Asphalt
69 White Oak Road	Cradinal Drive	East End Culdesac	60	Local	2	3,176	24	543	9,012	24	10	22	5,280	NONE	0			Clay	Stone	Asphalt
70 Ptarmigan Court	Pheasant Lane	West End Culdesac	60	Local	2	1,003	24	756	3,431	10	11	17	1,870	NONE	0			Clay	Asphalt over Clay	Asphalt
71 Hidden Valley Drive	Tibbets Road	West End Culdesac	50	Local	3	2,165	20	545	5,356	25	8	18	3,600	NONE	0			Clay & Stone	Tar & Chip	Asphalt
72 Forest Edge	Booth Road	Amber Wood Drive	60	Local	2	1,090	21	153	2,696	6	10	25	1,500	NONE	0			Clay	Asphalt over Clay	Asphalt
73 Maple Street	SR 306	Elm Street	55	Collector	1	1,584	20	86	3,606	18	11	22	4,356	NONE	0			Clay & Stone	Tar & Chip	Asphalt
74 Pheasant Lane	Partridge Trail	East End Culdesac	60	Local	2	1,580	22	628	4,490	13	10	25	3,250	NONE	0			Clay	Asphalt over Clay	Asphalt
75 Woods Way Drive	Kirtland-Chardon Road	North End Culdesac	60	Local	2	1,000	24	1037	3,704	9	8	24	1,728	NONE	0			Clay	Asphalt over Clay	Asphalt
76 Woodhill Road	Kirtland-Chardon Road	Forestdale Drive	60	Local	2	480	18	169	1,129	3	8	16	384	NONE	0			Clay & Stone	Tar & Chip	Asphalt
77 Heath Road	SR 6	Kirtland City Line (South)	60	Collector	4	2,693	20	86	6,070	14	10	25	3,500	NONE	0	152		Clay & Stone	Tar & Chip	Asphalt
78 Alexander Drive	SR 306	Florence Road	35	Local	1	390	24	97	1,137	3	8	53	1,215	NONE	0			Clay & Stone	Tar & Chip	Asphalt
79 Charlesderry Road	Temple View Road	East End Dead End	40	Local	1	1,060	20	17	2,373	15	8	20	2,400	NONE	0			Clay & Stone	Tar & Chip	Asphalt
80 Wilbert Drive	Billings Road	South End Culdesac	50	Local	4	2,050	18	244	4,344	26	12	25	7,800	NONE	0			Clay & Stone	Tar & Chip	Asphalt
81 Glen Park Road	Temple View Road	East End Dead End	40	Local	1	1,100	20	0	2,444	17	12	25	5,100	NONE	0			Clay & Stone	Tar & Chip	Asphalt
82 Joseph Street	SR 306	Metcalf Road	60	Local	1	1,891	20	151	4,353	45	7	20	6,300	NONE	0			Clay & Stone	Tar & Chip	Asphalt
83 Gildersleeve Circle	Gildersleeve Drive	West End Culdesac	40	Local	1	280	18	162	722	4	9	20	720	NONE	0			Clay & Stone	Tar & Chip	Asphalt
84 Bluff Street	Maple Street	North End Dead End	40	Local	1	405	18	19	829	6	11	17	1,122	NONE	0			Clay & Stone	Tar & Chip	Asphalt
85 Briar Hill (2) Court	Briar Hill Drive	E-W Middle Culdesac	50	Local	3	1,400	20	218	3,329	4	11	17	748	NONE	0			Clay & Stone	Tar & Chip	Asphalt
86 Hemlock Ridge Drive	Regency Woods Drive	East End Culdesac	60	Local	2	1,950	22	1032	5,798	24	10	24	5,760	NONE	0			Clay	Asphalt over Clay	Asphalt
87 Raccoon Hill Drive	Hobart Road	Loops Back Into Itself	60	Local	3	4,900	20	60	10,949	56	11	20	12,320	NONE	0	102		Clay & Stone	Tar & Chip	Asphalt

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
STREET INVENTORY (SORTED BY PCR RATING)

NO. STREET NAME	LIMITS (FROM) (TO)	ROW WIDTH (FT.)	ROAD TYPE	WARD	PAVEMENT DIMENSIONS				DRIVE APRONS			CURB		GUARDRAIL APPROX.	STRIPING	EXISTING PAVEMENT STRUCTURE				
					APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	ADD'L (S.Y.)	PAVE. (S.Y.)	AVG. LENGTH (FT.)	AVG. WIDTH (FT.)	AREA (S.F.)	APPROX. LENGTH (FT.)	APPROX. LENGTH (FT.)			SUBBASE TYPE	BASE TYPE	SURFACE TYPE		
98 Shaw Avenue	Kirtland-Chardon Road Thorne Avenue	60	Local	2	417	22	104	1,123	3	8	30	720	NONE	0		Clay & Stone	Tar & Chip	Asphalt		
99 Thwing Road	SR 6 Kirtland City Line	60	Arterial	4	475	22	92	1,254	1	32	96	3,072	NONE	0		yes	Clay & Stone	Tar & Chip	Asphalt	
100 Briar Hill (1) Drive	SR 6 North End Culdesac	50	Local	3	1,520	22	333	4,048	30	11	17	5,610	NONE	0		Clay & Stone	Tar & Chip	Asphalt		
101 Christina Drive	Billings Road South End Culdesac	60	Local	4	1,930	24	585	5,732	22	8	20	3,520	NONE	0		Clay	Stone	Asphalt		
102 Stone Ridge Dr.	SR 6 North End Culdesac	50	Local	3	1,618	18	715	3,951	14	12	22	3,696	NONE	0		no	Clay	Stone	Asphalt	
103 Euclid-Chardon Road (West)	Kirtland City Line (West) Chillicothe Road (aka SR 306)	60	Arterial	3	11,665	25	889	33,292	125	15	45	84,375	VERTICAL	900	670	yes	Clay & Stone	Tar & Chip	Asphalt	
104 Rocking Horse Trail	SR 6 North End Culdesac	60	Collector	4	2,560	22	677	6,934	24	11	30	7,920	NONE	0			Cement Treated	Stone	Asphalt	
105 Shetland Court	Rocking Horse Trail East End Culdesac	60	Local	4	500	22	680	1,902	9	11	22	2,178	NONE	0			Cement Treated	Stone	Asphalt	
106 Kildeer Road	SR 6 North End Culdesac	50	Local	3	950	20	208	2,319	8	13	20	2,080	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
107 Conley Road	SR 306 West End Dead End	14	Local	1	400	17	12	768	3	10	32	960	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
108 Euclid-Chardon Road (Mid)	Chillicothe Road (aka SR 306) Sperry Road	60	Arterial	4	9,900	25	766	28,266	75	15	45	50,625	VERTICAL	640	1730	yes	Clay & Stone	Tar & Chip	Asphalt	
109 Foxwood Trail	Eagle Road South End Culdesac	60	Local	1	959	20	709	2,840	7	9	24	1,512	VERTICAL	1918			Clay	Stone	Asphalt	
110 Dewey(Gem) Rd.	Sperry Road Heath Road	60	Collector	4	1,584	20	98	3,618	13	8	22	2,288	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
111 Partridge Trail	Eagle Road Pheasant Lane	60	Collector	2	1,730	24	97	4,710	15	11	25	4,125	NONE	0			Clay	Asphalt over Clay	Asphalt	
112 Euclid-Chardon Road (East)	Sperry Road Kirtland City Line (East)	60	Arterial	4	5,050	25	1176	15,204	21	15	45	14,175	NONE	0	1375	yes	Clay & Stone	Tar & Chip	Asphalt	
113 Garfield Road	Chillicothe Road Kirtland City Line (North)	60	Arterial	1	4,330	22	28	10,612	4	10	30	1,200	NONE	0	1394	yes	Clay & Stone	Tar & Chip	Asphalt	
114 Cardinal Drive	Regency Woods Drive Kirtland City Line	60	Local	2	2,500	24	46	6,713	17	12	25	5,100	NONE	0			Clay	Stone	Asphalt	
115 Hobart Road	SR 6 Kirtland City Line (North)	60	Collector	1	6,286	20	49	14,018	55	10	32	17,600	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
116 Bayshire Trail	SR 6 Walkers Lane	60	Local	4	1,030	22	76	2,594	10	11	19	2,090	VERTICAL	2060			Cement Treated	Stone	Asphalt	
117 Ascot Place	Rocking Horse Trail West End Culdesac	60	Local	4	550	25	656	2,184	10	10	13	1,300	VERTICAL	1100			Cement Treated	Stone	Asphalt	
118 Gaitside Trail	Walkers Lane North End Culdesac	50	Local	4	2,000	22	628	5,517	12	7	23	1,932	VERTICAL	4000			Cement Treated	Stone	Asphalt	
119 Courtney Lane	Billings Road North End Culdesac	50	Local	4	1,228	18	626	3,082	5	7	22	770	NONE	0			Clay	Stone	Asphalt	
120 Oakwood Drive	Beechwood Drive Crestwood Drive	50	Local	3	580	18	43	1,203	4	8	19	608	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
121 Sugarhouse Hill Court	Stone Ridge Drive North End Culdesac	50	Local	3	222	18	734	1,178	4	10	23	920	NONE	0			no	Clay	Stone	Asphalt
122 Giuliano Drive	Anna Drive West End Culdesac	60	Local	3	360	24	1865	2,825	5	10	22	1,100	NONE	0			Clay	Stone	Concrete	
123 Robin Lane	White Oak Road South End Culdesac	60	Local	2	1,040	24	1883	4,656	10	8	30	2,400	NONE	0			Clay	Stone	Asphalt	
124 Templeview Road	SR 306 Charlesderry Road	40	Local	1	180	22	43	483	1	11	17	187	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
125 Eagle Road (East)	SR 306 Kirtland-Chardon Road	60	Arterial	2	8,131	22	234	20,110	81	15	30	36,450	NONE	0	490		Clay & Stone	Tar & Chip	Asphalt	
126 Strumbly Glen Lane	Orchard Drive North End Culdesac	50	Local	1	1,854	18	787	4,495	9	10	24	2,160	NONE	0			Cement Treated	Stone	Asphalt	
127 Quarry View Lane	Strumbly Glenn Lane East End Culdesac	50	Local	1	1,060	18	781	2,901	5	11	20	1,100	NONE	0			Cement Treated	Stone	Asphalt	
128 Tibbetts Road	SR 6 Kirtland City Line	60	Arterial	3	5,280	20	76	11,810	49	8	25	9,800	NONE	0	459	yes	Clay & Stone	Tar & Chip	Asphalt	
129 Orchard Dr.	Hobart Road South End Culdesac	50	Local	1	1,982	20	709	5,113	9	11	23	2,277	NONE	0			no	Cement Treated	Stone	Asphalt
130 Eagle Creek Court	Foxwood Trail West End Culdesac	50	Local	1	1,547	18	1059	4,153	7	7	23	1,127	NONE	0			Clay	Stone	Asphalt	
131 Chillicothe Road (North) (aka Kirtland City Line (North))	1,100 south of Clocktower	60	Arterial	1	1,330	60	59	8,925	2	40	24	1,920	VERTICAL	2660	400	yes	Clay & Stone	Tar & Chip	Asphalt	
132 Barristers court	SR 306 West End Culdesac	60	Local	1	1,100	23	682	3,493	11	10	15	1,650	VERTICAL	2200			Cement Treated	Stone	Asphalt	
133 Kirtland Lake Boulevard	Thwing Road Woodlake Drive	80	Local	4	300	30	194	1,194	2	8	20	320	NONE	0			Cement Treated	Asphalt over Stone	Asphalt	
134 Sperry Road (North)	Kirtland-Chardon Road Euclid -Chardon Road	60	Arterial	4	7,050	22	138	17,371	27	15	32	12,960	NONE	0	0	yes	Clay & Stone	Tar & Chip	Asphalt	
135 Woodlake Drive	Kirtland Lakes Boulevard West End Culdesac	60	Local	4	3,120	24	936	9,256	18	10	18	3,240	NONE	0			Cement Treated	Stone	Asphalt	
136 Martin Road	Booth Road East End Dead End	60	Local	2	2,900	18	35	5,835	20	10	22	4,400	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
137 Wrenwood Drive	Eagle Road North End Dead End	40	Local	1	950	20	49	2,160	8	8	20	1,280	NONE	0			Clay & Stone	Tar & Chip	Asphalt	
138 Lake Brook Drive	Kirtland Lakes Boulevard Woodlake Drive	60</td																		

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
STREET INVENTORY (SORTED BY PCR RATING)

NO. STREET NAME	LIMITS (FROM) (TO)	ROW WIDTH (FT.)	ROAD TYPE	WARD	PAVEMENT DIMENSIONS				DRIVE APRONS		CURB		GUARDRAIL APPROX.	STRIPING	EXISTING PAVEMENT STRUCTURE		
					APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	ADD'L AREA (S.Y.)	PAVE. AREA (S.Y.)	AVG. LENGTH (FT.)	AVG. WIDTH (FT.)	AREA (S.F.)	APPROX. LENGTH (FT.)	APPROX. LENGTH (FT.)		SUBBASE TYPE	BASE TYPE	SURFACE TYPE

APPENDIX A
STREET INVENTORY
SUMMARY

TOTALS :	All Roads:	APPROX. LENGTH	PAVE. AREA	DRIVE APRONS NO.	CURB APPROX. LENGTH	GUARDRAIL APPROX. LENGTH	
		AREA (S.F.)	AREA (S.F.)	TYPE	LENGTH (FT.)	LENGTH (FT.)	
	All Roads:	336,168 Ft.	892,720	2,839 Each	922,950	58,832 Ft.	20,201 Ft.
		63.7 Mi.				11.1 Mi.	3.8 Mi.
	Concrete Roads:	6,140 Ft.	20,506	54 Each	12,638	4,920 Ft.	- Ft.
		1.2 Mi.				0.9 Mi.	0.0 Mi.
	Asphalt Roads And Asphalt Overlay Roads:	327,608 Ft.	866,902	2,773 Each	906,472	53,912 Ft.	20,201 Ft.
		62.0 Mi.				10.2 Mi.	3.8 Mi.
	Tar & Chip Roads:	2,420 Ft.	5,312	12 Each	3,840	- Ft.	- Ft.
		0.5 Mi.				0.0 Mi.	0.0 Mi.
	Local Roads:	163,452 Ft.	432,122	1,647 Each	335,613	23,840 Ft.	392 Ft.
		31.0 Mi.				4.5 Mi.	0.1 Mi.
	Collector Roads:	46,530 Ft.	108,091	1,611 Each	99,580	- Ft.	2,493 Ft.
		8.8 Mi.				0.0 Mi.	0.5 Mi.
	Arterial Roads:	126,186 Ft.	352,507	826 Each	487,757	34,992 Ft.	17,316 Ft.
		23.9 Mi.				6.6 Mi.	3.3 Mi.

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
PAVEMENT EVALUATION (SORTED BY PCR RATING)

NO.	STREET NAME	LIMITS	PAVEMENT CONDITION RATING 100= BEST	RECOMMEND'S, "0" = DO NOTHING					Recommended Repair	ORIGINAL CONSTR. YEAR	PREVIOUS IMPROVEMENTS				LAST RATING
				CRACKSEAL (0-5)	ASPHALT SURFACE TREATMENT (0-5)	CONCRETE JOINT REPAIRS (0-5)	ASPHALT PATCH REPAIRS (0-5)	GRIND & OVERLAY (0-5)			YEAR	TYPE	Performed by	Material Cost	
				(FROM)	(TO)										
1	Springer Drive	SR 306	South End Culdesac	28.3	0	0	0	0	5 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 10,000.00	Fair
2	Booth Road	Eagle Road East	Kirtland City Line	32.4	0	0	0	0	5 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 32,250.00	Good
3	Springer Circle	Springer Drive	West End Culdesac	32.8	0	0	0	0	5 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 2,000.00	Fair
4	Wisner Road	SR 6	Kirtland-Chardon Road	33.6	0	0	0	0	5 Mill and Fill	<1970	1996	RESURFACED	contractor		Poor
5	Wisner Road (North)	Kirtland-Chardon Road	Kirtland City Line (East)	33.6	0	0	0	0	5 Mill and Fill	<1970	1996	RESURFACED	contractor		Poor
6	Monterey Avenue	SR 306	West End Culdesac	34.2	3	0	0	0	5 Mill and Fill	1966	2005	RESURFACED	service dept.		Fair
7	Mitchell Mills Road	Sperry Road	Kirtland City Line (East)	35.8	0	0	0	0	5 Mill and Fill	<1970	1988	RESURFACED	contractor		Fair
8	Bridlehurst Trail	SR 306	East End Culdesac	36.7	2	0	0	1	4 Mill and Fill	1976	2000	RESURFACED	service dept.	\$ 32,400.00	Fair
9	Emerald Glen Court	SR 306	East End Culdesac	37.4	1	0	5	0	3 Ashpalt Overlay	1991	1992	NEW	developer		Good
10	Prelog Lane	Sperry Road	West End Culdesac	39.9	0	0	0	0	5 Mill and Fill	<1970	1993	RESURFACED	developer		Fair
11	Billings Road	SR 306	Sperry Road	40.0	0	0	0	2	4 Partial Depth Repair	<1970	2003	RESURFACED	service dept.	\$ 97,920.00	Fair
12	Beechwood Drive	Parkwood Drive	Oakwood Drive	40.8	0	0	0	0	5 Mill and Fill	<1970	1992	RESURFACED	contractor		Poor
13	Highland Court	Hillcrest Road	West End Dead End	41.1	0	0	0	0	4 Mill and Fill	<1970	2001	RESURFACED	service dept.	\$ 4,680.00	Fair
14	Markell Road	SR 306	Kirtland City Line (West)	42.6	2	0	0	0	5 Mill and Fill	<1970	1993	RESURFACED	contractor		Good
15	Locust Drive	SR 306	SR 306	42.8	1	0	0	0	3 Full Depth Repair	<1970	2001	RESURFACED	service dept.	\$ 30,960.00	Good
16	Fox Hill Drive	Kirtland-Chardon Road	North End Culdesac	43.1	0	0	0	0	5 Mill and Fill	1962	1997	RESURFACED	service dept.	\$ 35,060.00	Fair
17	Timbercreek Drive	Berkshire Hills Drive	North End Culdesac	43.2	0	0	0	0	5 Mill and Fill	<1970	2003	RESURFACED	service dept.	\$ 7,680.00	Good
18	Grandview Drive	SR 6	North End Culdesac	43.6	0	0	0	0	3 Mill and Fill	<1970	2016	RESURFACED	service dept.	\$ 16,984.00	Excellent
19	Hillcrest Road	Billings Road	North End Dead End	43.6	0	0	0	0	4 Mill and Fill	<1970	2001	RESURFACED	service dept.	\$ 11,880.00	Fair
20	Gildersleeve Drive	SR 6	East End Dead End	43.8	2	0	0	2	4 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 17,000.00	Good
21	Forestdale Road	North End Culdesac	South End Culdesac	44.0	1	0	0	0	5 Mill and Fill	1954	2002	RESURFACED	service dept.	\$ 13,750.00	Good
22	Longview Drive	Graylock Drive	North End Culdesac	44.0	2	0	0	0	4 Mill and Fill	<1970	2004	RESURFACED	service dept.	\$ 14,560.00	Good
23	Palomino Trail	Bridlehurst Trail	West End Culdesac	44.0	2	0	0	1	4 Partial Depth Repair	1976		RESURFACED	service dept.	\$ 17,600.00	Good
24	Crestwood Drive (North)	Beechwood Drive	275' S. of Oakwood Dr.	44.2	0	0	0	0	5 Mill and Fill	<1970	1992	RESURFACED	contractor		Poor
25	Shadowbrook Drive	Hobart Road	West End Culdesac	44.8	0	0	0	0	5 Mill and Fill	1962	1993	RESURFACED	contractor		Fair
26	Elm Street	South End Dead End	North End Dead End	44.9	5	0	0	0	2 Mill and Fill	<1970	2006	RESURFACED	service dept.	\$ 11,237.83	Good
27	Alpine Drive	Eagle Road	Eagle Road	45.2	0	0	0	0	4 Mill and Fill	<1970	2003	RESURFACED	service dept.	\$ 39,360.00	Good
28	Regency Woods Drive (North)	Cardinal Drive	Riverwood Way / Westwo	45.8	3	0	0	0	4 Mill and Fill	1989	2001	RESURFACED	service dept.	\$ 18,144.00	Good
29	Westwood Road	Forestdale Drive	Riverwood Way	45.9	1	0	0	0	4 Mill and Fill	1955	2002	RESURFACED	service dept.	\$ 6,000.00	Poor
30	Far Bar Road	Crary Lane	East End Culdesac	46.0	1	0	0	0	4 Full Depth Repair	<1970	2002	RESURFACED	service dept.	\$ 7,250.00	Fair
31	Rockwood Drive	SR 6	South End Culdesac	46.0	1	0	0	0	4 Mill and Fill	1970	1999	RESURFACED	service dept.	\$ 16,000.00	Fair
32	Crary Lane	SR 6	Far Bar Road	46.4	0	0	0	0	4 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 6,750.00	Fair
33	Riverwood Way	Westwood Road	North End Culdesac	47.0	3	0	0	0	4 Mill and Fill	1989	1993	NEW	developer		Good
34	Ledgewood Drive	Rockwood Drive	West End Culdesac	48.0	0	0	0	0	5 Full Depth Repair	1970	1999	RESURFACED	service dept.	\$ 11,600.00	Poor
35	Florence Road	Alexander Road	North End Dead End	48.2	2	0	0	0	4 Mill and Fill	<1970	1992	RESURFACED	contractor		Fair
36	Russellhurst Drive	SR 306	West End Culdesac	49.2	4	0	0	2	2 Partial Depth Repair	<1970	2003	RESURFACED	service dept.	\$ 15,840.00	Fair
37	Appaloosa Trail	Birdlehurst Trail	East End Culdesac	51.4	2	0	0	4	3 Partial Depth Repair	1976	2000	RESURFACED	service dept.	\$ 7,200.00	Good
38	Thorne Avenue	North End Culdesac	South End Culdesac	51.4	1	0	0	0	4 Mill and Fill	<1970	1993	RESURFACED	contractor		Poor
39	Elmwood Drive	Crestwood Drive	Parkwood Drive	52.1	0	0	0	0	4 Mill and Fill	<1970	1992	RESURFACED	contractor		Fair
40	Kimberly Drive	Gildersleeve Drive	Gildersleeve drive	52.4	0	0	0	0	4 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 8,500.00	Good
41	North Star Rd.	Charlesderry Road	North End Dead End	53.5	0	0	0	0	4 Mill and Fill	<1970	2007	RESURFACED	service dept.	\$ 13,933.00	Good
42	Hillsover Drive	Berkshire Hills Drive	Longview Drive	53.9	2	0	0	4	4 Partial Depth Repair	<1970	2004	RESURFACED	service dept.	\$ 8,400.00	Good
43	Crestwood Drive (South)	275' S. of Oakwood Dr.	South End Culdesac	54.5	1	0	5	0	0 Full Depth Repair	<1970	1992	RESURFACED	contractor		Poor
44	Quail Circle (East)	Circle	East End Culdesac	54.6	2	0	0	0	4 Mill and Fill	1977	2007	RESURFACED	service dept.	\$ 11,849.04	Good
45	Regency Woods Drive (South)	Kirtland-Chardon Road	Cardinal Drive	54.7	4	0	0	3	2 Partial Depth Repair	1989	2001	RESURFACED	service dept.	\$ 25,056.00	Good
46	Loreto Ridge Drive	Billings Road	South End Culdesac	55.1	2	0	0	0	4 Mill and Fill	1990	1992	NEW	developer		Good
47	Hickory Hill Court	SR 6	South End Culdesac	56.4	3	4	0	2	2 Chip Seal	<1970	2001	RESURFACED	service dept.	\$ 4,320.00	Good
48	Kirtland-Chardon Road (South)	Sperry Road	Kirtland City Line (East)	57.0	3	0	0	3	2 Partial Depth Repair	<1970	1982	RESURFACED	contractor		Good

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
PAVEMENT EVALUATION (SORTED BY PCR RATING)

NO.	STREET NAME	LIMITS	PAVEMENT CONDITION RATING 100= BEST	RECOMMEND'S, "0" = DO NOTHING					Recommended Repair	ORIGINAL CONSTR. YEAR	PREVIOUS IMPROVEMENTS				LAST RATING
				CRACKSEAL (0-5)	ASPHALT SURFACE TREATMENT (0-5)	CONCRETE JOINT REPAIRS (0-5)	ASPHALT PATCH REPAIRS (0-5)	GRIND & OVERLAY (0-5)			YEAR	TYPE	Performed by	Material Cost	
				(0-5)	(0-5)	(0-5)	(0-5)	(0-5)							
(FROM)	(TO)														
49	Chillicothe Road (East) (aka 6)	SR 306	Kirtland City Line (East)	57.3	4	0	0	3	0 Partial Depth Repair	<1970	2000	RESURFACED	odot		Fair
50	Parkwood Drive	SR 306	Elmwood Drive	57.4	0	0	0	0	4 Mill and Fill	<1970	1992	RESURFACED	contractor		Poor
51	Eisenhower Drive	SR 306	West End Dead End	57.8	3	0	0	3	3 Partial Depth Repair	<1970	2001	RESURFACED	service dept.	\$ 7,200.00	Fair
52	Misty Hollow Lane	SR 6	North End Culdesac	57.8	4	0	0	3	2 Joint Seal	1995	1995	NEW	developer		Good
53	Valleyview Oval	Quail Circle	Quail Circle	58.0	2	0	0	3	3 Partial Depth Repair	1988	2007	RESURFACED	service dept.		Good
54	Applewood Drive	Eagle Road	Alpine Drive	58.4	0	0	0	0	3 Mill and Fill	<1970	2003	RESURFACED	service dept.	\$ 8,640.00	Good
55	Kirtland-Chardon Road (Mid)	Booth Road	Sperry Road	58.6	4	0	0	3	0 Partial Depth Repair	<1970	1982	RESURFACED	contractor		Good
56	Kirtland-Chardon Road (North)	Chillicothe Road	Booth Road	59.0	4	0	0	3	1 Partial Depth Repair	<1970	1982	RESURFACED	contractor		Good
57	Glenstone Drive	Eagle Road	North End Culdesac	59.3	3	0	0	3	1 Partial Depth Repair	<1970	2001	RESURFACED	service dept.	\$ 9,000.00	Fair
58	Angela Drive	SR 6	South End Culdesac	59.7	5	0	0	3	0 Joint Seal	1996	1997	NEW	developer		Good
59	Fairview Avenue	Elm Street	Coudry Drive	59.8	3	0	0	0	5 Mill and Fill	<1970	2006	RESURFACED	service dept.	\$ 6,713.20	Excellent
60	Coudry Street	Joseph Street	Maple Street	59.9	3	0	0	3	3 Partial Depth Repair	<1970	2006	RESURFACED	service dept.	\$ 6,146.00	Good
61	Anna Drive	SR 6	South End Culdesac	60.5	1	0	4	0	0 Full Depth Repair	2002	2003	NEW	developer		Good
62	Saxon Drive	Eisenhower Drive	Eisenhower Drive	60.8	2	0	0	0	4 Mill and Fill	<1970	2001	RESURFACED	service dept.	\$ 7,920.00	Fair
63	Amberwood Drive	Kirtland-Chardon Road	North End Culdesac	61.3	3	0	0	3	2 Partial Depth Repair	1988	1992	NEW	developer		Good
64	Kelsey Court	Worell Road	East End Culdesac	61.3	1	3	3	0	1 Asphalt Overlay	1993	1993	NEW	developer		Good
65	Blueberry Hill Drive	SR 6	South End Culdesac	61.4	3	0	0	3	1 Partial Depth Repair	1998	1998	NEW	developer		Excellent
66	Berkshire Hills Drive	Graylock Drive	Timbercreek Drive	62.0	3	0	0	4	2 Partial Depth Repair	<1970	2004	RESURFACED	service dept.	\$ 17,920.00	Good
67	Sperry Road (South)	Euclid -Chardon Road	South Kirtland City Line	62.5	3	0	0	0	0 Partial Depth Repair	<1970	2015	RESURFACED	service dept.	\$ 23,932.00	Poor
68	Eagles Nest Lane	White Oak Road	North End Culdesac	63.1	4	0	0	0	0 Partial Depth Repair	1994	1995	NEW	developer		Good
69	White Oak Road	Cradinal Drive	East End Culdesac	63.2	4	0	0	3	0 Partial Depth Repair	1993	1993	NEW	developer		Good
70	Ptarmigan Court	Pheasant Lane	West End Culdesac	63.3	4	0	0	3	1 Partial Depth Repair	1977	2007	RESURFACED	service dept.	\$ 23,136.00	Good
71	Hidden Valley Drive	Tibbets Road	West End Culdesac	63.5	2	0	0	3	1 Partial Depth Repair	<1970	2008	RESURFACED	service dept.	\$ 55,000.00	Excellent
72	Forest Edge	Booth Road	Amber Wood Drive	63.9	3	0	0	3	1 Full Depth Repair	1988	2007	RESURFACED	service dept.	\$ 18,330.00	Good
73	Maple Street	SR 306	Elm Street	64.0	4	0	0	0	3 Mill and Fill	<1970	2006	RESURFACED	service dept.	\$ 11,237.83	Good
74	Pheasant Lane	Partridge Trail	East End Culdesac	64.2	5	0	0	3	1 Full Depth Repair	1977	2007	RESURFACED	service dept.		Good
75	Woods Way Drive	Kirtland-Chardon Road	North End Culdesac	64.8	3	0	0	3	1 Partial Depth Repair	1988	2005	RESURFACED	service dept.		Fair
76	Woodhill Road	Kirtland-Chardon Road	Forestdale Drive	65.2	4	0	0	3	2 Partial Depth Repair	<1970	2002	RESURFACED	service dept.	\$ 1,750.00	Poor
77	Heath Road	SR 6	Kirtland City Line (South)	67.1	4	0	0	3	1 Partial Depth Repair	<1970	2005	RESURFACED	service dept.		Good
78	Alexander Drive	SR 306	Florence Road	67.2	4	0	0	3	1 Partial Depth Repair	<1970	1992	RESURFACED	contractor		Good
79	Charlesderry Road	Temple View Road	East End Dead End	67.2	4	0	0	0	1 Joint Seal	<1970	2007	RESURFACED	service dept.	\$ 10,846.00	Good
80	Wilbert Drive	Billings Road	South End Culdesac	67.5	3	0	0	3	0 Partial Depth Repair	<1970	2005	RESURFACED	service dept.		Poor
81	Glen Park Road	Temple View Road	East End Dead End	67.7	4	0	0	3	2 Partial Depth Repair	<1970	2007	RESURFACED	service dept.	\$ 13,735.00	Good
82	Joseph Street	SR 306	Metcalf Road	67.8	5	0	0	0	1 Joint Seal	<1970	2006	RESURFACED	service dept.	\$ 13,304.38	Good
83	Gildersleeve Circle	Gildersleeve Drive	West End Culdesac	68.7	2	0	0	0	3 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 1,500.00	Good
84	Bluff Street	Maple Street	North End Dead End	68.9	4	0	0	3	3 Partial Depth Repair	<1970	2006	RESURFACED	service dept.	\$ 2,878.00	Excellent
85	Briar Hill (2) Court	Briar Hill Drive	E-W Middle Culdesac	68.9	4	0	0	4	1 Partial Depth Repair	<1970	2005	RESURFACED	service dept.		Excellent
86	Hemlock Ridge Drive	Regency Woods Drive	East End Culdesac	68.9	3	0	0	1	0 Joint Seal	1989	2007	RESURFACED	service dept.	\$ 25,375.00	Excellent
87	Raccoon Hill Drive	Hobart Road	Loops Back Into Itself	69.5	5	0	0	0	0 Joint Seal	<1970	2005	RESURFACED	service dept.		Fair
88	Woodhawk Lane	White oak Road	South End Culdesac	69.8	4	0	0	0	0 Joint Seal	1993	1995	NEW	developer		Good
89	Walkers Lane	Rocking Horse Trail	East End Culdesac	70.0	2	0	0	2	1 Partial Depth Repair	1999	1999	NEW	developer		Excellent
90	Chapin Falls Lane	Hobart Road	West End Culdesac	70.4	3	0	0	4	2 Partial Depth Repair	1996	1998	NEW	developer		Good
91	Briar Hill (3) Court	E-W Middle Culdesac	West End Dead Culdesac	71.0	0	0	0	0	0	<1970	2005	RESURFACED	service dept.		Excellent
92	Fairidge Drive	Fairview Drive	East End Culdesac	71.0	4	0	0	0	1 Joint Seal	1980	2003	RESURFACED	service dept.	\$ 4,320.00	Excellent
93	Red Tail Lane	Cardinal Drive	North End Culdesac	71.1	5	0	0	2	0 Joint Seal	1993	1993	NEW	developer		Good
94	Kirtland Road	SR 306	Kirtland City Line (West)	71.4	4	0	0	0	2 Joint Seal	<1970	1990	RESURFACED	contractor		Poor
95	Quail Circle (West)	Partridge Trail	Circle	71.5	5	0	0	2	0 Joint Seal	1977	2007	RESURFACED	service dept.	\$ 16,362.96	Good
96	Deerfield Drive	Eagle Road	North End Culdesac	71.9	4	0	0	4	1 Partial Depth Repair	1962	2004	RESURFACED	service dept.	\$ 7,280.00	Good
97	Overlook Drive	Chillicothe Road	North End Dead End	71.9	4	0	0	0	1 Joint Seal	<1970	2001	RESURFACED	service dept.	\$ 5,040.00	Good

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
PAVEMENT EVALUATION (SORTED BY PCR RATING)

NO.	STREET NAME	LIMITS	PAVEMENT CONDITION RATING 100= BEST	RECOMMEND'S, "0" = DO NOTHING					Recommended Repair	ORIGINAL CONSTR. YEAR	PREVIOUS IMPROVEMENTS				LAST RATING	
				CRACKSEAL (0-5)	ASPHALT SURFACE TREATMENT (0-5)	CONCRETE JOINT REPAIRS (0-5)	ASPHALT PATCH REPAIRS (0-5)	GRIND & OVERLAY (0-5)			YEAR	TYPE	Performed by	Material Cost		
				(FROM)	(TO)											
98	Shaw Avenue	Kirtland-Chardon Road Thorne Avenue	72.3	2	2	0	0	3 Chip Seal	<1970	1993	RESURFACED	contractor				Poor
99	Thwing Road	SR 6 Kirtland City Line	72.4	4	0	0	0	0 Joint Seal	<1970	2013	RESURFACED	contractor				Good
100	Briar Hill (1) Drive	SR 6 North End Culdesac	73.1	3	0	0	4	1 Partial Depth Repair	<1970	2005	RESURFACED	service dept.				Excellent
101	Christina Drive	Billings Road South End Culdesac	73.8	5	0	0	0	0 Joint Seal	1994	1999	NEW	developer				Good
102	Stone Ridge Dr.	SR 6 North End Culdesac	74.2	4	0	0	0	0 Joint Seal	2005	2006	NEW	developer				Excellent
103	Euclid-Chardon Road (West)	Kirtland City Line (West) Chillicothe Road (aka SR1)	74.5	5	0	0	0	0 Joint Seal	<1970	2010	RESURFACED	ODOT				Good
104	Rocking Horse Trail	SR 6 North End Culdesac	74.9	3	0	0	4	1 Partial Depth Repair	1997	1998	NEW	developer				Good
105	Shetland Court	Rocking Horse Trail East End Culdesac	75.1	2	0	0	2	0 Partial Depth Repair	1997	1998	NEW	developer				Excellent
106	Kildeer Road	SR 6 North End Culdesac	75.2	1	0	0	0	0 No Action Required	<1970	2016	RESURFACED	contractor				Poor
107	Conley Road	SR 306 West End Dead End	75.3	4	0	0	4	1 Partial Depth Repair	<1970	2007	RESURFACED	service dept.	\$ 4,468.00			Excellent
108	Euclid-Chardon Road (Mid)	Chillicothe Road (aka SR Sperry Road)	75.7	5	0	0	0	0 Joint Seal	<1970	2010	RESURFACED	ODOT				Good
109	Foxwood Trail	Eagle Road South End Culdesac	75.8	5	0	0	0	0 Joint Seal	2000	2001	NEW	developer				Excellent
110	Dewey(Gem) Rd.	Sperry Road Heath Road	76.2	3	0	0	4	0 Partial Depth Repair	<1970	1991	RESURFACED	contractor				Good
111	Partridge Trail	Eagle Road Pheasant Lane	76.2	4	0	0	4	0 Partial Depth Repair	1977	2007	RESURFACED	service dept.				Good
112	Euclid-Chardon Road (East)	Sperry Road Kirtland City Line (East)	76.5	5	0	0	3	0 Joint Seal	<1970	2010	RESURFACED	ODOT				Good
113	Garfield Road	Chillicothe Road Kirtland City Line (North)	76.5	3	0	0	4	0 Partial Depth Repair	<1970	2000	RESURFACED	service dept.	issue 2			Excellent
114	Cardinal Drive	Regency Woods Drive Kirtland City Line	76.6	5	0	0	3	0 Partial Depth Repair	1993	1993	NEW	developer				Good
115	Hobart Road	SR 6 Kirtland City Line (North)	77.7	3	0	0	3	0 Partial Depth Repair	<1970	2002	RESURFACED	service dept.	\$ 31,500.00			Good
116	Bayshire Trail	SR 6 Walkers Lane	77.7	1	0	0	0	0 Joint Seal	2000	2000	NEW	developer				Excellent
117	Ascot Place	Rocking Horse Trail West End Culdesac	77.9	4	0	0	0	0 Joint Seal	1997	1998	NEW	developer				Excellent
118	Gaitside Trail	Walkers Lane North End Culdesac	78.2	4	0	0	0	0 Joint Seal	2003	2003	NEW	developer				Excellent
119	Courtney Lane	Billings Road North End Culdesac	78.8	4	0	0	0	0 Joint Seal	2005	2005	NEW	developer				Excellent
120	Oakwood Drive	Beechwood Drive Crestwood Drive	79.0	0	0	0	2	0 Partial Depth Repair	<1970	1992	RESURFACED	contractor				Fair
121	Sugarhouse Hill Court	Stone Ridge Drive North End Culdesac	79.4	4	0	0	0	0 Joint Seal	2005	2006	NEW	developer				Excellent
122	Giuliano Drive	Anna Drive West End Culdesac	79.6	1	0	3	0	0 Full Depth Repair	2002	2003	RESURFACED	developer				Excellent
123	Robin Lane	White Oak Road South End Culdesac	79.8	4	0	0	0	0 Joint Seal	1994	1995	NEW	developer				Good
124	Templeview Road	SR 306 Charlesderry Road	79.9	3	0	0	0	0 Joint Seal	<1970	2007	RESURFACED	service dept.				Fair
125	Eagle Road (East)	SR 306 Kirtland-Chardon Road	81.3	2	0	0	0	0 Joint Seal	<1970	2016	RESURFACED	service dept.	\$ 61,600.00			Fair
126	Strumbly Glen Lane	Orchard Drive North End Culdesac	83.4	3	0	0	0	0 Joint Seal	2006	2006	NEW	developer				Excellent
127	Quarry View Lane	Strumbly Glenn Lane East End Culdesac	84.2	3	0	0	0	0 Joint Seal	2006	2006	NEW	developer				Poor
128	Tibbetts Road	SR 6 Kirtland City Line	84.7	1	0	0	0	0 No Action Required	<1970	2011	RESURFACED	service dept.				Excellent
129	Orchard Dr.	Hobart Road South End Culdesac	85.5	3	0	0	0	0 Joint Seal	2006	2006	NEW	developer				Excellent
130	Eagle Creek Court	Foxwood Trail West End Culdesac	85.8	3	0	0	0	0 Joint Seal	2006	2007	NEW	Developer				Excellent
131	Chillicothe Road (North) (aka Kirtland City Line (North))	1,100 south of Clocktower	86.2	2	0	0	0	0 Joint Seal	<1970	2000	RESURFACED	odot				Fair
132	Barristers court	SR 306 West End Culdesac	86.7	2	0	0	0	0 Joint Seal	2002	2002	NEW	developer				Excellent
133	Kirtland Lake Boulevard	Thwing Road Woodlake Drive	88.9	2	0	0	0	0 Joint Seal	1989	2017	RESURFACED	service dept.				Poor
134	Sperry Road (North)	Kirtland-Chardon Road Euclid -Chardon Road	90.2	0	0	0	0	0 No Action Required	<1970	2015	RESURFACED	service dept.	\$ 53,268.00			Poor
135	Woodlake Drive	Kirtland Lakes Boulevard West End Culdesac	90.3	2	0	0	0	0 Joint Seal	1990	2017	RESURFACED	service dept.				Good
136	Martin Road	Booth Road East End Dead End	91.5	1	0	0	0	0 No Action Required	<1970	2017	RESURFACED	service dept.				Poor
137	Wrenwood Drive	Eagle Road North End Dead End	91.5	0	0	0	0	0 No Action Required	<1970	2017	RESURFACED	contractor				Poor
138	Lake Brook Drive	Kirtland Lakes Boulevard Woodlake Drive	92.1	2	0	0	0	0 Joint Seal	1990	2017	RESURFACED	service dept.				Poor
139	Worrell Road	SR 6 Kirtland City Line (South)	93.2	1	0	0	0	0 No Action Required	<1970	2016	RESURFACED	service dept.	\$ 22,400.00			Poor
140	Woodcroft Court	Pinehurst Drive South End Culdesac	93.7	1	0	0	0	0 No Action Required	1996	2017	NEW	developer				Good
141	Pinehurst Drive	SR 306 West End Culdesac	94.2	0	0	0	0	0 No Action Required	1996	2017	RESURFACED	developer				Poor
142	Eagle Road (West)	SR 306 Kirtland City Line	95.6	0	0	0	0	0 No Action Required	<1970	2017	RESURFACED	service dept.	\$ 22,000.00			Fair
143	Alpenrose Drive	SR 306 West End Culdesac	98.0	0	0	0	0	0 No Action Required	2013	2013	NEW	developer				Excellent
144	Singlefoot Trail	Booth Road West End Culdesac	99.6	0	0	0	0	0 No Action Required	1977	2018	NEW	developer				Poor
145	Chillicothe Road (South) (aka S 1,100 south of Clocktowe)	Kirtland City Line (South)	100.0	0	0	0	0	0 No Action Required	<1970	2018	RESURFACED	odot				Fair
146	Arborhurst Drive	Booth Road East End Culdesac	100.0	0	0	0	0	0 No Action Required	1977	2004	RESURFACED	service dept.	\$ 14,340.00			Good

**CITY OF KIRTLAND
PAVEMENT EVALUATION**

**APPENDIX A
BUDGETARY PROJECT COSTS FOR VARIOUS RECOMMENDED IMPROVEMENT OPTIONS (SORTED BY PCR RATING)**

NO.	STREET NAME	LIMITS		EXISTING PAVEMENT TYPE	CRACK SEALING			ASPHALT SUFACE TREAT APPROX. COST / S.Y. @ \$12.00	CONCRETE JOINT REPAIR APPROX. COST / S.Y. @ \$115.00	ASPHALT PATCH REPAIRS (t = 1") APPROX. COST / S.Y. @ \$20.00	GRIND / OVERLAY APPROX. COST / S.Y. @ \$40.00	COMPLETE PAVEMENT REPLACEMENT							
					APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	PAVE. (S.Y.)					PAVE. TYPE	Conc.= Stone = \$ 125.00 \$ 50.00	APPROX. COST					
		(FROM)	(TO)		(FT.)	(FT.)	(S.Y.)												
1	Springer Drive	SR 306	South End Culdesac	Asphalt	2112	24	6168	0.50	654	\$0	\$0	6.3%	\$0	40%	\$0	\$246,700	Asphalt	115.00	\$709,300
2	Booth Road	Eagle Road East	Kirtland City Line	Asphalt	6825	20	15396	1.00	816	\$0	\$0	6.3%	\$0	40%	\$0	\$615,800	Asphalt	115.00	\$1,770,500
3	Springer Circle	Springer Drive	West End Culdesac	Asphalt	200	24	1191	0.50	126	\$0	\$0	6.3%	\$0	30%	\$0	\$47,600	Asphalt	115.00	\$137,000
4	Wisner Road	SR 6	Kirtland-Chardon Road	Asphalt	7709	20	17180	0.50	1821	\$0	\$0	6.3%	\$0	40%	\$0	\$687,200	Asphalt	115.00	\$1,975,700
5	Wisner Road (North)	Kirtland-Chardon Road	Kirtland City Line (East)	Asphalt	240	20	582	0.50	62	\$0	\$0	6.3%	\$0	5%	\$0	\$23,300	Asphalt	115.00	\$67,000
6	Monterey Avenue	SR 306	West End Culdesac	Asphalt	2100	22	5539	0.50	587	\$7,000	\$0	6.3%	\$0	40%	\$0	\$221,600	Asphalt	115.00	\$637,000
7	Mitchell Mills Road	Sperry Road	Kirtland City Line (East)	Tar & Chip	920	18	1870	0.50	198	\$0	\$0	6.3%	\$0	40%	\$0	\$74,800	Tar & Chip	115.00	\$215,000
8	Bridlehurst Trail	SR 306	East End Culdesac	Asphalt	4277	22	11167	1.00	592	\$7,100	\$0	6.3%	\$0	40%	\$89,300	\$446,700	Asphalt	115.00	\$1,284,200
9	Emerald Glen Court	SR 306	East End Culdesac	Concrete	2300	24	6794	N/A	0	\$0	\$0	62.1%	\$485,200	5%	\$0	\$271,800	Concrete	125.00	\$849,300
10	Prelog Lane	Sperry Road	West End Culdesac	Asphalt	1584	24	6127	0.50	649	\$0	\$0	6.3%	\$0	40%	\$0	\$245,100	Asphalt	115.00	\$704,600
11	Billings Road	SR 306	Sperry Road	Asphalt	10771	19	22932	0.50	2431	\$0	\$0	6.3%	\$0	30%	\$137,600	\$917,300	Asphalt	115.00	\$2,637,200
12	Beechwood Drive	Parkwood Drive	Oakwood Drive	Asphalt	2851	17	5385	0.50	571	\$0	\$0	6.3%	\$0	20%	\$0	\$215,400	Asphalt	115.00	\$619,300
13	Highland Court	Hillcrest Road	West End Dead End	Asphalt	685	20	1557	0.50	165	\$0	\$0	6.3%	\$0	30%	\$0	\$62,300	Asphalt	115.00	\$179,100
14	Markell Road	SR 306	Kirtland City Line (West)	Asphalt	1300	18	2697	0.50	286	\$3,400	\$0	6.3%	\$0	40%	\$0	\$107,900	Asphalt	115.00	\$310,100
15	Locust Drive	SR 306	SR 306	Asphalt	4163	16	7436	0.50	788	\$9,500	\$0	6.3%	\$0	30%	\$0	\$297,400	Asphalt	115.00	\$855,100
16	Fox Hill Drive	Kirtland-Chardon Road	North End Culdesac	Asphalt	1267	20	3590	0.50	381	\$0	\$0	6.3%	\$0	30%	\$0	\$143,600	Asphalt	115.00	\$412,800
17	Timbercreek Drive	Berkshire Hills Drive	North End Culdesac	Asphalt	845	18	1852	0.50	196	\$0	\$0	6.3%	\$0	20%	\$0	\$74,100	Asphalt	115.00	\$212,900
18	Grandview Drive	SR 6	North End Culdesac	Asphalt	1478	24	4460	0.50	473	\$0	\$0	6.3%	\$0	30%	\$0	\$178,400	Asphalt	115.00	\$512,900
19	Hillcrest Road	Billings Road	North End Dead End	Asphalt	2000	20	4477	0.50	475	\$0	\$0	6.3%	\$0	30%	\$0	\$179,100	Asphalt	115.00	\$514,800
20	Gildersleeve Drive	SR 6	East End Dead End	Asphalt	3500	18	7043	0.50	747	\$9,000	\$0	6.3%	\$0	40%	\$56,300	\$281,700	Asphalt	115.00	\$809,900
21	Forestdale Road	North End Culdesac	South End Culdesac	Asphalt	2800	18	5660	0.50	600	\$7,200	\$0	6.3%	\$0	30%	\$0	\$226,400	Asphalt	115.00	\$650,800
22	Longview Drive	Graylock Drive	North End Culdesac	Asphalt	1373	18	2863	0.50	303	\$3,600	\$0	6.3%	\$0	30%	\$0	\$114,500	Asphalt	115.00	\$329,300
23	Palomino Trail	Bridlehurst Trail	West End Culdesac	Asphalt	2323	24	6945	0.50	736	\$8,800	\$0	6.3%	\$0	20%	\$27,800	\$277,800	Asphalt	115.00	\$798,600
24	Crestwood Drive (North)	Beechwood Drive	275' S. of Oakwood Dr.	Asphalt	1640	21	3870	1.00	205	\$0	\$0	6.3%	\$0	30%	\$0	\$154,800	Asphalt	115.00	\$445,000
25	Shadowbrook Drive	Hobart Road	West End Culdesac	Asphalt	3115	20	7481	1.00	396	\$0	\$0	6.3%	\$0	30%	\$0	\$299,200	Asphalt	115.00	\$860,300
26	Elm Street	South End Dead End	North End Dead End	Asphalt	2060	20	4578	1.00	243	\$2,900	\$0	6.3%	\$0	30%	\$0	\$183,100	Asphalt	115.00	\$526,400
27	Alpine Drive	Eagle Road	Eagle Road	Asphalt	3235	19	6904	0.50	732	\$0	\$0	6.3%	\$0	30%	\$0	\$276,200	Asphalt	115.00	\$794,000
28	Regency Woods Drive (North)	Cardinal Drive	Riverwood Way / Westwood	Asphalt	2660	22	6564	1.00	348	\$4,200	\$0	6.3%	\$0	30%	\$0	\$262,600	Asphalt	115.00	\$754,900
29	Westwood Road	Forestdale Drive	Riverwood Way	Asphalt	1245	20	2840	0.50	301	\$3,600	\$0	6.3%	\$0	30%	\$0	\$113,600	Asphalt	115.00	\$326,600
30	Far Bar Road	Crary Lane	East End Culdesac	Asphalt	1160	19	2679	0.50	284	\$3,400	\$0	6.3%	\$0	20%	\$0	\$107,200	Asphalt	115.00	\$308,100
31	Rockwood Drive	SR 6	South End Culdesac	Asphalt	2000	24	5982	0.50	634	\$7,600	\$0	6.3%	\$0	30%	\$0	\$239,300	Asphalt	115.00	\$687,900
32	Crary Lane	SR 6	Far Bar Road	Asphalt	1450	18	2943	1.00	156	\$0	\$0	6.3%	\$0	30%	\$0	\$117,700	Asphalt	115.00	\$338,400
33	Riverwood Way	Westwood Road	North End Culdesac	Asphalt	2500	22	7074	0.50	750	\$9,000	\$0	6.3%	\$0	40%	\$0	\$283,000	Asphalt	115.00	\$813,500
34	Ledgewood Drive	Rockwood Drive	West End Culdesac	Asphalt	1525	20	4149	1.00	220	\$0	\$0	6.3%	\$0	30%	\$0	\$166,000	Asphalt	115.00	\$477,100
35	Florence Road	Alexander Road	North End Dead End	Asphalt	535	12	766	0.50	81	\$1,000	\$0	6.3%	\$0	20%	\$0	\$30,600	Asphalt	115.00	\$88,100
36	Russelhurst Drive	SR 306	West End Culdesac	Asphalt	2400	20	5596	1.00	297	\$3,600	\$0	6.3%	\$0	30%	\$33,600	\$223,900	Asphalt	115.00	\$643,600
37	Appaloosa Trail	Bridlehurst Trail	East End Culdesac	Asphalt	950	23	2486	0.											

**CITY OF KIRTLAND
PAVEMENT EVALUATION**

**APPENDIX A
BUDGETARY PROJECT COSTS FOR VARIOUS RECOMMENDED IMPROVEMENT OPTIONS (SORTED BY PCR RATING)**

NO.	STREET NAME	LIMITS (FROM) (TO)	APPROX. AVG. PAVE. EXISTING				CRACK SEALING APPROX. RATE MI / 750 GAL	SUFACE TREAT APPROX. GALLONS \$12.00	ASPHALT COST / S.Y. @ \$12.00	CONCRETE APPROX. AREA %	ASPHALT PATCH APPROX. AREA %	COMPLETE PAVEMENT				
			LENGTH (FT.)	WIDTH (FT.)	AREA (S.Y.)	PAVEMENT TYPE						APPROX. COST / S.Y. @ \$115.00	APPROX. COST / S.Y. @ \$20.00	APPROX. COST / S.Y. @ \$40.00		
													REPL. Asph.= \$115.00	REPL. Conc.= \$125.00	REPL. Stone = \$50.00	
49	Chillicothe Road (East) (aka 615)	SR 306 Kirtland City Line (East)	3930	28	13109	Asphalt	0.50	1390	\$16,700	\$0	6.3%	\$0	20%	\$52,400	\$0	Asphalt 115.00 \$1,507,500
50	Parkwood Drive	SR 306 Elmwood Drive	580	20	1321	Asphalt	1.00	70	\$0	\$0	6.3%	\$0	30%	\$0	\$52,800	Asphalt 115.00 \$151,900
51	Eisenhower Drive	SR 306 West End Dead End	1056	20	2390	Asphalt	0.50	253	\$3,000	\$0	6.3%	\$0	20%	\$9,600	\$95,600	Asphalt 115.00 \$274,800
52	Misty Hollow Lane	SR 6 North End Culdesac	1575	24	4843	Asphalt	0.50	513	\$6,200	\$0	6.3%	\$0	20%	\$19,400	\$193,700	Asphalt 115.00 \$556,900
53	Valleyview Oval	Quail Circle Quail Circle	320	24	928	Asphalt	0.50	98	\$1,200	\$0	6.3%	\$0	20%	\$3,700	\$37,100	Asphalt 115.00 \$106,700
54	Applewood Drive	Eagle Road Alpine Drive	1100	19	2352	Asphalt	0.50	249	\$0	\$0	6.3%	\$0	30%	\$0	\$94,100	Asphalt 115.00 \$270,500
55	Kirtland-Chardon Road (Mid)	Booth Road Sperry Road	7250	22	17765	Asphalt	0.50	1883	\$22,600	\$0	6.3%	\$0	30%	\$106,600	\$0	Asphalt 115.00 \$2,043,000
56	Kirtland-Chardon Road (North)	Chillicothe Road Booth Road	11560	22	29104	Asphalt	0.50	3085	\$37,000	\$0	6.3%	\$0	20%	\$116,400	\$1,164,200	Asphalt 115.00 \$3,346,900
57	Glenstone Drive	Eagle Road North End Culdesac	1325	20	3163	Asphalt	1.00	168	\$2,000	\$0	6.3%	\$0	30%	\$19,000	\$126,500	Asphalt 115.00 \$363,700
58	Angela Drive	SR 6 South End Culdesac	3430	25	10219	Asphalt	0.50	1083	\$13,000	\$0	6.3%	\$0	30%	\$61,300	\$0	Asphalt 115.00 \$1,175,200
59	Fairview Avenue	Elm Street Coudry Drive	900	20	2086	Asphalt	1.00	111	\$1,300	\$0	6.3%	\$0	20%	\$0	\$83,400	Asphalt 115.00 \$239,900
60	Coudry Street	Joseph Street Maple Street	716	17	1620	Asphalt	1.00	86	\$1,000	\$0	6.3%	\$0	30%	\$9,700	\$64,800	Asphalt 115.00 \$186,300
61	Anna Drive	SR 6 South End Culdesac	1020	24	2769	Concrete	2.00	75	\$900	\$0	25.1%	\$79,900	5%	\$0	\$0	Concrete 125.00 \$346,100
62	Saxon Drive	Eisenhower Drive Eisenhower Drive	1300	20	2987	Asphalt	0.50	317	\$3,800	\$0	6.3%	\$0	20%	\$0	\$119,500	Asphalt 115.00 \$343,500
63	Amberwood Drive	Kirtland-Chardon Road North End Culdesac	4961	21	11634	Asphalt	1.00	617	\$7,400	\$0	6.3%	\$0	20%	\$46,500	\$465,400	Asphalt 115.00 \$1,337,900
64	Kelsey Court	Worell Road East End Culdesac	480	24	1955	Concrete	N/A	0	\$0	\$23,500	25.1%	\$56,400	5%	\$0	\$78,200	Concrete 125.00 \$244,300
65	Blueberry Hill Drive	SR 6 South End Culdesac	2100	24	6249	Asphalt	0.50	662	\$7,900	\$0	6.3%	\$0	30%	\$37,500	\$249,900	Asphalt 115.00 \$718,600
66	Berkshire Hills Drive	Graylock Drive Timbercreek Drive	1689	19	3624	Asphalt	0.50	384	\$4,600	\$0	6.3%	\$0	20%	\$14,500	\$145,000	Asphalt 115.00 \$416,800
67	Sperry Road (South)	Euclid -Chardon Road South Kirtland City Line	3200	22	8082	Asphalt	1.00	428	\$5,100	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt 115.00 \$929,500
68	Eagles Nest Lane	White Oak Road North End Culdesac	1190	22	4806	Asphalt	1.00	255	\$3,100	\$0	6.3%	\$0	20%	\$0	\$0	Asphalt 115.00 \$552,700
69	White Oak Road	Cradinal Drive East End Culdesac	3176	24	9012	Asphalt	1.00	478	\$5,700	\$0	6.3%	\$0	20%	\$36,000	\$0	Asphalt 115.00 \$1,036,400
70	Ptarmigan Court	Pheasant Lane West End Culdesac	1003	24	3431	Asphalt	1.00	182	\$2,200	\$0	6.3%	\$0	20%	\$13,700	\$137,200	Asphalt 115.00 \$394,500
71	Hidden Valley Drive	Tibbets Road West End Culdesac	2165	20	5356	Asphalt	1.00	284	\$3,400	\$0	6.3%	\$0	20%	\$21,400	\$214,300	Asphalt 115.00 \$616,000
72	Forest Edge	Booth Road Amber Wood Drive	1090	21	2696	Asphalt	1.00	143	\$1,700	\$0	6.3%	\$0	10%	\$5,400	\$107,800	Asphalt 115.00 \$310,100
73	Maple Street	SR 306 Elm Street	1584	20	3606	Asphalt	1.00	191	\$2,300	\$0	6.3%	\$0	30%	\$0	\$144,200	Asphalt 115.00 \$414,700
74	Pheasant Lane	Partridge Trail East End Culdesac	1580	22	4490	Asphalt	1.00	238	\$2,900	\$0	6.3%	\$0	20%	\$18,000	\$179,600	Asphalt 115.00 \$516,400
75	Woods Way Drive	Kirtland-Chardon Road North End Culdesac	1000	24	3704	Asphalt	1.00	196	\$2,400	\$0	6.3%	\$0	10%	\$7,400	\$148,200	Asphalt 115.00 \$425,900
76	Woodhill Road	Kirtland-Chardon Road Forestdale Drive	480	18	1129	Asphalt	0.50	120	\$1,400	\$0	6.3%	\$0	20%	\$4,500	\$45,100	Asphalt 115.00 \$129,800
77	Heath Road	SR 6 Kirtland City Line (South)	2693	20	6070	Asphalt	1.00	322	\$3,900	\$0	6.3%	\$0	20%	\$24,300	\$242,800	Asphalt 115.00 \$698,100
78	Alexander Drive	SR 306 Florence Road	390	24	1137	Asphalt	0.50	120	\$1,400	\$0	6.3%	\$0	20%	\$4,500	\$45,500	Asphalt 115.00 \$130,700
79	Charlesderry Road	Temple View Road East End Dead End	1060	20	2373	Asphalt	1.00	126	\$1,500	\$0	6.3%	\$0	10%	\$0	\$94,900	Asphalt 115.00 \$272,900
80	Wilbert Drive	Billings Road South End Culdesac	2050	18	4344	Asphalt	2.00	117	\$1,400	\$0	6.3%	\$0	20%	\$17,400	\$0	Asphalt 115.00 \$499,500
81	Glen Park Road	Temple View Road East End Dead End	1100	20	2444	Asphalt	1.00	130	\$1,600	\$0	6.3%	\$0	10%	\$4,900	\$97,800	Asphalt 115.00 \$281,100
82	Joseph Street	SR 306 Metcalf Road	1891	20	4353	Asphalt	1.00	231	\$2,800	\$0	6.3%	\$0	20%	\$0	\$174,100	Asphalt 115.00 \$500,600
83	Gildersleeve Circle	Gildersleeve Drive West End Culdesac	280	18	722	Asphalt	1.00	38	\$500	\$0	6.3%	\$0	20%	\$0	\$28,900	Asphalt 115.00 \$83,000
84	Bluff Street	Maple Street North End Dead End	405	18	829	Asphalt	0.50	88	\$1,100	\$0	6.3%	\$0	10%	\$1,700	\$33,200	Asphalt 115.00 \$95,300
85	Briar Hill (2) Court	Briar Hill Drive E-W Middle Culdesac	1400	20	3329	Asphalt	0.50	353	\$4,200	\$0	6.3%	\$0	20%	\$13,300	\$133,200	Asphalt 115.00 \$382,900
86	Hemlock Ridge Drive	Regency Woods Drive East End Culdesac	1950	22	5798	Asphalt	1.00	307	\$3,700	\$0	6.3%	\$0	10%	\$11,600	\$0	Asphalt 115.00 \$666,800
87	Raccoon Hill Drive	Hobart Road Loops Back Into Itself	4900	20	10949	Asphalt	0.50	1161	\$13,900	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt 115.00 \$1,259,100
88	Woodhawk Lane	White oak Road South End Culdesac	1112	24	4936	Asphalt	1.00	262	\$3,100	\$0</td						

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX A
BUDGETARY PROJECT COSTS FOR VARIOUS RECOMMENDED IMPROVEMENT OPTIONS (SORTED BY PCR RATING)

NO.	STREET NAME	LIMITS		EXISTING PAVEMENT	CRACK SEALING			ASPHALT SUFACE TREAT APPROX.	CONCRETE		ASPHALT PATCH		GRIND / OVERLAY APPROX.	COMPLETE PAVEMENT					
					APPROX. LENGTH	AVG. WIDTH	PAVE. AREA (S.Y.)		APPROX. RATE MI / 750 GAL	APPROX. QUANTITY GALLONS	COST / GAL. \$12.00	APPROX. COST / S.Y. @ \$12.00	APPROX. AREA %	APPROX. COST / S.Y. @ \$115.00	APPROX. AREA %	APPROX. COST / S.Y. @ \$20.00	APPROX. COST / S.Y. @ \$40.00	REPL. PAVE.	Asph.= Conc.= Stone =
		(FROM)	(TO)		(FT.)	(FT.)	(S.Y.)												
98	Shaw Avenue	Kirtland-Chardon Road	Thorne Avenue	Asphalt	417	22	1123	1.00	60	\$700	\$13,500	6.3%	\$0	20%	\$0	\$44,900	Asphalt	115.00	\$129,200
99	Thwing Road	SR 6	Kirtland City Line	Asphalt	475	22	1254	0.50	133	\$1,600	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$144,200
100	Briar Hill (1) Drive	SR 6	North End Culdesac	Asphalt	1520	22	4048	0.50	429	\$5,100	\$0	6.3%	\$0	20%	\$16,200	\$161,900	Asphalt	115.00	\$465,600
101	Christina Drive	Billings Road	South End Culdesac	Asphalt	1930	24	5732	0.50	608	\$7,300	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$659,200
102	Stone Ridge Dr.	SR 6	North End Culdesac	Asphalt	1618	18	3951	0.50	419	\$5,000	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$454,400
103	Euclid-Chardon Road (West)	Kirtland City Line (West)	Chillicothe Road (aka SR30)	Asphalt	11665	25	33292	0.50	3529	\$42,300	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$3,828,600
104	Rocking Horse Trail	SR 6	North End Culdesac	Asphalt	2560	22	6934	2.00	187	\$2,200	\$0	6.3%	\$0	20%	\$27,700	\$277,400	Asphalt	115.00	\$797,500
105	Shetland Court	Rocking Horse Trail	East End Culdesac	Asphalt	500	22	1902	2.00	51	\$600	\$0	6.3%	\$0	10%	\$3,800	\$0	Asphalt	115.00	\$218,700
106	Kildeer Road	SR 6	North End Culdesac	Tar & Chip	950	20	2319	0.50	246	\$2,900	\$0	6.3%	\$0	5%	\$0	\$0	Tar & Chip	115.00	\$266,700
107	Conley Road	SR 306	West End Dead End	Asphalt	400	17	768	0.50	81	\$1,000	\$0	6.3%	\$0	10%	\$1,500	\$30,700	Asphalt	115.00	\$88,300
108	Euclid-Chardon Road (Mid)	Chillicothe Road (aka SR30)	Sperry Road	Asphalt	9900	25	28266	0.50	2996	\$36,000	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$3,250,600
109	Foxwood Trail	Eagle Road	South End Culdesac	Asphalt	959	20	2840	1.00	151	\$1,800	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$326,600
110	Dewey(Gem) Rd.	Sperry Road	Heath Road	Asphalt	1584	20	3618	2.00	98	\$1,200	\$0	6.3%	\$0	10%	\$7,200	\$0	Asphalt	115.00	\$416,100
111	Partridge Trail	Eagle Road	Pheasant Lane	Asphalt	1730	24	4710	1.00	250	\$3,000	\$0	6.3%	\$0	10%	\$9,400	\$0	Asphalt	115.00	\$541,700
112	Euclid-Chardon Road (East)	Sperry Road	Kirtland City Line (East)	Asphalt	5050	25	15204	0.50	1612	\$19,300	\$0	6.3%	\$0	10%	\$30,400	\$0	Asphalt	115.00	\$1,748,500
113	Garfield Road	Chillicothe Road	Kirtland City Line (North)	Asphalt	4330	22	10612	2.00	287	\$3,400	\$0	6.3%	\$0	10%	\$21,200	\$0	Asphalt	115.00	\$1,220,400
114	Cardinal Drive	Regency Woods Drive	Kirtland City Line	Asphalt	2500	24	6713	1.00	356	\$4,300	\$0	6.3%	\$0	10%	\$13,400	\$0	Asphalt	115.00	\$771,900
115	Hobart Road	SR 6	Kirtland City Line (North)	Asphalt	6286	20	14018	2.00	378	\$4,500	\$0	6.3%	\$0	10%	\$28,000	\$0	Asphalt	115.00	\$1,612,000
116	Bayshire Trail	SR 6	Walkers Lane	Asphalt	1030	22	2594	2.00	70	\$800	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$298,300
117	Ascot Place	Rocking Horse Trail	West End Culdesac	Asphalt	550	25	2184	2.00	59	\$700	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$251,200
118	Gaitside Trail	Walkers Lane	North End Culdesac	Asphalt	2000	22	5517	0.50	585	\$7,000	\$0	6.3%	\$0	5%	\$0	\$0	Asphalt	115.00	\$634,400
119	Courtney Lane	Billings Road	North End Culdesac	Asphalt	1228	18	3082	0.50	327	\$3,900	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$354,400
120	Oakwood Drive	Beechwood Drive	Crestwood Drive	Asphalt	580	18	1203	0.50	128	\$0	\$0	6.3%	\$0	10%	\$2,400	\$0	Asphalt	115.00	\$138,300
121	Sugarhouse Hill Court	Stone Ridge Drive	North End Culdesac	Asphalt	222	18	1178	1.00	62	\$700	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$135,500
122	Giuliano Drive	Anna Drive	West End Culdesac	Concrete	360	24	2825	N/A	0	\$0	\$0	12.5%	\$40,600	5%	\$0	\$0	Concrete	125.00	\$353,100
123	Robin Lane	White Oak Road	South End Culdesac	Asphalt	1040	24	4656	1.00	247	\$3,000	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$535,400
124	Templeview Road	SR 306	Charlesderry Road	Asphalt	180	22	483	1.00	26	\$300	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$55,500
125	Eagle Road (East)	SR 306	Kirtland-Chardon Road	Asphalt	8131	22	20110	2.00	543	\$6,500	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$2,312,600
126	Strumbly Glen Lane	Orchard Drive	North End Culdesac	Asphalt	1854	18	4495	0.50	477	\$5,700	\$0	6.3%	\$0	5%	\$0	\$0	Asphalt	115.00	\$517,000
127	Quarry View Lane	Strumbly Glenn Lane	East End Culdesac	Asphalt	1060	18	2901	0.50	308	\$3,700	\$0	6.							

APPENDIX B
STREET INVENTORY, PCR VALUE, RECOMMENDATION AND
BUDGETARY PROJECT COSTS –
SORTED ALPHABETICALLY

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX B
STREET INVENTORY (SORTED ALPHABETICALLY)

2018 PCR RANK NO.	STREET NAME	LIMITS (FROM) (TO)		ROW WIDTH (FT.)	ROAD TYPE	WARD	PAVEMENT DIMENSIONS				DRIVE APRONS			CURB TYPE	GUARDRAIL LENGTH (FT.)	STRIPING	EXISTING PAVEMENT STRUCTURE				
							APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	ADD'L AREA (S.Y.)	PAVE. AREA (S.Y.)	Avg. Length (FT.)	Avg. Width (FT.)	Area (S.F.)				SUBBASE TYPE	BASE TYPE	SURFACE TYPE		
		(FT.)	(FT.)				(FT.)	(FT.)	(S.Y.)	(S.Y.)	(FT.)	(FT.)	(S.F.)				TYPE	(FT.)			
78	Alexander Drive	SR 306	Florence Road	35	Local	1	390	24	97	1,137	3	8	53	1,215	NONE	0			Clay & Stone	Tar & Chip	Asphalt
143	Alpenrose Drive	SR 306	West End Culdesac	50	Local	1	1,120	21	723	3,337	4	11	19	836	VERTICAL	2240			Cement Treated	Stone	Concrete
27	Alpine Drive	Eagle Road	Eagle Road	50	Local	2	3,235	19	75	6,904	32	8	17	4,352	NONE	0			Clay & Stone	Tar & Chip	Asphalt
63	Amberwood Drive	Kirtland-Chardon Road	North End Culdesac	60	Local	2	4,961	21	59	11,634	38	8	17	5,168	NONE	0			Clay	Asphalt over Clay	Asphalt
58	Angela Drive	SR 6	South End Culdesac	60	Local	3	3,430	25	691	10,219	32	9	20	5,760	NONE	0			Clay	Asphalt over Clay	Asphalt
61	Anna Drive	SR 6	South End Culdesac	60	Local	3	1,020	24	49	2,769	4	11	17	748	NONE	0			Clay	Stone	Concrete
37	Appaloosa Trail	Birdlehurst Trail	East End Culdesac	60	Local	4	950	23	59	2,486	10	7	11	770	NONE	0			Clay	Asphalt over Clay	Asphalt
54	Applewood Drive	Eagle Road	Alpine Drive	60	Local	2	1,100	19	30	2,352	5	8	17	680	NONE	0			Clay & Stone	Tar & Chip	Asphalt
146	Arborhurst Drive	Booth Road	East End Culdesac	60	Local	2	850	25	84	2,445	9	10	17	1,530	VERTICAL	1700			Clay & Stone	Concrete	Asphalt
117	Ascot Place	Rocking Horse Trail	West End Culdesac	60	Local	4	550	25	656	2,184	10	10	13	1,300	VERTICAL	1100			Cement Treated	Stone	Asphalt
132	Barristers court	SR 306	West End Culdesac	60	Local	1	1,100	23	682	3,493	11	10	15	1,650	VERTICAL	2200			Cement Treated	Stone	Asphalt
116	Bayshire Trail	SR 6	Walkers Lane	60	Local	4	1,030	22	76	2,594	10	11	19	2,090	VERTICAL	2060			Cement Treated	Stone	Asphalt
12	Beechwood Drive	Parkwood Drive	Oakwood Drive	50	Local	3	2,851	17	0	5,385	28	11	18	5,544	NONE	0			Clay & Stone	Tar & Chip	Asphalt
66	Berkshire Hills Drive	Graylock Drive	Timbercreek Drive	50	Local	3	1,689	19	59	3,624	15	11	15	2,475	NONE	0			Clay & Stone	Tar & Chip	Asphalt
11	Billings Road	SR 306	Sperry Road	60	Collector	4	10,771	19	194	22,932	96	13	20	24,960	NONE	0	181	yes	Clay & Stone	Tar & Chip	Asphalt
65	Blueberry Hill Drive	SR 6	South End Culdesac	60	Local	3	2,100	24	649	6,249	28	10	22	6,160	NONE	0			Clay	Asphalt over Clay	Asphalt
84	Bluff Street	Maple Street	North End Dead End	40	Local	1	405	18	19	829	6	11	17	1,122	NONE	0			Clay & Stone	Tar & Chip	Asphalt
2	Booth Road	Eagle Road East	Kirtland City Line	60	Collector	2	6,825	20	229	15,396	23	10	35	8,050	NONE	0	360	yes	Clay & Stone	Tar & Chip	Asphalt
100	Briar Hill (1) Drive	SR 6	North End Culdesac	50	Local	3	1,520	22	333	4,048	30	11	17	5,610	NONE	0			Clay & Stone	Tar & Chip	Asphalt
85	Briar Hill (2) Court	Briar Hill Drive	E-W Middle Culdesac	50	Local	3	1,400	20	218	3,329	4	11	17	748	NONE	0			Clay & Stone	Tar & Chip	Asphalt
91	Briar Hill (3) Court	E-W Middle Culdesac	West End Dead Culdesac	50	Local	3	510	20	77	1,210	4	11	17	748	NONE	0			Clay & Stone	Tar & Chip	Asphalt
8	Bridlehurst Trail	SR 306	East End Culdesac	60	Collector	4	4,277	22	712	11,167	40	12	20	9,600	NONE	0			Clay	Asphalt over Clay	Asphalt
114	Cardinal Drive	Regency Woods Drive	Kirtland City Line	60	Local	2	2,500	24	46	6,713	17	12	25	5,100	NONE	0			Clay	Stone	Asphalt
90	Chapin Falls Lane	Hobart Road	West End Culdesac	60	Local	3	500	22	548	1,770	7	10	22	1,540	CURB & GUTTI	1000			Clay	Stone	Asphalt
79	Charlesderry Road	Temple View Road	East End Dead End	40	Local	1	1,060	20	17	2,373	15	8	20	2,400	NONE	0			Clay & Stone	Tar & Chip	Asphalt
49	Chillicothe Road (East) (aka 615)	SR 306	Kirtland City Line (East)	60	Arterial	1	3,930	28	882	13,109	9	20	35	6,300	VERTICAL	1000	800	yes	Clay & Stone	Tar & Chip	Asphalt
131	Chillicothe Road (North) (aka Kirtland City Line (North))	1,100 south of Clocktower	Kirtland City Line (North)	60	Arterial	1	1,330	60	59	8,925	2	40	24	1,920	VERTICAL	2660	400	yes	Clay & Stone	Tar & Chip	Asphalt
145	Chillicothe Road (South) (aka SR306)	1,100 south of Clocktower	Kirtland City Line (South)	60	Arterial	1	24,760	30	1736	84,270	220	20	35	154,000	VERTICAL	14000	1560	yes	Clay & Stone	Tar & Chip	Asphalt
101	Christina Drive	Billings Road	South End Culdesac	60	Local	4	1,930	24	585	5,732	22	8	20	3,520	NONE	0			Clay	Stone	Asphalt
107	Conley Road	SR 306	West End Dead End	14	Local	1	400	17	12	768	3	10	32	960	NONE	0			Clay & Stone	Tar & Chip	Asphalt
60	Coudry Street	Joseph Street	Maple Street	66	Local	1	716	17	268	1,620	14	11	17	2,618	VERTICAL	1432			Clay & Stone	Tar & Chip	Asphalt
119	Courtney Lane	Billings Road	North End Culdesac	50	Local	4	1,228	18	626	3,082	5	7	22	770	NONE	0			Clay	Stone	Asphalt
32	Crary Lane	SR 6	Far Bar Road	50	Local	4	1,450	18	43	2,943	15	10	21	3,150	NONE	0			Clay & Stone	Tar & Chip	Asphalt
24	Crestwood Drive (North)	Beechwood Drive	275' S. of Oakwood Dr.	50	Local	3	1,640	21	43	3,870	16	9	20	2,880	NONE	0			Clay & Stone	Tar & Chip	Asphalt
43	Crestwood Drive (South)	275' S. of Oakwood Dr.	South End Culdesac	50	Local	3	860	24	534	2,827	15	9	20	2,700	VERTICAL	1720			Clay	?	Concrete
96	Deerfield Drive	Eagle Road	North End Culdesac	60	Local	2	600	20	680	2,013	7	10	20	1,400	NONE	0			Clay & Stone	Tar & Chip	Asphalt
110	Dewey(Gem) Rd.	Sperry Road	Heath Road	60	Collector	4	1,584	20	98	3,618	13	8	22	2,288	NONE	0			Clay & Stone	Tar & Chip	Asphalt
130	Eagle Creek Court	Foxwood Trail	West End Culdesac	50	Local	1	1,547</td														

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX B
STREET INVENTORY (SORTED ALPHABETICALLY)

2018 PCR RANK NO.	STREET NAME	LIMITS (FROM) (TO)	ROW WIDTH (FT.)	ROAD TYPE	WARD	PAVEMENT DIMENSIONS				DRIVE APRONS			CURB TYPE	GUARDRAIL LENGTH (FT.)	STRIPING	EXISTING PAVEMENT STRUCTURE					
						APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	ADD'L (S.Y.)	PAVE. (S.Y.)	Avg. Length (FT.)	Avg. Width (FT.)	Area (S.F.)				Subbase Type	Base Type	Surface Type			
						TYPE	WARD	AREA (S.Y.)	AREA (S.Y.)	NO. (FT.)	(FT.)	(S.F.)									
59	Fairview Avenue	Elm Street	Coudry Drive	50	Local	1	900	20	86	2,086	13	10	22	2,860	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
30	Far Bar Road	Crary Lane	East End Culdesac	50	Local	4	1,160	19	230	2,679	16	7	22	2,464	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
35	Florence Road	Alexander Road	North End Dead End	40	Local	1	535	12	53	766	8	1	30	240	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
72	Forest Edge	Booth Road	Amber Wood Drive	60	Local	2	1,090	21	153	2,696	6	10	25	1,500	NONE	0		Clay	Asphalt over Clay	Asphalt	
21	Forestdale Road	North End Culdesac	South End Culdesac	50	Local	2	2,800	18	60	5,660	43	11	17	8,041	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
16	Fox Hill Drive	Kirtland-Chardon Road	North End Culdesac	60	Local	2	1,267	20	774	3,590	15	9	23	3,105	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
109	Foxwood Trail	Eagle Road	South End Culdesac	60	Local	1	959	20	709	2,840	7	9	24	1,512	VERTICAL	1918		Clay	Stone	Asphalt	
118	Gaitside Trail	Walkers Lane	North End Culdesac	50	Local	4	2,000	22	628	5,517	12	7	23	1,932	VERTICAL	4000		Cement Treated	Stone	Asphalt	
113	Garfield Road	Chillicothe Road	Kirtland City Line (North)	60	Arterial	1	4,330	22	28	10,612	4	10	30	1,200	NONE	0	1394	yes	Clay & Stone	Tar & Chip	Asphalt
83	Gildersleeve Circle	Gildersleeve Drive	West End Culdesac	40	Local	1	280	18	162	722	4	9	20	720	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
20	Gildersleeve Drive	SR 6	East End Dead End	40	Local	1	3,500	18	43	7,043	37	10	20	7,400	NONE	0	290		Clay & Stone	Tar & Chip	Asphalt
122	Giuliano Drive	Anna Drive	West End Culdesac	60	Local	3	360	24	1865	2,825	5	10	22	1,100	NONE	0		Clay	Stone	Concrete	
81	Glen Park Road	Temple View Road	East End Dead End	40	Local	1	1,100	20	0	2,444	17	12	25	5,100	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
57	Glenstone Drive	Eagle Road	North End Culdesac	60	Local	2	1,325	20	218	3,163	17	8	20	2,720	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
18	Grandview Drive	SR 6	North End Culdesac	50	Local	3	1,478	24	519	4,460	16	10	22	3,520	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
77	Heath Road	SR 6	Kirtland City Line (South)	60	Collector	4	2,693	20	86	6,070	14	10	25	3,500	NONE	0	152		Clay & Stone	Tar & Chip	Asphalt
86	Hemlock Ridge Drive	Regency Woods Drive	East End Culdesac	60	Local	2	1,950	22	1032	5,798	24	10	24	5,760	NONE	0		Clay	Asphalt over Clay	Asphalt	
47	Hickory Hill Court	SR 6	South End Culdesac	60	Local	3	634	18	441	1,709	17	10	20	3,400	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
71	Hidden Valley Drive	Tibbets Road	West End Culdesac	50	Local	3	2,165	20	545	5,356	25	8	18	3,600	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
13	Highland Court	Hillcrest Road	West End Dead End	50	Local	4	685	20	35	1,557	6	11	17	1,122	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
19	Hillcrest Road	Billings Road	North End Dead End	60	Local	4	2,000	20	32	4,477	24	8	20	3,840	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
42	Hillsover Drive	Berkshire Hills Drive	Longview Drive	50	Local	3	904	20	117	2,126	11	10	24	2,640	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
115	Hobart Road	SR 6	Kirtland City Line (North)	60	Collector	1	6,286	20	49	14,018	55	10	32	17,600	NONE	0		yes	Clay & Stone	Tar & Chip	Asphalt
82	Joseph Street	SR 306	Metcalfe Road	60	Local	1	1,891	20	151	4,353	45	7	20	6,300	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
64	Kelsey Court	Worell Road	East End Culdesac	60	Local	3	480	24	675	1,955	6	11	19	1,254	VERTICAL	960		Clay	Stone	Concrete	
106	Kildeer Road	SR 6	North End Culdesac	50	Local	3	950	20	208	2,319	8	13	20	2,080	NONE	0		Clay & Stone	Tar & Chip	Tar & Chip	
40	Kimberly Drive	Gildersleeve Drive	Gildersleeve drive	40	Local	1	1,586	17	60	3,056	15	11	17	2,805	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
133	Kirtland Lake Boulevard	Thwing Road	Woodlake Drive	80	Local	4	300	30	194	1,194	2	8	20	320	NONE	0		Cement Treated	Asphalt over Stone	Asphalt	
94	Kirtland Road	SR 306	Kirtland City Line (West)	60	Arterial	1	516	24	43	1,419	2	20	88	3,520	NONE	0		yes	Clay & Stone	Tar & Chip	Asphalt
55	Kirtland-Chardon Road (Mid)	Booth Road	Sperry Road	60	Arterial	2	7,250	22	43	17,765	20	20	40	16,000	NONE	0	1280	yes	Clay & Stone	Asphalt over Stone	Asphalt
56	Kirtland-Chardon Road (North)	Chillicothe Road	Booth Road	60	Arterial	2	11,560	22	846	29,104	62	20	40	49,600	CURB & GUTTI	5000	3680	yes	Clay & Stone	Asphalt over Stone	Asphalt
48	Kirtland-Chardon Road (South)	Sperry Road	Kirtland City Line (East)	60	Arterial	2	3,720	22	0	9,093	7	20	40	5,600	CURB & GUTTI	1500	0	yes	Clay & Stone	Asphalt over Stone	Asphalt
138	Lake Brook Drive	Kirtland Lakes Boulevard	Woodlake Drive	60	Local	4	2,800	24	161	7,627	16	10	22	3,520	NONE	0		Cement Treated	Asphalt over Stone	Asphalt	
34	Ledgewood Drive	Rockwood Drive	West End Culdesac	60	Local	3	1,525	20	760	4,149	28	11	20	6,160	NONE	0		Clay	Stone	Asphalt	
15	Locust Drive	SR 306	SR 306	50	Local	4	4,163	16	35	7,436	43	10	22	9,460	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
22	Longview Drive	Graylock Drive	North End Culdesac	60	Local	3	1,373	18	117	2,863	12	10	25	3,000	NONE	0		Clay & Stone	Tar & Chip	Asphalt	
46	Loreto Ridge Drive	Billings Road	South End Culdesac	60	Local	4	1,942	24	725	5,904	26	9	22	5,148	NONE	0		Clay	Asphalt over Clay	Asphalt	
73	Maple Street	SR 306	Elm Street	55	Collector	1	1,584	20	86	3,606	18	11	22	4,356	NONE	0		Clay & Stone</			

CITY OF KIRTLAND
PAVEMENT EVALUATION

APPENDIX B STREET INVENTORY (SORTED ALPHABETICALLY)

**CITY OF KIRTLAND
PAVEMENT EVALUATION**

**APPENDIX B
PAVEMENT EVALUATION (SORTED ALPHABETICALLY)**

2018 PCR RANK	LIMITS	PAVEMENT CONDITION RATING	RECOMMEND'S. "0" = DO NOTHING					Recommended Repair	ORIGINAL CONSTR. YEAR	PREVIOUS IMPROVEMENTS				LAST RATING	
			CRACKSEAL	ASPHALT SURFACE TREATMENT	CONCRETE JOINT REPAIRS	ASPHALT PATCH REPAIRS	GRIND & OVERLAY			YEAR	TYPE	Performed by	Material Cost		
			(0-5)	(0-5)	(0-5)	(0-5)	(0-5)			YEAR	TYPE				
			(FROM)	(TO)	100= BEST					YEAR	TYPE				
78	Alexander Drive	SR 306	Florence Road	67.2	4	0	0	3	1 Partial Depth Repair	<1970	1992	RESURFACED	contractor	Good	
143	Alpenrose Drive	SR 306	West End Culdesac	98.0	0	0	0	0	0 No Action Required	2013	2013	NEW	developer	Excellent	
27	Alpine Drive	Eagle Road	Eagle Road	45.2	0	0	0	0	4 Mill and Fill	<1970	2003	RESURFACED	service dept.	\$ 39,360.00	Good
63	Amberwood Drive	Kirtland-Chardon Road	North End Culdesac	61.3	3	0	0	3	2 Partial Depth Repair	1988	1992	NEW	developer	Good	
58	Angela Drive	SR 6	South End Culdesac	59.7	5	0	0	3	0 Joint Seal	1996	1997	NEW	developer	Good	
61	Anna Drive	SR 6	South End Culdesac	60.5	1	0	4	0	0 Full Depth Repair	2002	2003	NEW	developer	Good	
37	Appaloosa Trail	Birdlehurst Trail	East End Culdesac	51.4	2	0	0	4	3 Partial Depth Repair	1976	2000	RESURFACED	service dept.	\$ 7,200.00	Good
54	Applewood Drive	Eagle Road	Alpine Drive	58.4	0	0	0	0	3 Mill and Fill	<1970	2003	RESURFACED	service dept.	\$ 8,640.00	Good
146	Arborhurst Drive	Booth Road	East End Culdesac	100.0	0	0	0	0	0 No Action Required	1977	2004	RESURFACED	service dept.	\$ 14,340.00	Good
117	Ascot Place	Rocking Horse Trail	West End Culdesac	77.9	4	0	0	0	0 Joint Seal	1997	1998	NEW	developer	Excellent	
132	Barristers court	SR 306	West End Culdesac	86.7	2	0	0	0	0 Joint Seal	2002	2002	NEW	developer	Excellent	
116	Bayshire Trail	SR 6	Walkers Lane	77.7	1	0	0	0	0 Joint Seal	2000	2000	NEW	developer	Excellent	
12	Beechwood Drive	Parkwood Drive	Oakwood Drive	40.8	0	0	0	0	5 Mill and Fill	<1970	1992	RESURFACED	contractor	Poor	
66	Berkshire Hills Drive	Graylock Drive	Timbercreek Drive	62.0	3	0	0	4	2 Partial Depth Repair	<1970	2004	RESURFACED	service dept.	\$ 17,920.00	Good
11	Billings Road	SR 306	Sperry Road	40.0	0	0	0	2	4 Partial Depth Repair	<1970	2003	RESURFACED	service dept.	\$ 97,920.00	Fair
65	Blueberry Hill Drive	SR 6	South End Culdesac	61.4	3	0	0	3	1 Partial Depth Repair	1998	1998	NEW	developer	Excellent	
84	Bluff Street	Maple Street	North End Dead End	68.9	4	0	0	3	3 Partial Depth Repair	<1970	2006	RESURFACED	service dept.	\$ 2,878.00	Excellent
2	Booth Road	Eagle Road East	Kirtland City Line	32.4	0	0	0	0	5 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 32,250.00	Good
100	Briar Hill (1) Drive	SR 6	North End Culdesac	73.1	3	0	0	4	1 Partial Depth Repair	<1970	2005	RESURFACED	service dept.	Excellent	
85	Briar Hill (2) Court	Briar Hill Drive	E-W Middle Culdesac	68.9	4	0	0	4	1 Partial Depth Repair	<1970	2005	RESURFACED	service dept.	Excellent	
91	Briar Hill (3) Court	E-W Middle Culdesac	West End Dead Culdesac	71.0	0	0	0	0	0	<1970	2005	RESURFACED	service dept.	Excellent	
8	Bridlehurst Trail	SR 306	East End Culdesac	36.7	2	0	0	1	4 Mill and Fill	1976	2000	RESURFACED	service dept.	\$ 32,400.00	Fair
114	Cardinal Drive	Regency Woods Drive	Kirtland City Line	76.6	5	0	0	3	0 Partial Depth Repair	1993	1993	NEW	developer	Good	
90	Chapin Falls Lane	Hobart Road	West End Culdesac	70.4	3	0	0	4	2 Partial Depth Repair	1996	1998	NEW	developer	Good	
79	Charlesderry Road	Temple View Road	East End Dead End	67.2	4	0	0	0	1 Joint Seal	<1970	2007	RESURFACED	service dept.	\$ 10,846.00	Good
49	Chillicothe Road (East) (aka 6)	SR 306	Kirtland City Line (East)	57.3	4	0	0	3	0 Partial Depth Repair	<1970	2000	RESURFACED	odot	Fair	
131	Chillicothe Road (North) (aka 1)	Kirtland City Line (North)	1,100 south of Clocktowe	86.2	2	0	0	0	0 Joint Seal	<1970	2000	RESURFACED	odot	Fair	
145	Chillicothe Road (South) (aka 1)	1,100 south of Clocktowe	Kirtland City Line (South)	100.0	0	0	0	0	0 No Action Required	<1970	2018	RESURFACED	odot	Fair	
101	Christina Drive	Billings Road	South End Culdesac	73.8	5	0	0	0	0 Joint Seal	1994	1999	NEW	developer	Good	
107	Conley Road	SR 306	West End Dead End	75.3	4	0	0	4	1 Partial Depth Repair	<1970	2007	RESURFACED	service dept.	\$ 4,468.00	Excellent
60	Coudry Street	Joseph Street	Maple Street	59.9	3	0	0	3	3 Partial Depth Repair	<1970	2006	RESURFACED	service dept.	\$ 6,146.00	Good
119	Courtney Lane	Billings Road	North End Culdesac	78.8	4	0	0	0	0 Joint Seal	2005	2005	NEW	developer	Excellent	
32	Crary Lane	SR 6	Far Bar Road	46.4	0	0	0	0	4 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 6,750.00	Fair
24	Crestwood Drive (North)	Beechwood Drive	275' S. of Oakwood Dr.	44.2	0	0	0	0	5 Mill and Fill	<1970	1992	RESURFACED	contractor	Poor	
43	Crestwood Drive (South)	275' S. of Oakwood Dr.	South End Culdesac	54.5	1	0	5	0	0 Full Depth Repair	<1970	1992	RESURFACED	contractor	Poor	
96	Deerfield Drive	Eagle Road	North End Culdesac	71.9	4	0	0	4	1 Partial Depth Repair	1962	2004	RESURFACED	service dept.	\$ 7,280.00	Good
110	Dewey(Gem) Rd.	Sperry Road	Heath Road	76.2	3	0	0	4	0 Partial Depth Repair	<1970	1991	RESURFACED	contractor	Good	
130	Eagle Creek Court	Foxwood Trail	West End Culdesac	85.8	3	0	0	0	0 Joint Seal	2006	2007	NEW	Developer	Excellent	
125	Eagle Road (East)	SR 306	Kirtland-Chardon Road	81.3	2	0	0	0	0 Joint Seal	<1970	2016	RESURFACED	service dept.	\$ 61,600.00	Fair
142	Eagle Road (West)	SR 306	Kirtland City Line	95.6	0	0	0	0	0 No Action Required	<1970	2017	RESURFACED	service dept.	\$ 22,000.00	Fair
68	Eagles Nest Lane	White Oak Road	North End Culdesac	63.1	4	0	0	0	0 Partial Depth Repair	1994	1995	NEW	developer	Good	
51	Eisenhower Drive	SR 306	West End Dead End	57.8	3	0	0	3	3 Partial Depth Repair	<1970	2001	RESURFACED	service dept.	\$ 7,200.00	Fair
26	Elm Street	South End Dead End	North End Dead End	44.9	5	0	0	0	2 Mill and Fill	<1970	2006	RESURFACED	service dept.	\$ 11,237.83	Good
39	Elmwood Drive	Crestwood Drive	Parkwood Drive	52.1	0	0	0	0	4 Mill and Fill	<1970	1992	RESURFACED	contractor	Fair	
9	Emerald Glen Court	SR 306	East End Culdesac	37.4	1	0	5	0	3 Ashpalt Overlay	1991	1992	NEW	developer	Good	
112	Euclid-Chardon Road (East)	Sperry Road	Kirtland City Line (East)	76.5	5	0	0	3	0 Joint Seal	<1970	2010	RESURFACED	ODOT	Good	
108	Euclid-Chardon Road (Mid)	Chillicothe Road (aka SR Sperry Road		75.7	5	0	0	0	0 Joint Seal	<1970	2010	RESURFACED	ODOT	Good	
103	Euclid-Chardon Road (West)	Kirtland City Line (West)	Chillicothe Road (aka SR	74.5	5	0	0	0	0 Joint Seal	<1970	2010	RESURFACED	ODOT	Good	
92	Fairridge Drive	Fairview Drive	East End Culdesac	71.0	4	0	0	0	1 Joint Seal	1980	2003	RESURFACED	service dept.	\$ 4,320.00	Excellent

**CITY OF KIRTLAND
PAVEMENT EVALUATION**

**APPENDIX B
PAVEMENT EVALUATION (SORTED ALPHABETICALLY)**

RANK NO.	STREET NAME	LIMITS (FROM) (TO)	PAVEMENT CONDITION RATING	RECOMMEND'S. "0" = DO NOTHING					Recommended Repair	ORIGINAL CONSTR. YEAR	PREVIOUS IMPROVEMENTS				LAST RATING
				CRACKSEAL (0-5)	ASPHALT SURFACE TREATMENT (0-5)	CONCRETE JOINT REPAIRS (0-5)	ASPHALT PATCH REPAIRS (0-5)	GRIND & OVERLAY (0-5)			YEAR	TYPE	Performed by	Material Cost	
				100= BEST											
59	Fairview Avenue	Elm Street	Coudry Drive	59.8	3	0	0	0	5 Mill and Fill	<1970	2006	RESURFACED	service dept.	\$ 6,713.20	Excellent
30	Far Bar Road	Crary Lane	East End Culdesac	46.0	1	0	0	0	4 Full Depth Repair	<1970	2002	RESURFACED	service dept.	\$ 7,250.00	Fair
35	Florence Road	Alexander Road	North End Dead End	48.2	2	0	0	0	4 Mill and Fill	<1970	1992	RESURFACED	contractor		Fair
72	Forest Edge	Booth Road	Amber Wood Drive	63.9	3	0	0	3	1 Full Depth Repair	1988	2007	RESURFACED	service dept.	\$ 18,330.00	Good
21	Forestdale Road	North End Culdesac	South End Culdesac	44.0	1	0	0	0	5 Mill and Fill	1954	2002	RESURFACED	service dept.	\$ 13,750.00	Good
16	Fox Hill Drive	Kirtland-Chardon Road	North End Culdesac	43.1	0	0	0	0	5 Mill and Fill	1962	1997	RESURFACED	service dept.	\$ 35,060.00	Fair
109	Foxwood Trail	Eagle Road	South End Culdesac	75.8	5	0	0	0	0 Joint Seal	2000	2001	NEW	developer		Excellent
118	Gaitside Trail	Walkers Lane	North End Culdesac	78.2	4	0	0	0	0 Joint Seal	2003	2003	NEW	developer		Excellent
113	Garfield Road	Chillicothe Road	Kirtland City Line (North)	76.5	3	0	0	4	0 Partial Depth Repair	<1970	2000	RESURFACED	service dept.	issue 2	Excellent
83	Gildersleeve Circle	Gildersleeve Drive	West End Culdesac	68.7	2	0	0	0	3 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 1,500.00	Good
20	Gildersleeve Drive	SR 6	East End Dead End	43.8	2	0	0	2	4 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 17,000.00	Good
122	Giuliano Drive	Anna Drive	West End Culdesac	79.6	1	0	3	0	0 Full Depth Repair	2002	2003	RESURFACED	developer		Excellent
81	Glen Park Road	Temple View Road	East End Dead End	67.7	4	0	0	3	2 Partial Depth Repair	<1970	2007	RESURFACED	service dept.	\$ 13,735.00	Good
57	Glenstone Drive	Eagle Road	North End Culdesac	59.3	3	0	0	3	1 Partial Depth Repair	<1970	2001	RESURFACED	service dept.	\$ 9,000.00	Fair
18	Grandview Drive	SR 6	North End Culdesac	43.6	0	0	0	0	3 Mill and Fill	<1970	2016	RESURFACED	service dept.	\$ 16,984.00	Excellent
77	Heath Road	SR 6	Kirtland City Line (South)	67.1	4	0	0	3	1 Partial Depth Repair	<1970	2005	RESURFACED	service dept.		Good
86	Hemlock Ridge Drive	Regency Woods Drive	East End Culdesac	68.9	3	0	0	1	0 Joint Seal	1989	2007	RESURFACED	service dept.	\$ 25,375.00	Excellent
47	Hickory Hill Court	SR 6	South End Culdesac	56.4	3	4	0	2	2 Chip Seal	<1970	2001	RESURFACED	service dept.	\$ 4,320.00	Good
71	Hidden Valley Drive	Tibbets Road	West End Culdesac	63.5	2	0	0	3	1 Partial Depth Repair	<1970	2008	RESURFACED	service dept.	\$ 55,000.00	Excellent
13	Highland Court	Hillcrest Road	West End Dead End	41.1	0	0	0	0	4 Mill and Fill	<1970	2001	RESURFACED	service dept.	\$ 4,680.00	Fair
19	Hillcrest Road	Billings Road	North End Dead End	43.6	0	0	0	0	4 Mill and Fill	<1970	2001	RESURFACED	service dept.	\$ 11,880.00	Fair
42	Hillsover Drive	Berkshire Hills Drive	Longview Drive	53.9	2	0	0	4	4 Partial Depth Repair	<1970	2004	RESURFACED	service dept.	\$ 8,400.00	Good
115	Hobart Road	SR 6	Kirtland City Line (North)	77.7	3	0	0	3	0 Partial Depth Repair	<1970	2002	RESURFACED	service dept.	\$ 31,500.00	Good
82	Joseph Street	SR 306	Metcalfe Road	67.8	5	0	0	0	1 Joint Seal	<1970	2006	RESURFACED	service dept.	\$ 13,304.38	Good
64	Kelsey Court	Worell Road	East End Culdesac	61.3	1	3	3	0	1 Asphalt Overlay	1993	1993	NEW	developer		Good
106	Kildeer Road	SR 6	North End Culdesac	75.2	1	0	0	0	0 No Action Required	<1970	2016	RESURFACED	contractor		Poor
40	Kimberly Drive	Gildersleeve Drive	Gildersleeve drive	52.4	0	0	0	0	4 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 8,500.00	Good
133	Kirtland Lake Boulevard	Thwing Road	Woodlake Drive	88.9	2	0	0	0	0 Joint Seal	1989	2017	RESURFACED	service dept.		Poor
94	Kirtland Road	SR 306	Kirtland City Line (West)	71.4	4	0	0	0	2 Joint Seal	<1970	1990	RESURFACED	contractor		Poor
55	Kirtland-Chardon Road (Mid)	Booth Road	Sperry Road	58.6	4	0	0	3	0 Partial Depth Repair	<1970	1982	RESURFACED	contractor		Good
56	Kirtland-Chardon Road (North)	Chillicothe Road	Booth Road	59.0	4	0	0	3	1 Partial Depth Repair	<1970	1982	RESURFACED	contractor		Good
48	Kirtland-Chardon Road (South)	Sperry Road	Kirtland City Line (East)	57.0	3	0	0	3	2 Partial Depth Repair	<1970	1982	RESURFACED	contractor		Good
138	Lake Brook Drive	Kirtland Lakes Boulevard	Woodlake Drive	92.1	2	0	0	0	0 Joint Seal	1990	2017	RESURFACED	service dept.		Poor
34	Ledgewood Drive	Rockwood Drive	West End Culdesac	48.0	0	0	0	0	5 Full Depth Repair	1970	1999	RESURFACED	service dept.	\$ 11,600.00	Poor
15	Locust Drive	SR 306	SR 306	42.8	1	0	0	0	3 Full Depth Repair	<1970	2001	RESURFACED	service dept.	\$ 30,980.00	Good
22	Longview Drive	Graylock Drive	North End Culdesac	44.0	2	0	0	0	4 Mill and Fill	<1970	2004	RESURFACED	service dept.	\$ 14,560.00	Good
46	Loreto Ridge Drive	Billings Road	South End Culdesac	55.1	2	0	0	0	4 Mill and Fill	1990	1992	NEW	developer		Good
73	Maple Street	SR 306	Elm Street	64.0	4	0	0	0	3 Mill and Fill	<1970	2006	RESURFACED	service dept.	\$ 11,237.83	Good
14	Markell Road	SR 306	Kirtland City Line (West)	42.6	2	0	0	0	5 Mill and Fill	<1970	1993	RESURFACED	contractor		Good
136	Martin Road	Booth Road	East End Dead End	91.5	1	0	0	0	0 No Action Required	<1970	2017	RESURFACED	service dept.		Poor
52	Misty Hollow Lane	SR 6	North End Culdesac	57.8	4	0	0	3	2 Joint Seal	1995	1995	NEW	developer		Good
7	Mitchell Mills Road	Sperry Road	Kirtland City Line (East)	35.8	0	0	0	0	5 Mill and Fill	<1970	1988	RESURFACED	contractor		Fair
6	Monterey Avenue	SR 306	West End Culdesac	34.2	3	0	0	0	5 Mill and Fill	1966	2005	RESURFACED	service dept.		Fair
41	North Star Rd.	Charlesberry Road	North End Dead End	53.5	0	0	0	0	4 Mill and Fill	<1970	2007	RESURFACED	service dept.	\$ 13,933.00	Good
120	Oakwood Drive	Beechwood Drive	Crestwood Drive	79.0	0	0	0	2	0 Partial Depth Repair	<1970	1992	RESURFACED	contractor		Fair
129	Orchard Dr.	Hobart Road	South End Culdesac	85.5	3	0	0	0	0 Joint Seal	2006	2006	NEW	developer		Excellent
97	Overlook Drive	Chillicothe Road	North End Dead End	71.9	4	0	0	0	1 Joint Seal	<1970	2001	RESURFACED	service dept.	\$ 5,040.00	Good
23	Palomino Trail	Bridlehurst Trail	West End Culdesac	44.0	2	0	0	1	4 Partial Depth Repair	1976		RESURFACED	service dept.	\$ 17,600.00	Good
50	Parkwood Drive	SR 306	Elmwood Drive	57.4	0	0	0	0	4 Mill and Fill	<1970	1992	RESURFACED	contractor		Poor

**CITY OF KIRTLAND
PAVEMENT EVALUATION**

**APPENDIX B
PAVEMENT EVALUATION (SORTED ALPHABETICALLY)**

RANK NO.	STREET NAME	LIMITS (FROM) (TO)	PAVEMENT CONDITION RATING 100= BEST	RECOMMEND'S, "0" = DO NOTHING					Recommended Repair	ORIGINAL CONSTR. YEAR	PREVIOUS IMPROVEMENTS				LAST RATING
				CRACKSEAL (0-5)	ASPHALT SURFACE TREATMENT (0-5)	CONCRETE JOINT REPAIRS (0-5)	ASPHALT PATCH REPAIRS (0-5)	GRIND & OVERLAY (0-5)			YEAR	TYPE	Performed by	Material Cost	
											YEAR	TYPE	Performed by	Material Cost	
111	Partridge Trail	Eagle Road	Pheasant Lane	76.2	4	0	0	4	0 Partial Depth Repair	1977	2007	RESURFACED	service dept.		Good
74	Pheasant Lane	Partridge Trail	East End Culdesac	64.2	5	0	0	3	1 Full Depth Repair	1977	2007	RESURFACED	service dept.		Good
141	Pinehurst Drive	SR 306	West End Culdesac	94.2	0	0	0	0	0 No Action Required	1996	2017	RESURFACED	developer		Poor
10	Prelog Lane	Sperry Road	West End Culdesac	39.9	0	0	0	0	5 Mill and Fill	<1970	1993	RESURFACED	developer		Fair
70	Ptarmigan Court	Pheasant Lane	West End Culdesac	63.3	4	0	0	3	1 Partial Depth Repair	1977	2007	RESURFACED	service dept.	\$ 23,136.00	Good
44	Quail Circle (East)	Circle	East End Culdesac	54.6	2	0	0	0	4 Mill and Fill	1977	2007	RESURFACED	service dept.	\$ 11,849.04	Good
95	Quail Circle (West)	Partridge Trail	Circle	71.5	5	0	0	2	0 Joint Seal	1977	2007	RESURFACED	service dept.	\$ 16,362.96	Good
127	Quarry View Lane	Strumbly Glenn Lane	East End Culdesac	84.2	3	0	0	0	0 Joint Seal	2006	2006	NEW	developer		Poor
87	Raccoon Hill Drive	Hobart Road	Loops Back Into Itself	69.5	5	0	0	0	0 Joint Seal	<1970	2005	RESURFACED	service dept.		Fair
93	Red Tail Lane	Cardinal Drive	North End Culdesac	71.1	5	0	0	2	0 Joint Seal	1993	1993	NEW	developer		Good
28	Regency Woods Drive (North)	Cardinal Drive	Riverwood Way / Westw	45.8	3	0	0	0	4 Mill and Fill	1989	2001	RESURFACED	service dept.	\$ 18,144.00	Good
45	Regency Woods Drive (South)	Kirtland-Chardon Road	Cardinal Drive	54.7	4	0	0	3	2 Partial Depth Repair	1989	2001	RESURFACED	service dept.	\$ 25,056.00	Good
33	Riverwood Way	Westwood Road	North End Culdesac	47.0	3	0	0	0	4 Mill and Fill	1989	1993	NEW	developer		Good
123	Robin Lane	White Oak Road	South End Culdesac	79.8	4	0	0	0	0 Joint Seal	1994	1995	NEW	developer		Good
104	Rocking Horse Trail	SR 6	North End Culdesac	74.9	3	0	0	4	1 Partial Depth Repair	1997	1998	NEW	developer		Good
31	Rockwood Drive	SR 6	South End Culdesac	46.0	1	0	0	0	4 Mill and Fill	1970	1999	RESURFACED	service dept.	\$ 16,000.00	Fair
36	Russellhurst Drive	SR 306	West End Culdesac	49.2	4	0	0	2	2 Partial Depth Repair	<1970	2003	RESURFACED	service dept.	\$ 15,840.00	Fair
62	Saxon Drive	Eisenhower Drive	Eisenhower Drive	60.8	2	0	0	0	4 Mill and Fill	<1970	2001	RESURFACED	service dept.	\$ 7,920.00	Fair
25	Shadowbrook Drive	Hobart Road	West End Culdesac	44.8	0	0	0	0	5 Mill and Fill	1962	1993	RESURFACED	contractor		Fair
98	Shaw Avenue	Kirtland-Chardon Road	Thorne Avenue	72.3	2	2	0	0	3 Chip Seal	<1970	1993	RESURFACED	contractor		Poor
105	Shetland Court	Rocking Horse Trail	East End Culdesac	75.1	2	0	0	2	0 Partial Depth Repair	1997	1998	NEW	developer		Excellent
144	Singlefoot Trail	Booth Road	West End Culdesac	99.6	0	0	0	0	0 No Action Required	1977	2018	NEW	developer		Poor
134	Sperry Road (North)	Kirtland-Chardon Road	Euclid -Chardon Road	90.2	0	0	0	0	0 No Action Required	<1970	2015	RESURFACED	service dept.	\$ 53,268.00	Poor
67	Sperry Road (South)	Euclid -Chardon Road	South Kirtland City Line	62.5	3	0	0	0	0 Partial Depth Repair	<1970	2015	RESURFACED	service dept.	\$ 23,932.00	Poor
3	Springer Circle	Springer Drive	West End Culdesac	32.8	0	0	0	0	5 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 2,000.00	Fair
1	Springer Drive	SR 306	South End Culdesac	28.3	0	0	0	0	5 Mill and Fill	<1970	2002	RESURFACED	service dept.	\$ 10,000.00	Fair
102	Stone Ridge Dr.	SR 6	North End Culdesac	74.2	4	0	0	0	0 Joint Seal	2005	2006	NEW	developer		Excellent
126	Strumbly Glen Lane	Orchard Drive	North End Culdesac	83.4	3	0	0	0	0 Joint Seal	2006	2006	NEW	developer		Excellent
121	Sugarhouse Hill Court	Stone Ridge Drive	North End Culdesac	79.4	4	0	0	0	0 Joint Seal	2005	2006	NEW	developer		Excellent
124	Templeview Road	SR 306	Charlesderry Road	79.9	3	0	0	0	0 Joint Seal	<1970	2007	RESURFACED	service dept.		Fair
38	Thorne Avenue	North End Culdesac	South End Culdesac	51.4	1	0	0	0	4 Mill and Fill	<1970	1993	RESURFACED	contractor		Poor
99	Thwing Road	SR 6	Kirtland City Line	72.4	4	0	0	0	0 Joint Seal	<1970	2013	RESURFACED	contractor		Good
128	Tibbets Road	SR 6	Kirtland City Line	84.7	1	0	0	0	0 No Action Required	<1970	2011	RESURFACED	service dept.		Excellent
17	Timbercreek Drive	Berkshire Hills Drive	North End Culdesac	43.2	0	0	0	0	5 Mill and Fill	<1970	2003	RESURFACED	service dept.	\$ 7,680.00	Good
53	Valleyview Oval	Quail Circle	Quail Circle	58.0	2	0	0	3	3 Partial Depth Repair	1988	2007	RESURFACED	service dept.		Good
89	Walkers Lane	Rocking Horse Trail	East End Culdesac	70.0	2	0	0	2	1 Partial Depth Repair	1999	1999	NEW	developer		Excellent
29	Westwood Road	Forestdale Drive	Riverwood Way	45.9	1	0	0	0	4 Mill and Fill	1955	2002	RESURFACED	service dept.	\$ 6,000.00	Poor
69	White Oak Road	Cradinal Drive	East End Culdesac	63.2	4	0	0	3	0 Partial Depth Repair	1993	1993	NEW	developer		Good
80	Wilbert Drive	Billings Road	South End Culdesac	67.5	3	0	0	3	0 Partial Depth Repair	<1970	2005	RESURFACED	service dept.		Poor
4	Wisner Road	SR 6	Kirtland-Chardon Road	33.6	0	0	0	0	5 Mill and Fill	<1970	1996	RESURFACED	contractor		Poor
5	Wisner Road (North)	Kirtland-Chardon Road	Kirtland City Line (East)	33.6	0	0	0	0	5 Mill and Fill	<1970	1996	RESURFACED	contractor		Poor
140	Woodcroft Court	Pinehurst Drive	South End Culdesac	93.7	1	0	0	0	0 No Action Required	1996	2017	NEW	developer		Good
88	Woodhawk Lane	White oak Road	South End Culdesac	69.8	4	0	0	0	0 Joint Seal	1993	1995	NEW	developer		Good
76	Woodhill Road	Kirtland-Chardon Road	Forestdale Drive	65.2	4	0	0	3	2 Partial Depth Repair	<1970	2002	RESURFACED	service dept.	\$ 1,750.00	Poor
135	Woodlake Drive	Kirtland Lakes Boulevard	West End Culdesac	90.3	2	0	0	0	0 Joint Seal	1990	2017	RESURFACED	service dept.		Good
75	Woods Way Drive	Kirtland-Chardon Road	North End Culdesac	64.8	3	0	0	3	1 Partial Depth Repair	1988	2005	RESURFACED	service dept.		Fair
139	Worrell Road	SR 6	Kirtland City Line (South)	93.2	1	0	0	0	0 No Action Required	<1970	2016	RESURFACED	service dept.	\$ 22,400.00	Poor
137	Wrenwood Drive	Eagle Road	North End Dead End	91.5	0	0	0	0	0 No Action Required	<1970	2017	RESURFACED	contractor		Poor

**CITY OF KIRTLAND
PAVEMENT EVALUATION**

**APPENDIX B
BUDGETARY PROJECT COSTS FOR VARIOUS RECOMMENDED IMPROVEMENT OPTIONS (SORTED ALPHABETICALLY)**

RANK NO.	STREET NAME	LIMITS			EXISTING PAVEMENT	CRACK SEALING			APPROX. APPROX. APPROX. RATE MI / 750 GAL GALLONS	ASPHALT SUFACE TREAT APPROX. COST / S.Y. @ \$12.00	CONCRETE		ASPHALT PATCH		GRIND / OVERLAY APPROX. APPROX. APPROX. % \$115.00	COMPLETE PAVEMENT			
		APPROX. LENGTH (FT.)	AVG. WIDTH (FT.)	PAVE. (S.Y.)		JOINT REPAIR APPROX.	REPAIRS (t = 1") APPROX.	PAVE.			REPL.	REPLACEMENT Asph. = \$ 115.00							
						COST / S.Y. @ \$12.00	% \$115.00	AREA COST / S.Y. @ \$20.00		COST / S.Y. @ \$40.00		Conc.= \$ 125.00	Stone = \$ 50.00	APPROX. COST					
78	Alexander Drive	SR 306	Florence Road	390	24	1137	Asphalt	0.50	120	\$1,400	\$0	6.3%	\$0	20%	\$4,500	\$45,500	Asphalt	115.00	\$130,700
143	Alpenrose Drive	SR 306	West End Culdesac	1120	21	3337	Concrete	N/A	0	\$0	\$0	6.3%	\$0	5%	\$0	\$0	Concrete	125.00	\$417,100
27	Alpine Drive	Eagle Road	Eagle Road	3235	19	6904	Asphalt	0.50	732	\$0	\$0	6.3%	\$0	30%	\$0	\$276,200	Asphalt	115.00	\$794,000
63	Amberwood Drive	Kirtland-Chardon Road	North End Culdesac	4961	21	11634	Asphalt	1.00	617	\$7,400	\$0	6.3%	\$0	20%	\$46,500	\$465,400	Asphalt	115.00	\$1,337,900
58	Angela Drive	SR 6	South End Culdesac	3430	25	10219	Asphalt	0.50	1083	\$13,000	\$0	6.3%	\$0	30%	\$61,300	\$0	Asphalt	115.00	\$1,175,200
61	Anna Drive	SR 6	South End Culdesac	1020	24	2769	Concrete	2.00	75	\$900	\$0	25.1%	\$79,900	5%	\$0	\$0	Concrete	125.00	\$346,100
37	Appaloosa Trail	Birdlehurst Trail	East End Culdesac	950	23	2486	Asphalt	0.50	264	\$3,200	\$0	6.3%	\$0	20%	\$9,900	\$99,500	Asphalt	115.00	\$285,900
54	Applewood Drive	Eagle Road	Alpine Drive	1100	19	2352	Asphalt	0.50	249	\$0	\$0	6.3%	\$0	30%	\$0	\$94,100	Asphalt	115.00	\$270,500
146	Arborhurst Drive	Booth Road	East End Culdesac	850	25	2445	Asphalt	N/A	0	\$0	\$0	6.3%	\$0	5%	\$0	\$0	Asphalt	115.00	\$281,200
117	Ascot Place	Rocking Horse Trail	West End Culdesac	550	25	2184	Asphalt	2.00	59	\$700	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$251,200
132	Barristers court	SR 306	West End Culdesac	1100	23	3493	Asphalt	2.00	94	\$1,100	\$0	6.3%	\$0	5%	\$0	\$0	Asphalt	115.00	\$401,700
116	Bayshire Trail	SR 6	Walkers Lane	1030	22	2594	Asphalt	2.00	70	\$800	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$298,300
12	Beechwood Drive	Parkwood Drive	Oakwood Drive	2851	17	5385	Asphalt	0.50	571	\$0	\$0	6.3%	\$0	20%	\$0	\$215,400	Asphalt	115.00	\$619,300
66	Berkshire Hills Drive	Graylock Drive	Timbercreek Drive	1689	19	3624	Asphalt	0.50	384	\$4,600	\$0	6.3%	\$0	20%	\$14,500	\$145,000	Asphalt	115.00	\$416,800
11	Billings Road	SR 306	Sperry Road	10771	19	22932	Asphalt	0.50	2431	\$0	\$0	6.3%	\$0	30%	\$137,600	\$917,300	Asphalt	115.00	\$2,637,200
65	Blueberry Hill Drive	SR 6	South End Culdesac	2100	24	6249	Asphalt	0.50	662	\$7,900	\$0	6.3%	\$0	30%	\$37,500	\$249,900	Asphalt	115.00	\$718,600
84	Bluff Street	Maple Street	North End Dead End	405	18	829	Asphalt	0.50	88	\$1,100	\$0	6.3%	\$0	10%	\$1,700	\$33,200	Asphalt	115.00	\$95,300
2	Booth Road	Eagle Road East	Kirtland City Line	6825	20	15396	Asphalt	1.00	816	\$0	\$0	6.3%	\$0	40%	\$0	\$615,800	Asphalt	115.00	\$1,770,500
100	Briar Hill (1) Drive	SR 6	North End Culdesac	1520	22	4048	Asphalt	0.50	429	\$5,100	\$0	6.3%	\$0	20%	\$16,200	\$161,900	Asphalt	115.00	\$465,600
85	Briar Hill (2) Court	Briar Hill Drive	E-W Middle Culdesac	1400	20	3329	Asphalt	0.50	353	\$4,200	\$0	6.3%	\$0	20%	\$13,300	\$133,200	Asphalt	115.00	\$382,900
91	Briar Hill (3) Court	E-W Middle Culdesac	West End Dead Culdesac	510	20	1210	Asphalt	N/A	0	\$0	\$0	6.3%	\$0	5%	\$0	\$0	Asphalt	115.00	\$139,100
8	Bridlehurst Trail	SR 306	East End Culdesac	4277	22	11167	Asphalt	1.00	592	\$7,100	\$0	6.3%	\$0	40%	\$89,300	\$446,700	Asphalt	115.00	\$1,284,200
114	Cardinal Drive	Regency Woods Drive	Kirtland City Line	2500	24	6713	Asphalt	1.00	356	\$4,300	\$0	6.3%	\$0	10%	\$13,400	\$0	Asphalt	115.00	\$771,900
90	Chapin Falls Lane	Hobart Road	West End Culdesac	500	22	1770	Asphalt	1.00	94	\$1,100	\$0	6.3%	\$0	20%	\$7,100	\$70,800	Asphalt	115.00	\$203,600
79	Charlesderry Road	Temple View Road	East End Dead End	1060	20	2373	Asphalt	1.00	126	\$1,500	\$0	6.3%	\$0	10%	\$0	\$94,900	Asphalt	115.00	\$272,900
49	Chillicothe Road (East) (aka 615)	SR 306	Kirtland City Line (East)	3930	28	13109	Asphalt	0.50	1390	\$16,700	\$0	6.3%	\$0	20%	\$52,400	\$0	Asphalt	115.00	\$1,507,500
131	Chillicothe Road (North) (aka Kirtla	Kirtland City Line (North)	1,100 south of Clocktower I	1330	60	8925	Asphalt	0.50	946	\$11,400	\$0	6.3%	\$0	5%	\$0	\$0	Asphalt	115.00	\$1,026,400
145	Chillicothe Road (South) (aka SR3)	1,100 south of Clocktower I	Kirtland City Line (South)	24760	30	84270	Asphalt	N/A	0	\$0	\$0	6.3%	\$0	5%	\$0	\$0	Asphalt	115.00	\$9,691,000
101	Christina Drive	Billings Road	South End Culdesac	1930	24	5732	Asphalt	0.50	608	\$7,300	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$659,200
107	Conley Road	SR 306	West End Dead End	400	17	768	Asphalt	0.50	81	\$1,000	\$0	6.3%	\$0	10%	\$1,500	\$30,700	Asphalt	115.00	\$88,300
60	Coudry Street	Joseph Street	Maple Street	716	17	1620	Asphalt	1.00	86	\$1,000	\$0	6.3%	\$0	30%	\$9,700	\$64,800	Asphalt	115.00	\$186,300
119	Courtney Lane	Billings Road	North End Culdesac	1228	18	3082	Asphalt	0.50	327	\$3,900	\$0	6.3%	\$0	10%	\$0	\$0	Asphalt	115.00	\$354,400
32	Crary Lane	SR 6	Far Bar Road	1450	18	2943	Asphalt	1.00	156	\$0	\$0	6.3%	\$0	30%	\$0	\$117,700	Asphalt	115.00	\$338,400
24	Crestwood Drive (North)	Beechwood Drive	275' S. of Oakwood Dr.	1640	21	3870	Asphalt	1.00	205	\$0	\$0	6.3%	\$0	30%	\$0	\$154,800	Asphalt	115.00	\$445,000
43	Crestwood Drive (South)	275' S. of Oakwood Dr.	South End Culdesac	860	24	2827	Concrete	2.00	76	\$900	\$0	25.1%	\$81,600	5%	\$0	\$0	Concrete	125.00	\$353,400
96	Deerfield Drive	Eagle Road	North End Culdesac	600	20	2013	Asphalt	0.50	213	\$2,600	\$0	6.3%	\$0	20%	\$8,100	\$80,500	Asphalt	115.00	\$231,500
110	Dewey(G																		

APPENDIX C
RECOMMENDED 10-YEAR ASSET MANAGEMENT PLAN

APPENDIX C
CITY OF KIRTLAND 10 YEAR ASSET MANAGEMENT PLAN

11/02/18

STREET NAME	(FROM)	(TO)	Description	Description	Possible Alternate Funding			Current Value Total Project Cost	Current Value Total Project Cost		Future Value Total Project Costs	YEAR YEAR		1	2	3	4	5	6	7	8	9	10		
					Source(s)	%	Amount					2019	2020	2021	2022	2023	2024	2025	2026	2027	2028				
			First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years	First 5 Years	Second 5 Years			
Chillicothe Road (East) (aka SR 306)	SR 306	Kirtland City Line (East)	ASPHALT PATCH REPAIRS (t = 1")	CRACK SEALING	ODOT	80%	\$0	\$ 69,100.00	\$ 52,400.00	\$ 16,700.00	3	7	\$75,500				\$55,600				\$19,900				
Woods Way Drive	Kirtland-Chardon Road	North End Culdesac	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 9,800.00	\$ 2,400.00	\$ 7,400.00	3	9	\$11,900				\$2,500							\$9,400	
Woodhill Road	Kirtland-Chardon Road	Forestdale Drive	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 5,900.00	\$ 1,400.00	\$ 4,500.00	3	9	\$7,200				\$1,500							\$5,700	
Heath Road	SR 6	Kirtland City Line (South)	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")	OPWC	50%	\$0	\$ 28,200.00	\$ 3,900.00	\$ 24,300.00	3	9	\$34,900				\$4,100							\$30,800	
Alexander Drive	SR 306	Florence Road	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 5,900.00	\$ 1,400.00	\$ 4,500.00	3	9	\$7,200				\$1,500							\$5,700	
Wilbert Drive	Billings Road	South End Culdesac	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 18,800.00	\$ 1,400.00	\$ 17,400.00	3	9	\$23,500				\$1,500							\$22,000	
Glen Park Road	Temple View Road	East End Dead End	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 6,500.00	\$ 1,600.00	\$ 4,900.00	3	10	\$6,100				\$1,700							\$6,400	
Gildersleeve Circle	Gildersleeve Drive	West End Culdesac	CRACK SEALING	GRIND / OVERLAY		0%	\$0	\$ 29,400.00	\$ 500.00	\$ 28,900.00	3	10	\$38,200				\$500							\$37,700	
Bluff Street	Maple Street	North End Dead End	CRACK SEALING	GRIND / OVERLAY		0%	\$0	\$ 34,300.00	\$ 1,100.00	\$ 33,200.00	3	10	\$44,500				\$1,200							\$43,300	
Briar Hill (2) Court	Briar Hill Drive	E-W Middle Culdesac	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 17,500.00	\$ 4,200.00	\$ 13,300.00	3	10	\$21,900				\$4,500							\$17,400	
Dearfield Drive	Eagle Road	North End Culdesac	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 10,700.00	\$ 2,600.00	\$ 8,100.00	3	10	\$13,400				\$2,800							\$10,600	
Shaw Avenue	Kirtland-Chardon Road	Thorne Avenue	CRACK SEALING	GRIND / OVERLAY		0%	\$0	\$ 45,600.00	\$ 700.00	\$ 44,900.00	3	10	\$59,300				\$700							\$58,600	
Grandview Drive	SR 6	North End Culdesac	GRIND / OVERLAY	NONE		0%	\$0	\$ 178,400.00	\$ 178,400.00	\$ -	4	0	\$195,000				\$195,000								
Hillcrest Road	Billings Road	North End Dead End	GRIND / OVERLAY	NONE		0%	\$0	\$ 179,100.00	\$ 179,100.00	\$ -	4	0	\$195,800				\$195,800								
Gildersleeve Drive	SR 6	East End Dead End	GRIND / OVERLAY	NONE		0%	\$0	\$ 281,700.00	\$ 281,700.00	\$ -	4	0	\$307,900				\$307,900								
Crestwood Drive (North)	Beechwood Drive	275' S. of Oakwood Dr.	GRIND / OVERLAY	NONE		0%	\$0	\$ 154,800.00	\$ 154,800.00	\$ -	4	0	\$169,200				\$169,200								
Christina Drive	Billings Road	South End Culdesac	CRACK SEALING	NONE		0%	\$0	\$ 7,300.00	\$ 7,300.00	\$ -	4	0	\$8,000				\$8,000								
Euclid-Chardon Road (West)	Kirtland City Line (West)	Chillicothe Road (aka SR30)	CRACK SEALING	NONE	ODOT	80%	\$0	\$ 42,300.00	\$ 42,300.00	\$ -	4	0	\$46,200				\$46,200								
Shetland Court	Rocking Horse Trail	East End Culdesac	CRACK SEALING	NONE		0%	\$0	\$ 600.00	\$ 600.00	\$ -	4	0	\$700				\$700								
Kildeer Road	SR 6	North End Culdesac	CRACK SEALING	NONE		0%	\$0	\$ 2,900.00	\$ 2,900.00	\$ -	4	0	\$3,200				\$3,200								
Foxwood Trail	Eagle Road	South End Culdesac	CRACK SEALING	NONE		0%	\$0	\$ 1,800.00	\$ 1,800.00	\$ -	4	0	\$2,000				\$2,000								
Kirtland-Chardon Road (Mid)	Booth Road	Sperry Road	ASPHALT PATCH REPAIRS (t = 1")	CRACK SEALING	OPWC	50%	\$0	\$ 129,200.00	\$ 106,600.00	\$ 22,600.00	4	7	\$143,500				\$116,500				\$27,000				
Dewey(Gem) Rd.	Sperry Road	Heath Road	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")	OPWC	50%	\$0	\$ 8,400.00	\$ 1,200.00	\$ 7,200.00	4	8	\$10,200				\$1,300				\$8,900				
Conley Road	SR 306	West End Dead End	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")		0%	\$0	\$ 2,500.00	\$ 1,000.00	\$ 1,500.00	4	10	\$3,100				\$1,100				\$2,000				
Partridge Trail	Eagle Road	Pheasant Lane	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")	OPWC	50%	\$0	\$ 12,400.00	\$ 3,000.00	\$ 9,400.00	4	10	\$15,600				\$3,300				\$12,300				
Garfield Road	Chillicothe Road	Kirtland City Line (North)	CRACK SEALING	ASPHALT PATCH REPAIRS (t = 1")	OPWC	50%	\$0	\$ 24,600.00	\$ 3,400.00	\$ 21,200.00	4	10	\$31,400				\$3,700				\$27,700				
Forestdale Road	North End Culdesac	South End Culdesac	GRIND / OVERLAY	NONE		0%	\$0	\$ 226,400.00	\$ 226,400.00	\$ -	5	0	\$254,900				\$254,900								
Longview Drive	Graylock Drive	North End Culdesac	GRIND / OVERLAY	NONE		0%	\$0	\$ 114,500.00	\$ 114,500.00	\$ -	5	0	\$128,900				\$128,900								
Palomino Trail	Bridlehurst Trail	West End Culdesac	GRIND / OVERLAY	NONE		0%	\$0	\$ 277,800.00	\$ 277,800.00	\$ -	5	0	\$312,800				\$312,800								
Chapin Falls Lane	Hobart Road	West End Culdesac	ASPHALT PATCH REPAIRS (t = 1")	CRACK SEALING		0%	\$0	\$ 8,200.00	\$ 7,100.00	\$ 1,100.00	5	0	\$6,000				\$8,000								
Euclid-Chardon Road (Mid)	Chillicothe Road (aka SR30)	Sperry Road	CRACK SEALING	NONE	ODOT	80%	\$0	\$ 36,000.00	\$ 36,000.00	\$ -	5	0	\$40,500				\$40,500								
Regency Woods Drive (North)	Cardinal Drive	Riverwood Way / Westwoo	GRIND / OVERLAY	CRACK SEALING	OPWC	50%	\$131,300	\$ 266,800.00	\$ 262,600.00	\$ 4,200.00	5	6	\$284,000				\$147,800	\$ 4,900							
Kelsey Court	Worell Road	East End Culdesac	CONCRETE JOINT REPAIR	TAR & CHIP		0%	\$0	\$																	

APPENDIX C
CITY OF KIRTLAND 10 YEAR ASSET MANAGEMENT PLAN

11/02/18