



Board of Road Commissioners	1
Chairperson's Letter of Welcome	3
Managing Director's Comments	5
2019 Primary Road Improvements	8
2020 Adopted Budget	11
2020 Primary Road Improvements	16
Five-Year Improvement Program	19





Mark Rambo was appointed to the Board of the Kent County Road Commission in 2009 and has served as Chair since 2012. He holds a master's degree in public administration and is currently the Deputy City Administrator for the City of Kentwood. Previously, he has served as Manager of Operations for Grand Valley State University, the Manager of Howard City and the Engineering Programs Coordinator for the City of Walker.



Cynthia Porter Janes was appointed to the Board of the Kent County Road Commission in 2015 and has served as Vice Chair since January 2017. Commissioner Janes is the Architectural & Engineering Services Director at Fishbeck, Thompson, Carr & Huber (FTCH) and previously worked as an Education Practice Leader for AECOM. Commissioner Janes serves as a commissioner of the Kent County Board of Public Works and trustee of the Grand Rapids Public Museum. Previously, Commissioner Janes served six years on the GVMC board (five years on the Executive Committee); five years on the Cascade Township Planning Commission (including one year as chair); seven years as township trustee, elected to the Cascade Township Board; and nine years on the Board of Directors for the Cascade Community Foundation.



Dave Medema was appointed to the Board of the Kent County Road Commission in 2017. Commissioner Medema is owner of Medema Consulting Associates LLC, which was established in 1999, and has served as board member of the Michigan League for Public Policy. Commissioner Medema has also been a member of the City of Grand Rapids Community Relations Commission, Board of Zoning Appeals and Community Development Citizens Committee. Commissioner Medema is a graduate of Calvin College, has a Master of Social Work degree from Arizona State University and studied at New Brunswick Theological Seminary. He is a certified coach and trainer for the Right Use of Power Institute in Boulder, Colorado. An avid bicyclist, Commissioner Medema proudly completed a ride from San Francisco, California, to Grand Rapids in 2011.





David J. Morren was appointed to the Board of the Kent County Road Commission in 2014. Previously, Commissioner Morren served on Kent County Board of Commissioners for 14 years, serving three years as Chairman and sitting on various public boards during his tenure. Commissioner Morren is the owner of Insignia Homes and has served as elder and deacon of his church.



Robert VerHeulen was appointed to the Board of the Kent County Road Commission in 2019. Commissioner VerHeulen formerly served three terms in the Michigan House of Representatives, chairing the Michigan House Appropriations Subcommittee on Transportation from 2013 to 2014. He also served as mayor of Walker, Michigan from 2001 to 2012. Before taking public office, Commissioner VerHeulen worked as an attorney for Meijer Inc. and most recently as the Vice President and Deputy General Counsel to The Meijer Foundation. He also served on several boards for non-profit and philanthropic organizations throughout the community. Commissioner VerHeulen attended Grand Rapids Community College and graduated from the University of Michigan, receiving his juris doctorate from Wayne State University.

Managing Director



Steven A. Warren was named Managing Director of the Kent County Road Commission in 2013. During nearly 31 years of service to the commission, he has managed KCRC's long and short-range planning programs, environmental studies and major improvement projects. Mr. Warren also developed KCRC's Asset Management Program, which integrates the organizations' Pavement Management, Performance Management and Geographic Information Systems. Prior to joining KCRC, Mr. Warren served as Director of the Metropolitan Planning Organization (MPO) for the Grand Rapids Metropolitan Area and worked as Transportation Planner for the Northwest Regional Planning Commission in Traverse City, Michigan.



November 1, 2019

Re: FY 2020 Operating Budget

Greetings Kent County Stakeholders:

On behalf of the Kent County Board of Road Commissioners, I would like to thank our local, state, and federal partners for their sense of collaboration and commitment to improving the transportation infrastructure within Kent County.

I also want to recognize and thank the entire Road Commission staff for their daily efforts to reach our vision of having the premier county transportation network in Michigan. Their proactive team approach and positive customer service embodies the spirit of an effective organization. These efforts continue to keep Kent County at the forefront of construction, preservation, and innovation.

Please visit us online to review our Performance Management summary and keep current with our daily activities. Asset management and continuous performance improvement are at the core of our decision making. We take pride in the transparency of our annual data tracking, analyzing, and reporting in the form of an online dashboard and hope that it provides insight into the overall scope of our transportation activities.

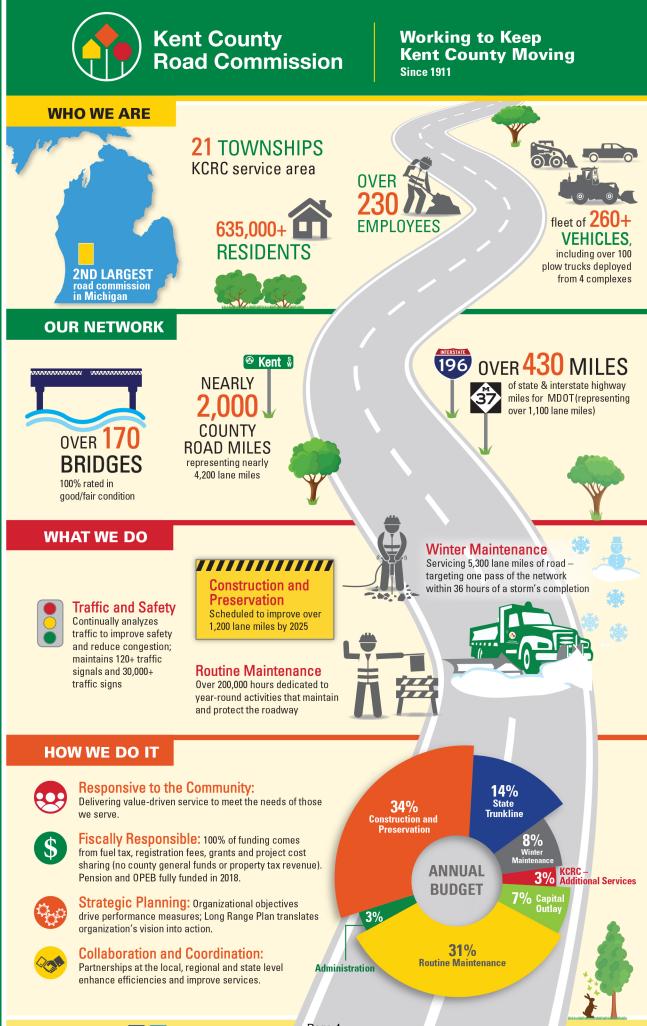
The Board and staff of the Kent County Road Commission continue to appreciate the strong support and open lines of communication between our township leaders and local elected officials. We hope the enclosed information helps facilitate understanding of the role of the Kent County Road Commission.

Please feel free to contact any of us with questions or concerns at any time.

Sincerely,

Mark E Carlo

Mark E. Rambo Chairperson



kentcountyroads.net 두 😏 @MIKCRC

Page 4



MEMORANDUM

To:Kent County Board of Road CommissionersFrom:Steve Warren, Managing DirectorDate:November 1, 2019Subject:2020 Operating Budget

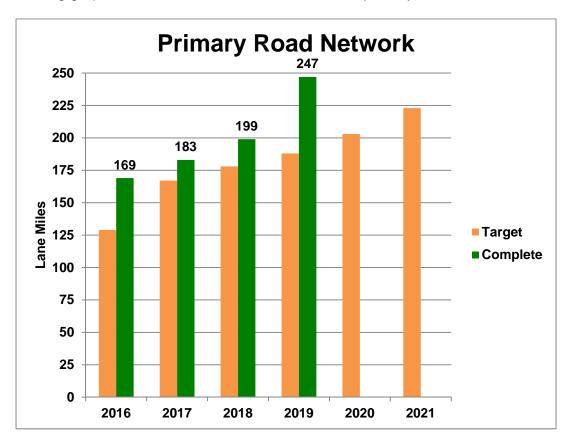
I am pleased to present the Kent County Road Commission fiscal year 2020 operating budget. As the county's road agency, we are continually *working to keep Kent County moving*, and the projects and activities articulated in this budget represent how we intend to achieve success in 2020. This document demonstrates how the dedicated men and women of KCRC will continue to improve county roads, maintain the state highway network, and provide quality services to the citizens of Kent County.

A review of the budget's Appropriation Act (pg. 11) and supporting schedules (pgs. 12 – 15) helps one appreciate the wide range of activities KCRC undertakes to provide safe and efficient travel along nearly 2000 miles of county roads and over 400 miles of state highways we maintain. Also represented are collaborative efforts with our local, county, and state government partners to expand non-motorized facilities throughout the area.

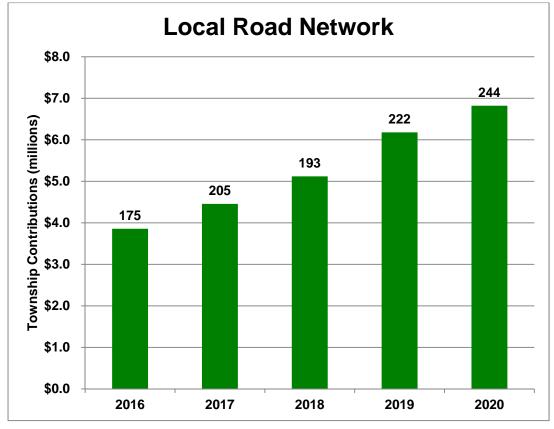
2019 Review

The Kent County Road Commission Long Range Plan serves as a blueprint for the effective investment of resources aligned with preserving and improving the quality and safety of our road network. I am pleased to share that, during the 2019 construction season, the plan's primary road improvement targets were not only met, but exceeded. In addition, on the local road network, KCRC continued to support its township partners. Together, we increased investment through KCRC's matching program.

Working to keep Kent County moving



The following graphs illustrate achievements on KCRC's primary and local road networks.



Working to keep Kent County moving

1500 Scribner Avenue NW, Grand Rapids, MI 49504 | (616) 242-6900 | kentcountyroads.net

Looking Ahead to 2020

Fiscal year 2020 represents the third year of the "phased-in" implementation of the 2015 Transportation Funding Package. KCRC will continue to commit 100% of this funding increase to improving road and bridge conditions by dedicating 75% to reconstruction, resurfacing and preservation and 25% to routine maintenance.

Unlike the last fiscal year, the 2020 budget does not include any "supplemental appropriation" revenue from the Michigan Legislature to accelerate needed improvement projects. As I write this memo, the Governor and Legislature have not reached agreement on either a long-term funding program or one-time annual budget appropriation to increase funding for roads.

With the funding that is available, KCRC will continue to employ an overall strategy that incorporates a "mix of fixes" approach to needed road improvements. Our improvement "toolbox" includes pavement preservation treatments, resurfacing, reconstruction and essential routine maintenance. Combined, these actions will help restore "poor" roads to good or fair condition and then preserve the assets for years to come.

Our Partners

The success of the Kent County Road Commission is dependent on maintaining positive relationships with township, county, city, and state officials. I want to thank these partners for their ongoing support and collaboration. Together, we have worked to improve the overall condition of KCRC's road network to the benefit of the people and businesses we serve.



RECONSTRUCTION

76th Street - Clyde Park Avenue to Gordon Industrial Drive

Widened the existing 4-lane portion to 5 lanes. Work included bridge rehabilitation and widening, railroad crossing widening, concrete curb and gutter, drainage, HMA pavement, pavement markings and restoration.

100th Street - East of Eastern Avenue to Kalamazoo Avenue

Reconstructed to 2-lane all season road standard. Work included tree removal, earthwork, valley gutter, ditches, culvert replacement, HMA Pavement, pavement markings and restoration.

Full depth pavement removal and Hot Mix Asphalt (HMA) replacement:

- 5 Mile Road Plainfield Avenue to East Beltline Avenue
- **Byron Center Avenue –** 92nd Street to 84th Street
- Cascade Road Forest Hill Avenue to Spaulding Avenue
- Kraft Avenue 36th Street to 28th Street
- Lamoreaux Drive Alpine Avenue to West River Drive
- Whitneyville Avenue 66th Street to 48th Street

Crush and shape existing pavement and HMA replacement:

- **13 Mile Road –** Peach Ridge Avenue to M-37
- 6 Mile Road Walker Avenue to Alpine Avenue
- 7 Mile Road Fruit Ridge Avenue to Alpine Avenue
- 76th Street Sierrafield Drive to Clyde Park Avenue
- Lincoln Lake Avenue North city limits to McPherson Street

RESURFACING

Thornapple River Drive – Cascade Road to north of Fase Street

PRESERVATION

Freeport Avenue – 108th Street to 84th Street

<u>SAFETY</u>

Patterson Avenue and 44th Street

Widened to provide dual left-turn lanes on eastbound 44th Street to northbound Patterson Avenue. The work included asphalt and concrete pavement removal, concrete curb and gutter, concrete pavement, pavement markings, restoration and traffic signal modifications.

<u>SAFETY</u>

Crahen Avenue and Leonard Street

Realigned Crahen Avenue northwesterly into Leonard Street. Leonard Street east is now the stop street. Work included earthwork, utility relocation, drainage, HMA pavement, pavement markings and restoration.

Traffic Signal Projects

These projects include the upgrade of the existing traffic signal, or installation of a new signal, with box configuration, LED signal heads, backplates and detection.

- 68th Street and Hanna Lake Avenue
- Cascade Road and 36th Street
- Jupiter Avenue and Rogue River Drive
- Pettis Avenue and Vergennes Street
- Robinson Road and Lakeside Drive
- Wolverine Boulevard and Kroes Street
- West River Drive and North Division Avenue (new signal)

BRIDGES AND CULVERTS

Algoma Bridge #52 – 10 Mile Road over the Rouge River

Preventative maintenance project included expansion joint replacement, substructure repair, concrete box beam repair and spot box beam replacement.

Byron Bridge #25 – 76th Street over Buck Creek

Part of the 76th Street project, this bridge replacement utilized a precast 3-sided concrete structure.

Caledonia Bridge #30 – 100th Street over the Thornapple River

Preventative maintenance project included deck joint replacement; extensive concrete substructure repair and streambed scour protection.

Cascade Bridge #27 – Thornapple River Drive over unnamed tributary

Culvert rehabilitation project repaired a portion of the existing twin corrugated metal pipe arches with a reinforced concrete bottom and sidewalls.

NON-MOTORIZED

Caledonia Trail Phase 1B

Constructed a 10-foot wide asphalt non-motorized trail extending from the existing Paul Henry Thornapple Trail within Caledonia Lakeside Park northeast to 92nd Street and Cherry Valley Avenue and north to 84th Street. Local match provided by Caledonia Township.

Fred Meijer Pioneer Trail Phase 2

Constructed a 10 foot wide asphalt non-motorized trail extending from Alpine Avenue and 3 Mile Road easterly along 3 Mile Road to end. Then northeast along I-296 ramp to Hillside Drive and southerly to Lankamp Street and West River Drive. Local match provided by the County of Kent.

Paul Henry Thornapple Trail (Dutton Spur)

Constructed a 10-foot wide asphalt non-motorized trail extending from the existing Paul Henry Trail north of 76th Street and northwest along the abandoned railroad bed, connecting west to Dutton Park and North to 68th Street. Local match provided by Gaines Township.

Fred Meijer Flat River Valley and Grand River Valley Rail Trail (On-Going)

Improvements to existing abandoned rail grades between City of Lowell and City of Greenville and the City of Lowell and City of Saranac to provide a 10foot wide unpaved non-motorized trail. Work includes bridge and culvert work, crushed asphalt and grading. Local match is being provided by City of Greenville and the County of Ionia.



Kent County Road Commission

2020 Adopted Budget Appropriation Act

	2018 Actual	2019 Amended Budget	2020 Budget	Attachment
Revenue				
Michigan Transportation Funds (MTF) State General Fund	\$ 45,141,282	\$ 47,095,879	\$ 53,865,467	
Surplus Appropriation	3,348,139	5,764,383	-	
Additional Appropriation	-	1,000,000	-	
Federal and State Grants				
Motorized	5,024,208	7,263,584	6,591,097	A
Non-Motorized	1,157,935	4,098,000	336,000	A
State Trunkline contract	9,524,664	11,500,000	10,500,000	
Local Government Contributions	5,606,535	10,944,500	7,010,175	
Services Provided	1,734,369	2,300,000	1,800,000	
Sale of Capital Assets and salvage	447,555	350,000	300,000	
Property Rental	177,220	165,000	175,000	
Interest	284,035	500,000	650,000	
Total Revenue	72,445,942	90,981,346	81,227,739	
Expenditures				
Primary Roads				
Reconstruction	9,013,583	16,305,000	11,220,000	
Resurfacing	1,230,193	780,000	1,000,000	
Preservation	4,454,448	3,800,000	4,155,000	
Safety	4,195,626	4,095,000	3,280,000	
Bridges and Culverts	553,206		1,000,000	
Total Primary Roads	19,447,056		20,655,000	А
Local Roads	7 040 440	40,400,000	44 000 050	
Reconstruction	7,319,146	10,160,000	11,038,350	
Resurfacing	1,566,728	1,146,000	1,409,000	
Preservation	3,585,657 438,898	3,595,000	3,820,000	
Safety Bridges and Culverts		1,026,500	596,000	
Total Local Roads	825,101 13,735,530	<u> </u>	500,000 17,363,350	
	, ,			
Routine Maintenance	E 0.50 (00	7 405 000	0 500 000	
State	5,652,463	7,195,000	6,500,000	_
Primary	5,493,969	7,500,000	8,325,000	В
Local Total Routine Maintenance	8,486,886	9,000,000	9,825,000	В
Total Routine Maintenance	19,633,318	23,695,000	24,650,000	
Winter Maintenance				
State	3,863,849	4,305,000	4,000,000	
Primary	2,496,880	2,800,000	3,140,000	
Local	2,397,408		3,140,000	
Total Winter Maintenance	8,758,137	9,850,000	10,280,000	
Non-Motorized	1,676,108	6,987,000	525,000	А
Equipment Operations	1,225,159	1,499,650	909,500	7.
Capital Outlay	.,0,.00	.,,		
Buildings	471,212	782,000	980,000	С
Equipment	4,273,707	5,354,000	3,539,500	C
Depreciation	(3,873,669		(4,100,000)	C C
Services Provided	1,132,102		1,500,000	
Administration	2,346,801	2,500,000	2,750,000	D
Contingency	_,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_	5,125,000	5,000,000	
Total Expenditures	68,825,461	97,440,150	84,052,350	
Revenues Over (Under) Expenditures	3,620,481	(6,458,804)	(2,824,611)	
Fund Balance, Beginning of Year	19,135,974	22,756,455	16,297,651	
Projected Fund Balance, End of Year	\$ 22,756,455	\$ 16,297,651	\$ 13,473,040	

2020 Adopted Budget Primary Road Projects Attachment A

				Lane				Source of Fund	ls		
Category	Road	Limits	Miles	Miles	Improvement		KCRC	Federal/State	L	.ocal P	Project Tota
Reconstru	ction										
Expa	insion/All-Season										
	84th St.	Division Ave. to Eastern Ave.	1.0	3.0	Reconstruct to 3 lanes	\$	384,739	\$ 1,040,261		\$	1,425,000
	84th St.	Kalamazoo Ave. to Breton Ave.	1.0	2.0	All-Season		420,000	1,120,000			1,540,000
	68th St.	Burlingame Ave. to Clyde Park Ave.	1.0		Widen to 3 lanes		313,500	566,500			880,000
	Segwun Ave.	Alden Nash Ave. to Grand River Dr.	0.5		Reconstruct/Widen to 3 lanes		261,986	713,014			975,000
	100th St.	E. and W. of US-131	0.2	0.6	Reconstruct Approach to 3 lanes	s	518,678	301,322			820,000
	Preliminary Engineerir	ng					300,000	-			300,000
Full I	Depth Pavement										
	68th St.	Byron Center Ave. to Burlingame Ave.	1.0	5.0	Resurface		298,500	646,500			945,000
	Fruit Ridge Ave.	6 Mile Rd. to 10 Mile Rd.	4.0	8.0	Resurface		593,000	877,000			1,470,000
	Knapp St.	E. City Limit to East Beltline Ave.	1.0	5.0	Resurface		198,500	426,500			625,000
	Leffingwell Ave.	City limits to Knapp St.	0.5	1.5	Resurface		265,000				265,000
	Grand River Dr.	Snow to Segwun	4.5	9.0	Resurface		275,000	900,000			1,175,000
	Various Locations	-	2.5	5.0	Resurface		800,000				800,000
Total Reco	nstruction		17.2	43.6	-		4,628,903	6,591,097		-	11,220,000
Resurfacin	Ig										
	Overlays	Various Locations	5.0	11.0	Resurface		1,000,000				1,000,000
Total Resu	facing		5.0	11.0	_		1,000,000	-		-	1,000,000
Preservatio	on										
	Surface Treatments	Various Locations	75.0	165.0	Sealcoat and Micro Surface		3,705,000				3,705,000
	Thin Overlays		4.6	10.0			450,000				450,000
Total Prese	rvation		79.6	175.0	-		4,155,000	-		-	4,155,000
Safety											
	Various Locations				Capacity / Safety Improvement		500,000				500,000
	Northland Dr. and 13	Mile Rd.			Signal Upgrade		150,000				150,000
	Thornapple River Dr. a				Signal Upgrade		150,000				150,000
	Cascade Rd. and Lara				Signal Upgrade		150,000				150,000
	West River Dr. and W	/est River Center			Signal Upgrade		150,000				150,000
	West River Dr. and La	amoreaux Dr.			Signal Upgrade		150,000				150,000
		Gates @ Grand Elk RR			Crossing Gates		400,000				400,000
Total Safety	ý						1,650,000	-		-	1,650,000
Bridges an	d Culverts										
	Preventive Maintenan	c Various Locations					1,000,000				1,000,000
Total Bridge	es and Culverts						1,000,000	-		-	1,000,000
Total Prima	ary Road Projects		101.8	229.6	-	\$1	2,433,903	\$ 6,591,097	\$	- \$	19,025,000
Non Motor	ined										
Non-Motor	4 Mile sidewalk							105,000		70,000	175,000
	Nelson Twp Trail							231,000		119,000	350,000
	·										
Total Non-	wotorized							\$ 336,000	\$	189,000 \$	525,000

2020 Adopted Budget Routine Maintenance Attachment B

Primary									
		2018		2019		2020			
		Actual	Am	ended Budget		Budget			
Adopt-a-Road Expenses		15,755		28,409		29,829			
Bridge Preventative Maint.		1,071		113,636		119,318			
Brush back mowing		-		227,273		238,637			
Crack sealing		168,711		340,909		357,954			
Drainage And Backslopes		1,092,321		1,136,364		1,243,182			
Grass And Weed Control		302,786		397,727		617,613			
Guard Rail & Posts		27,913		56,818		259,659			
Partial Depth Mill and Fill		-		113,636		119,318			
Restoration		38,729		34,091		35,796			
Roadside Cleanup		73,261		85,227		89,488			
Shoulder Maintenance		320,772		454,545		477,272			
Spot Mill and Fill		1,186		340,909		357,954			
Supervision		526,102		568,182		596,591			
Surface Maintenance		1,781,435		2,272,727		2,386,363			
Sweeping And Flushing		204,412		170,455		178,978			
Trees And Shrubs		920,431		1,136,364		1,193,182			
Weight Limit Signing		19,085		22,728		23,864			
Total Primary	\$	5,493,969	\$	7,500,000	\$	8,325,000			

		Loca	al		
	2		2019	2020	
Description Actual				Budget	 Budget
Adopt-a-Road Expenses		8,353		10,778	 11,317
Bridge Preventative Maint.		-		53,892	56,587
Brush back mowing		-		107,784	113,173
Crack sealing		95,291		107,784	113,173
Drainage And Backslopes	ge And Backslopes 2,041,580 1,886,228				2,130,539
Dust Control	control 406,160 485,03				509,282
Grass And Weed Control		322,566		323,353	339,521
Guard Rail & Posts	& Posts 19,077 53,892				56,587
Restoration	ation 82,835 80,8				84,880
Roadside Cleanup		49,093		53,892	56,587
Shoulder Maintenance		200,268		269,461	282,934
Supervision		648,030		646,707	679,042
Surface Maintenance		3,029,585		3,233,533	3,395,210
Sweeping And Flushing		68,875		43,114	120,270
Trees And Shrubs		1,492,862		1,616,766	1,847,604
Weight Limit Signing		22,312		26,948	 28,295
Total Local	\$	8,486,886	\$	9,000,000	\$ 9,825,000

2020 Adopted Budget Capital Outlay Attachment C

Buildings	Unit Cost	I	2020 Budget
Pave drive & storage area at North		\$	250,000
Replace underground fuel storage tanks at North Relocate blade pit at South			250,000 250,000
Add road material storage bunkers at North			100,000
Pave drive & storage area at Central			100,000
Replace boiler at North			30,000
Total Buildings		\$	980,000
Plow Trucks Five Axle Truck			
1 Chassis	140,000		140,000
1 Live bottom v-box	70,000		70,000
1 Underbody scraper	8,000		8,000
Labor to complete truck Single Axle Truck			32,000
8 Chassis	110,000		880,000
8 Underbody scraper	8,000		64,000
8 Wing	7,000		56,000
Labor to complete trucks Total Large Trucks			480,000 1,730,000
Heavy Equipment			
Replacements			
1 Loader 2 Tractor	170,000		170,000
2 Tractor 2 Side mower	85,000 25,000		170,000 50,000
2 Rear mower	10,000		20,000
1 Excavator	170,000		170,000
1 Mini excavator	70,000		70,000
2 Skid steer 2 Clam bucket	80,000 5,000		160,000 10,000
2 Trailer - 16,000 lb	18,000		36,000
1 Trailer - 50,000 lb	40,000		40,000
1 Durapatcher	75,000		75,000
1 Tar kettle 1 Enclosed trailer	15,000 10,000		15,000 10,000
Additions			
1 Hotpatcher	24,000		24,000
1 Chipper	60,000		60,000
1 Trailer-mounted compressor Total Heavy Equipment	20,000		20,000
Small Equipment			,,
Winter Equipment			
1 Front plow - left	9,000		9,000
1 Front plow - right	9,000		9,000
1 Front v-plow Power Tools	9,000		9,000 10,000
Shop Tools			10,000
Total Winter Equipment			47,000
Work Trucks			
1 1 ton 4x2 SRW crew cab 2 1 ton 4x2 DRW crew cab	35,000 65,000		35,000 130,000
1 1 ton 4x2 DRW crew cab	65,000 41,000		41,000
2 1 ton 4x4 SRW extended cab with plow and utility box	48,000		96,000
1 1 ton 4x4 SRW crew cab with plow and lift gate	50,000		50,000
3 1/2 ton 4x4 extended cab	36,000		108,000
1 1/2 ton 4x4 extended cab Total Work Trucks	30,000		30,000 490,000
Passenger vehicles			
4 Cars/SUV	30,000		120,000
Engineering	40.000		00.000
2 Nuclear density gauges 1 Robotic total station	10,000 22,500		20,000 22,500
1 Drone with FPV goggles	22,500		10,000
Total Engineering	,		52,500
		\$	3,539,500

2020 Adopted Budget Administration Attachment D

	2018		2019	2020
	 Actual	Amen	nded Budget	 Budget
Advertising	\$ 53,159	\$	40,000	\$ 50,000
Depreciation	63,530		59,000	65,000
Equipment Rental	38,152		36,000	46,000
Information Technology	154,309		100,000	150,000
Insurance	58,755		80,000	80,000
Personnel Costs	1,524,784		1,766,000	1,900,000
Professional Services	187,130		158,000	205,000
Repairs and Maintenance	92,027		95,000	75,000
Supplies	105,009		100,000	110,000
Training and Travel	19,592		17,000	20,000
Utilities	135,031		139,000	149,000
Handling Charges on Materials Sold	(78,553)		(85,000)	(95,000)
Purchase Discounts	 (6,125)		(5,000)	 (5,000)
Total Administration	\$ 2,346,801	\$	2,500,000	\$ 2,750,000

Kent County Road Commission

RECONSTRUCTION

84th Street – Division Avenue to Eastern Avenue

Widen existing 2-lane portion to 3 lanes. Work includes tree removal, earthwork, concrete curb and gutter, drainage, sanitary sewer (Gaines Township) HMA pavement, pavement markings and restoration.

84th Street – Kalamazoo Avenue to Breton Avenue

Reconstruct to 2-lane all-season road standard. Work includes tree removal, earthwork, ditches, culvert replacement, HMA pavement, pavement markings and restoration. Through traffic will be detoured.

68th Street – Burlingame Avenue to Clyde Park Avenue

Widen existing 2-lane portions to 3 lanes. Work includes earthwork, concrete curb and gutter, drainage, HMA pavement, pavement markings and restoration.

Segwun Avenue – Alden Nash Avenue to Grand River Drive

Widen existing 2-lane road to 3 lanes. Work includes earthwork, concrete curb and gutter, drainage, HMA pavement, pavement markings and restoration.

100th Street – East and West of US-131

Reconstruct and widen approaches in conjunction with replacement of the bridge over US-131. Work includes earthwork, drainage, HMA pavement, pavement markings and restoration.

6 Mile Road - Fruit Ridge Avenue to Walker Avenue

Crush and shape the existing asphalt surface and place 2 courses of hot mix asphalt (HMA). Through traffic will be detoured.

68th Street – Byron Center Avenue to Burlingame Avenue

Cold mill existing 5-lane asphalt surface and place 2 courses of HMA. Two-way traffic will be maintained.

Fruit Ridge Avenue – 6 Mile Road to 10 Mile Road

Crush and shape the existing asphalt surface and place 2 courses of HMA. Through traffic will be detoured.

Knapp Street - East City Limit to East Beltline Avenue

Cold mill existing 2-lane to 6-lane asphalt surface and place 2 courses of HMA. Through traffic will be detoured west of Leffingwell Avenue and maintained east.

Leffingwell Avenue - City Limits to Knapp Street

Cold mill existing 3-lane asphalt surface and resurface with 2 courses of HMA. Two-way traffic will be maintained.

Grand River Drive – Snow Avenue to Segwun Avenue

Cold mill existing asphalt surface and place 2 courses of HMA. Two-way traffic will be detoured.

<u>SAFETY</u>

Hanna Lake Avenue south of 60th Street

Extend left turn lane south in coordination with new traffic signal. Work will be completed using shoulder closures and short duration closure.

Kraft Avenue and 68th Street

Remove existing building, outbuildings and stockade fence. Traffic will be maintained.

Traffic Signal Projects

These projects include the upgrade of the existing traffic signal, or installation of a new signal, with box configuration, LED signal heads, backplates and detection.

- Cascade Road and Laraway Lake Drive
- Northland Drive and 13 Mile Road
- Thornapple River Drive and Laraway Lake Drive
- West River Drive and West River Center
- West River Drive and Lamoreaux Drive
- 84th Street and Byron Commerce Drive (new signal)

BRIDGES AND CULVERTS (PRIMARY & LOCAL)

Alpine Bridge #27 – Vinton Avenue over Mill Creek

Culvert rehabilitation project to repair a portion of the existing twin corrugated metal pipe arches. Traffic will be detoured.

Lowell Bridge #16 – Jackson Street over the Grand River

Preventative maintenance project including deck expansion joint replacement, and concrete substructure repair. Traffic will be detoured.

Sparta Bridge #20 – Peach Ridge Avenue 0.6 Mile North of 13 Mile Road

Culvert replacement project to remove the existing corrugated metal pipe arches and install a precast concrete box culvert. Traffic will be detoured.

Spencer Bridge #16 – Hatch Avenue over Black Creek

Culvert rehabilitation project to repair a portion of the existing triple corrugated metal pipe arches. Traffic is currently detoured.

NON-MOTORIZED

Fred Meijer River Valley Rail Trails (continuation)

Improvements to existing abandoned rail grades between City of Lowell and City of Greenville; and the City of Lowell and City of Saranac to provide a 10-foot wide unpaved non-motorized trail. Work includes bridge and culvert work, crushed asphalt and grading. Local match provided by City of Greenville and the County of Ionia.

Fred Meijer Pioneer Trail Phase 5

Construction of a 10 foot wide asphalt non-motorized trail extending along the east side of West River Drive between Lankamp Street and North Park Street. Local match provided by the County of Kent.

Nelson Township Trail

Construction of a 10 foot wide asphalt non-motorized trail extending from Cedar Springs High School south and east to the Ritchie Avenue Sports Complex. Local match provided by Nelson Township.

4 Mile Road Sidewalk

Construction of a 5 to 6 foot wide concrete sidewalk along the north side of 4 Mile Road extending from Yorkview Drive to West River Drive. Local match provided by Alpine Township.

100th Street Trail

Construction of a 10 foot wide asphalt non-motorized trail along the south side of 100th Street from west of US-131 easterly to Division Avenue. Local match provided by Byron Township.

Five-Year Improvement Program 2020 Primary Road Projects

			Lane			Source of Funds						_
Category	Road	Limits	Miles	Miles	Improvement	KCRC	Fe	deral/State	Local	Pr	oject Total	Program
Reconstruct	tion											
	nsion/All-Season											
•	84th St.	Division Ave. to Eastern Ave.	1.0	3.0	Reconstruct to 3 lanes	\$ 384,739	\$	1,040,261		\$	1,425,000	EDF-C
	84th St.	Kalamazoo Ave. to Breton Ave.	1.0	2.0	All-Season	420,000		1,120,000			1,540,000	STP-U
	68th St.	Burlingame Ave. to Clyde Park Ave.	1.0	3.0	Widen to 3 lanes	313,500		566,500			880,000	STP-Fle
	Segwun Ave.	Alden Nash Ave. to Grand River Dr.	0.5	1.5	Reconstruct/Widen to 3 lanes	261,986		713,014			975,000	STP-Fle
	100th St.	E. and W. of US-131	0.2	0.6	Reconstruct Approach to 3 lanes	518,678		301,322			820,000	STP-U
	Preliminary Engineering	9				300,000		-			300,000	
Full D	Depth Pavement											
	68th St.	Byron Center Ave. to Burlingame Ave.	1.0	5.0	Resurface	298,500		646,500			945,000	EDF-C
	Fruit Ridge Ave.	6 Mile Rd. to 10 Mile Rd.	4.0	8.0	Resurface	593,000		877,000			1,470,000	STP-R
	Knapp St.	E. City Limit to East Beltline Ave.	1.0	5.0	Resurface	198,500		426,500			625,000	STP-U
	Leffingwell Ave.	City limits to Knapp St.	0.5	1.5	Resurface	265,000					265,000	
	Grand River Dr.	Snow Ave. to Segwun Ave.	4.6	9.2	Resurface	275,000		900,000			1,175,000	STP-R
	Various Locations		2.5		Resurface	800,000					800,000	_
Fotal Recons	struction		17.3	43.8		4,628,903		6,591,097		-	11,220,000	
Resurfacing												
	Overlays	Various Locations	5.0		Resurface	1,000,000					1,000,000	
Fotal Resurfa	acing		5.0	11.0		1,000,000		-		-	1,000,000	
Preservation												
	Surface Treatments	Various Locations	82.0		Sealcoat and Micro Surface	3,705,000					3,705,000	
	Thin Overlays		15.0	33.0	_	450,000					450,000	-
Fotal Preserv	vation		97.0	213.4		4,155,000		-		-	4,155,000	
Safety												
	Various Locations				Capacity / Safety Improvement	500,000					500,000	
	Northland Dr. and 13 M				Signal Upgrade	150,000					150,000	
	Thornapple River Dr. a				Signal Upgrade	150,000					150,000	
	Cascade Rd. and Laray				Signal Upgrade	150,000					150,000	
	West River Dr. and We				Signal Upgrade	150,000					150,000	
	West River Dr. and Lar				Signal Upgrade	150,000					150,000	
	76th St. RR Crossing G	ates @ Grand Elk RR			Crossing Gates	400,000					400,000	_
otal Safety						1,650,000		-		-	1,650,000	
Bridges and						4 000 000					4 000 000	
Fotal Bridges	Preventive Maintenanc s and Culverts	e various Locations				<u>1,000,000</u> 1,000,000		-		-	1,000,000	-
Ū			110.2	260 2		¢ 10 /00 000	¢	6 504 007	¢	¢		
i otal Prima	ry Road Projects		119.3	268.2	-	\$ 12,433,903	\$	6,591,097	<u>۵</u>	- >	19,025,000	=
Non-Motoriz	zed											
	4 Mile sidewalk							105,000	70,000)	175,000	
	Nelson Twp Trail							231,000	119,000)	350,000	_
Total Non-M	lotorized						\$	336,000	\$ 189 00		525,000	
	101011260						ψ	550,000	ψ 103,000	ψι	JZJ,000	=

Five-Year Improvement Program 2021 Primary Road Projects

11	/01/	2019
----	------	------

t. vement e Rd. t. Rd. idge Ave. sion Ave. eyville Ave.	Limits Kalamazoo Ave. to 1 Mile East Cherry Valley Ave. to Thornapple River Dr. Breton Ave. to Hanna Lake Ave. Grange Ave. to Edgerton Ave. Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd. 76th St. to 68th St.	Miles 1.0 1.0 1.0 2.3 3.0 1.8	2.0 2.0 4.6	Improvement All-Season All-Season All-Season Resurface	KCRC \$ 405,000 1,250,000 318,550 230,000	981,450	1,250,000 1,300,000	STP-U
St. t. vement e Rd. t. Rd. idge Ave. sion Ave. eyville Ave.	Cherry Valley Ave. to Thornapple River Dr. Breton Ave. to Hanna Lake Ave. Grange Ave. to Edgerton Ave. Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.	1.0 1.0 2.3 3.0	2.0 2.0 4.6	All-Season All-Season	1,250,000 318,550	981,450	1,250,000 1,300,000	STP-U
St. t. vement e Rd. t. Rd. idge Ave. sion Ave. eyville Ave.	Cherry Valley Ave. to Thornapple River Dr. Breton Ave. to Hanna Lake Ave. Grange Ave. to Edgerton Ave. Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.	1.0 1.0 2.3 3.0	2.0 2.0 4.6	All-Season All-Season	1,250,000 318,550	981,450	1,250,000 1,300,000	STP-U
St. t. vement e Rd. t. Rd. idge Ave. sion Ave. eyville Ave.	Cherry Valley Ave. to Thornapple River Dr. Breton Ave. to Hanna Lake Ave. Grange Ave. to Edgerton Ave. Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.	1.0 1.0 2.3 3.0	2.0 2.0 4.6	All-Season All-Season	1,250,000 318,550	981,450	1,250,000 1,300,000	STP-U
t. vement e Rd. t. Rd. idge Ave. sion Ave. eyville Ave.	Breton Ave. to Hanna Lake Ave. Grange Ave. to Edgerton Ave. Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.	1.0 2.3 3.0	2.0 4.6	All-Season	1,250,000 318,550	981,450	1,250,000 1,300,000	STP-U
t. vement e Rd. t. Rd. idge Ave. sion Ave. eyville Ave.	Breton Ave. to Hanna Lake Ave. Grange Ave. to Edgerton Ave. Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.	2.3 3.0	4.6					
e Rd. t. Rd. idge Ave. sion Ave. eyville Ave.	Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.	3.0		Resurface	230 000	770 000		
t. Rd. idge Ave. sion Ave. yville Ave.	Hanna Lake Ave. to Kraft Ave. Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.	3.0		Resurface	230 000	770 000		
Rd. idge Ave. sion Ave. ayville Ave.	Alpine Ave. to Pine Island Dr. 4 Mile Rd. to 6 Mile Rd.		15.0		200,000	770,000	1,000,000	EDCF
idge Ave. sion Ave. eyville Ave.	4 Mile Rd. to 6 Mile Rd.	1.8	15.0	Resurface	350,668	849,332	1,200,000	STP-U
sion Ave. eyville Ave.			3.6	Resurface	238,000	462,000	700,000	EDCF
eyville Ave.	76th St. to 68th St	2.0	4.0	Resurface	800,000		800,000	
		1.0	5.0	Resurface	283,000	717,000	1,000,000	NH
rine Blvd.	I-96 to Cascade Rd.	1.0		Resurface	161,260	188,740	350,000	STP-U
	10 Mile Rd. to 11 Mile Rd.	1.0	4.0	Resurface	1,200,000		1,200,000	
& Shape	Various Locations	8.1	17.8	Resurface	2,000,000	1,000,000	3,000,000	STP-U
Fill	Various Locations	8.1	17.8	Resurface	2,000,000	1,000,000	3,000,000	STP-U
		31.3	79.8	-	9,236,478	6,863,522	16,100,000	
ys	Various Locations	6.5	14.3	Resurface	1,300,000		1,300,000	_
		6.5	14.3	_	1,300,000	-	1,300,000	-
	Various Locations	86.0	189.2	Sealcoat and Micro Surface	4,300,000		4,300,000	
verlays		15.0	33.0		1,500,000		1,500,000	_
		101.0	222.2		5,800,000	-	5,800,000	-
s Locations				Capacity / Safety Improvement	, ,		, ,	-
					1,000,000	-	1,000,000	
ts					04.000	44.4.666	400.000	
				•	,	,	,	
•				Rehabilitation		267,900	,	LBP
	Various Locations				,	682 100		-
1100113					510,900	002,100	1,193,000	
Projects		138.8	316.3		¢ 17 017 270	¢ 7.545.000	*	
e vi	e Treatments verlays 6 Locations s Bridge #15 Bridge #15 Bridge #18 tive Maintenance verts	e Treatments Various Locations verlays s Locations s Bridge #15 20 Mile Rd. over Walter Creek Bridge #18 20 Mile Rd. over the Rogue River tive Maintenance Various Locations verts	 Various Locations Constructions Cons	 Various Locations Treatments Various Locations Treatments Various Locations 86.0 189.2 15.0 33.0 101.0 222.2 Locations Locations S Bridge #15 20 Mile Rd. over Walter Creek Bridge #18 20 Mile Rd. over the Rogue River tive Maintenance Various Locations 	vs Various Locations 6.5 14.3 Resurface a Treatments verlays Various Locations 86.0 189.2 Sealcoat and Micro Surface 15.0 33.0 101.0 222.2 a Locations Capacity / Safety Improvement s Replacement Rehabilitation Replacement Rehabilitation	/s Various Locations 6.5 14.3 Resurface 1,300,000 a Treatments verlays Various Locations 86.0 189.2 Sealcoat and Micro Surface 4,300,000 15.0 33.0 15.0 33.0 1,500,000 101.0 222.2 5,800,000 s Capacity / Safety Improvement 1,000,000 s Replacement Replacement 21,800 Bridge #15 20 Mile Rd. over Walter Creek Bridge #18 Replacement 20 Mile Rd. over the Rogue River Various Locations Replacement 475,000	Various Locations 6.5 14.3 Resurface 1,300,000 a Treatments verlays Various Locations 86.0 189.2 Sealcoat and Micro Surface 4,300,000 15.0 33.0 101.0 222.2 5,800,000 - a Locations Capacity / Safety Improvement 1,000,000 - s Locations Capacity / Safety Improvement 1,000,000 s Locations Replacement 20 Mile Rd. over Walter Creek Bridge #15 20 Mile Rd. over the Rogue River Various Locations Replacement Rehabilitation 21,800 414,200 475,000 14,100 267,900 475,000 510,900 682,100	vs Various Locations $\frac{6.5}{6.5}$ $\frac{14.3}{14.3}$ Resurface $\frac{1,300,000}{1,300,000}$ $\frac{1,300,000}{1,300,000}$ e Treatments verlays Various Locations $\frac{86.0}{15.0}$ 189.2 Sealcoat and Micro Surface $\frac{4,300,000}{1,500,000}$ $\frac{4,300,000}{1,500,000}$ s Bridge #15 20 Mile Rd. over Walter Creek Bridge #18 Capacity / Safety Improvement $\frac{1,000,000}{1,000,000}$ $\frac{1,000,000}{1,000,000}$ s Replacement Warious Locations Replacement Capacity / Safety Improvement $\frac{21,800}{14,200}$ $\frac{414,200}{436,000}$ $\frac{436,000}{475,000}$ s Solution of the maintenance Various Locations Various Locations Replacement Rehabilitation $\frac{21,800}{475,000}$ $\frac{414,200}{475,000}$ $\frac{436,000}{475,000}$ s Solution of the maintenance Various Locations Various Locations $\frac{414,200}{475,000}$ $\frac{436,000}{475,000}$

Five-Year Improvement Program 2022 Primary Road Projects

11/01	/2019
-------	-------

		Limits		Lane		Source	e of Funds		Program
Category	Road		Miles	Miles	Improvement	KCRC	Federal/State	Project Total	
Reconstruction	n								
	on/All-Season								
	00th St.	1 Mile East of Kalamazoo Ave. to Hanna Lake Ave.	1.0	2.0	All-Season	\$ 437,000	\$ 913,000	\$ 1,350,000	STP-R(STL)
6	8th St.	Plaster Creek to Hanna Lake Ave.	0.6	3.0	Widening 4 to 5 lanes	300,000	1,200,000	1,500,000	EDC
6	8th St.	Thornapple River Dr. to Whitneyville Ave.	1.0	2.0	All-Season	1,400,000		1,400,000	
84	4th St.	Hanna Lake Ave. to East Paris Ave.	1.0	2.0	All-Season	425,854	974,146	1,400,000	STP-U
С	Cascade Rd.	36th St. to Whitneyville Ave.	0.8	2.4	Widening 2 to 3 lanes	280,000	1,120,000	1,400,000	EDC
Full Dept	th Resurface								
1:	3 Mile Rd.	Sparta Village to Grange	3.5	7.0	Resurface	400,790	899,210	1,300,000	STP-U
4	Mile Rd.	Coit Ave. to Plainfield Ave.	1.0	3.0	Resurface	150,000	450,000	600,000	EDC
6	Mile Rd.	Alpine Ave. to Pine Island Dr.	1.8	3.6	Resurface	250,657	749,343	1,000,000	STP-U
K	alamazoo Ave.	68th St. to 60th St.	1.0	5.0	Resurface	369,000	731,000	1,100,000	NH
С	rush & Shape	Various Locations	8.1	17.8	Resurface	2,000,000	1,000,000	3,000,000	STP-U
N	1ill & Fill	Various Locations	8.1	17.8	Resurface	2,000,000	1,000,000	3,000,000	STP-U
Total Reconstru	iction		27.9	65.6	_	8,013,301	9,036,699	17,050,000	_
Resurfacing									
0	Overlays	Various Locations	7.0	15.4	Resurface	1,400,000		1,400,000	
Total Resurfacir			7.0	15.4	_	1,400,000	-	1,400,000	_
Preservation									
S	Surface Treatments	Various Locations	86.0	189.2	Sealcoat and Micro Surface	4,300,000		4,300,000	
Т	hin Overlays		15.0	33.0	_	1,500,000		1,500,000	_
Total Preservati	on		101.0	222.2	_	5,800,000	-	5,800,000	
Safety									
	arious Locations				Capacity / Safety Improvement	1,100,000		1,100,000	-
Total Safety						1,100,000	-	1,100,000	
Bridges and Cu									
	Preventive Maintenance	Various Locations				1,100,000		1,100,000	
Total Bridges ar	nd Culverts					1,100,000	-	1,100,000	
Total Primary F	Road Projects		135.9	303.2	=	\$ 17,413,301	\$ 9,036,699	\$ 26,450,000	=

Five-Year Improvement Program 2023 Primary Road Projects

				Lane		Source	of Funds		
Category Road		Limits		Miles	Improvement	KCRC	Federal/State	Project Total	Program
Reconstructi	ion								
Expan	sion/All-Season								
	10 Mile Rd.	Pine Island to Algoma	2.0	4.0	All-Season	\$ 3,000,000		\$ 3,000,000	
	100th St.	Hanna Lake Ave. to East Paris Ave.	1.0	2.0	All-Season	419,000	931,000	1,350,000	STP-R(STL)
	68th St.	Kraft Ave. to Cherry Valley Dr.	1.0	2.0	All-Season	1,500,000		1,500,000	
	84th St.	East Paris Ave. to Patterson Ave.	1.0	2.0	All-Season	387,992	1,062,008	1,450,000	STP-U
Full De	epth Pavement								
	Buttrick Ave.	Thornapple River Dr. to Grand River Dr.	0.5	1.0	Resurface	63,998	236,002	300,000	STP-U
	Northland Dr.	12 Mile Rd. to 13 Mile Rd.	1.0	5.0	Resurface	280,000	720,000	1,000,000	EDC
	Northland Dr.	13 Mile Rd. to 14 Mile Rd.	1.2	6.0	Resurface	240,000	936,614	1,176,614	
	Crush & Shape	Various Locations	9.0	19.8	Resurface	2,750,000	1,000,000	3,750,000	STP-U
	Mill & Fill	Various Locations	10.0		Resurface	3,000,000	1,000,000	4,000,000	STP-U
Total Reconst	truction		26.7	63.8	-	11,640,990	5,885,624	17,526,614	_
Resurfacing									
	Overlays	Various Locations	8.0		Resurface	1,600,000		1,600,000	_
Total Resurfa	cing		8.0	17.6	-	1,600,000	-	1,600,000	-
Preservation									
	Surface Treatments	Various Locations	84.0	184.8	Sealcoat and Micro Surface	4,200,000		4,200,000	
	Thin Overlays		15.0	33.0		1,500,000		1,500,000	
Total Preserva	ation		99.0	217.8	-	5,700,000	-	5,700,000	-
Safety									
	Various Locations				Capacity / Safety Improvement	1,250,000		1,250,000	
Total Safety						1,250,000	-	1,250,000	
Bridges and									
	Preventive Maintenance	Various Locations				1,250,000		1,250,000	-
Total Bridges	and Culverts					1,250,000	-	1,250,000	
Total Primary	y Road Projects		133.7	299.2		\$ 21,440,990	\$ 5,885,624	\$ 27,326,614	

Five Year Improvement Program 2024 Primary Road Projects

			Lane		Source of Funds KCRC Federal/State		of Funds					
Category Road	Limits	Miles	Miles	Improvement			Local	Project Total		Program		
Reconstruction Expansion/All-Season												
100th St.	East Paris Ave. to Patterson Ave.	1.0	-	All-Season	+ -)	000	\$	935,000		\$	1,375,000	-
84th St.	Patterson Ave. to Broadmoor (M-37)	1.8	-	All-Season	1,688,			1,188,000			2,876,000	STP-U
Lincoln Lake Rd. Wilson Ave.	Belding Rd. to Heffron 76th to M-6	2.0 1.3		All-Season All-Season	3,000, 1,925,						3,000,000 1,925,000	
WIISON AVE.		1.5	2.0	All-Season	1,923,	000					1,923,000	
Full Depth Pavement												
Crush & Shape	Various Locations	15.0	33.0	Resurface	3,750,	000		1,000,000			4,750,000	
Mill & Fill	Various Locations	15.0		Resurface	3,750,			1,000,000			4,750,000	STP-U
Total Reconstruction		36.1	84.0		14,553,	000		4,123,000	-		18,676,000	
Resurfacing												
Overlays	Various Locations	10.0		Resurface	2,000,						2,000,000	_
Total Resurfacing		10.0	22.0		2,000,	000		-	-		2,000,000	
Preservation												
Surface Treatments	Various Locations	82.0	180.4		4,100,						4,100,000	
Thin Overlays Total Preservation		<u> </u>	33.0 213.4		<u>1,500,</u> 5,600,				_		1,500,000 5,600,000	-
		57.0	210.4		0,000,	000					3,000,000	
Safety				Conscibul Cofetul Improvement	4 000	000					1 000 000	
Various Locations Total Safety				Capacity / Safety Improvement	<u>1,000,</u> 1,000,			_	_		1,000,000	-
					1,000,	000					1,000,000	
Bridges and Culverts Preventive Maintenance	e Various Locations				1,000,	000					1 000 000	
Total Bridges and Culverts					1,000,				_		1,000,000	-
rotal Bhuyes and Ouverts					1,000,	000		-	-		1,000,000	
Total Primary Road Projects		143.1	319.4	=	\$ 24,153,	000	\$	4,123,000	\$-	\$	28,276,000	=