



DOUGLAS COUNTY ADMINISTRATIVE SERVICES

Douglas County Courthouse
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Sarah Plinsky

Assistant County Administrator

MEMORANDUM

TO: The Board of County Commissioners
Craig Weinaug, County Administrator

FROM: Keith Browning, Director of Public Works
Sarah Plinsky, Asst. County Administrator

SUBJECT: 2019 – 2023 Five year Capital Improvement Plan

DATE: August 3, 2018

Attached is the proposed Capital Improvement Plan (CIP) for 2019-2023. This plan was reviewed by the Commission during the FY 2019 Budget Development process. Additional summary documents have since been prepared and are attached. Please let us know if you have any questions or concerns.

2019 Capital Improvement Plan

8/3/2018

CAPITAL IMPROVEMENT PLAN FUNDING SUMMARY

	2018	2019	2020	2021	2022	2023
Facilities budget allocation	\$1,756,631	\$1,391,817	\$1,395,000	\$1,395,000	\$1,395,000	\$1,395,000
R & B budget allocation	\$3,400,000	\$2,584,804	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000
Total allocation	\$5,156,631	\$3,976,621	\$3,995,000	\$3,995,000	\$3,995,000	\$3,995,000

Facilities funds in reserve	\$5,786,762	\$6,351,436	\$7,008,098	\$8,363,098	\$9,718,098	\$6,073,098
R & B funds in reserve	\$13,513,338	\$11,291,884	\$9,650,688	\$9,335,688	\$4,350,688	\$3,650,688
Total funds in reserve	\$19,300,100	\$17,643,320	\$16,658,786	\$17,698,786	\$14,068,786	\$9,723,786
Total available	\$24,456,731	\$21,619,941	\$20,653,786	\$21,693,786	\$18,063,786	\$13,718,786

Facilities total expenditures	(\$1,251,957)	(\$795,155)	(\$100,000)	(\$100,000)	(\$5,100,000)	(\$3,600,000)
R & B total expenditures	(\$5,821,454)	(\$4,855,500)	(\$3,415,000)	(\$8,035,000)	(\$3,750,000)	(\$3,560,000)
Total expenditures	(\$7,073,411)	(\$5,650,655)	(\$3,515,000)	(\$8,135,000)	(\$8,850,000)	(\$7,160,000)

Facilities deposits	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
R & B deposits	\$200,000	\$629,500	\$500,000	\$450,000	\$450,000	\$500,000
Total deposits	\$260,000	\$689,500	\$560,000	\$510,000	\$510,000	\$560,000

End balance	\$17,643,320	\$16,658,786	\$17,698,786	\$14,068,786	\$9,723,786	\$7,118,786
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2019 Capital Improvement Plan
Facilities Project Funding Summary

8/3/2018

	2018	2019	2020	2021	2022	2023
CIP Budget Allocations	\$1,756,631	\$1,391,817	\$1,395,000	\$1,395,000	\$1,395,000	\$1,395,000
CIP Funds in reserve	\$5,786,762	\$6,351,436	\$7,008,098	\$8,363,098	\$9,718,098	\$6,073,098
Total Available	\$7,543,393	\$7,743,253	\$8,403,098	\$9,758,098	\$11,113,098	\$7,468,098

Building Improvements	(\$407,400)	(\$584,350)				(\$3,500,000)
Construction Contracts	(\$434,883)				(\$5,000,000)	
Equipment						
Miscellaneous Expenditures						
Professional Services	(\$309,674)	(\$110,805)				
Shared Agreement Projects	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)
Total Expenditures	(\$1,251,957)	(\$795,155)	(\$100,000)	(\$100,000)	(\$5,100,000)	(\$3,600,000)

Sale of Land						
Interest	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Lease of County Property	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Transfers In						
Intergovernmental Revenue						
Miscellaneous Revenue						
Total Deposits	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000

End Balance	\$6,351,436	\$7,008,098	\$8,363,098	\$9,718,098	\$6,073,098	\$3,928,098
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2019 Capital Improvement Plan
Facilities Project Expenditures

8/3/2018

CIP Project	CIP Number	Constr YR	Project Total	2018	2019	2020	2021	2022	2023
Jail Expansion Design Studies	FAC0002	2014	\$766,650	(\$120,433)					
JLE Chiller	FAC0003	2014	\$131,280						
Jail Roof Repair	FAC0004	2015	\$88,433						
Jail Temp Control	FAC0005	2015	\$145,000						
Public Works Facility	FAC0006	2014	\$13,343,427						
Douglas County Fairgrounds	FAC0008	2015	\$7,944,909	(\$434,883)					
LEC Air Handlers	FAC0009	2016							
Fire Station No 1	FAC0010	2016	\$1,868,860	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)
Jail Chiller Replacement	FAC0011	2018							
Downtown Space Needs	FAC0012	2019	\$5,000,000					(\$5,000,000)	
Courthouse Stonework Renovation	FAC0013	2019	\$3,500,000						(\$3,500,000)
Courthouse Security Update	FAC0014	2019							
Fairgrounds Community Building Unit Heaters	FAC0023	2019	\$100,000		(\$100,000)				
Mental Health Crisis Center Studies	FAC0016	2018	\$640,000	(\$189,241)	(\$110,805)				
Community Health Center Improvements	FAC0017	2018	\$907,247	(\$307,400)	(\$294,350)				
LEC Chiller	FAC0018	2019	\$190,000		(\$190,000)				
LEC IT Computer Room AC	FAC0019	2018	\$100,000	(\$100,000)					
Community Health Center Parking Lot	FAC0021	2020							
Community Health Center Elevator Rehab	FAC0022	2020							
CIP General Contingency	FACGENCONT	ANNUAL							
Annual Totals				(\$1,251,957)	(\$795,155)	(\$100,000)	(\$100,000)	(\$5,100,000)	(\$3,600,000)

ROAD AND BRIDGE PROJECT FUNDING SUMMARY

	2018	2019	2020	2021	2022	2023
CIP budget allocation	\$3,400,000	\$2,584,804	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000
CIP funds in reserve	\$13,513,338	\$11,291,884	\$9,650,688	\$9,335,688	\$4,350,688	\$3,650,688
Total Available	\$16,913,338	\$13,876,688	\$12,250,688	\$11,935,688	\$6,950,688	\$6,250,688

Construction	(\$5,147,000)	(\$4,445,000)	(\$2,650,000)	(\$7,480,000)	(\$3,410,000)	(\$3,210,000)
Dust Control	(\$25,000)	\$0	(\$25,000)	\$0	\$0	\$0
Engineering	(\$136,454)	(\$55,000)	(\$410,000)	(\$40,000)	(\$130,000)	(\$70,000)
Right-of-way	(\$108,000)	(\$50,500)	(\$200,000)	(\$170,000)	(\$80,000)	(\$180,000)
Utility Reloc	(\$405,000)	(\$305,000)	(\$130,000)	(\$345,000)	(\$130,000)	(\$100,000)
Total Expenditures	(\$5,821,454)	(\$4,855,500)	(\$3,415,000)	(\$8,035,000)	(\$3,750,000)	(\$3,560,000)

Deposit KDOT FFE	\$200,000	\$300,000	\$450,000	\$450,000	\$450,000	\$500,000
Deposit KDOT funding	\$0	\$0	\$0	\$0	\$0	\$0
Deposit partner funds	\$0	\$279,500	\$0	\$0	\$0	\$0
Deposit USFWS	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Total deposits	\$200,000	\$629,500	\$500,000	\$450,000	\$450,000	\$500,000

End balance	\$11,291,884	\$9,650,688	\$9,335,688	\$4,350,688	\$3,650,688	\$3,190,688
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Douglas County Capital Improvement Plan
ROAD AND BRIDGE PROJECT EXPENDITURES

8/3/2018

Project	CIP Number	Constr YR	Total Cost	2018	2019	2020	2021	2022	2023
Culvert 1500-1624 and 1540-1622 Replacement	2015-61	2017	\$719,036	(\$90,000)					
Rte 458 Improvements, E800 thru E1000	2015-05	2017	\$6,365,123	(\$2,700,000)					
Lone Star Dam - Slope Modifications	2017-30	2018	\$340,000	(\$335,700)					
Lone Star Community Bldg Dock and Pier Replacement	2018-18	2018	\$100,000	(\$90,004)					
Bridge 1215-1750 Replacement	2014-66	2018	\$458,575	(\$457,000)					
Rte 458 Improvements, E1800 to E2000 [HRRR]	2015-17	2018	\$1,018,200	(\$982,000)					
E 1750 Road Improvements, N 400 Baldwin City	2019-12	2019	\$430,500		(\$430,500)				
Bridge 0532-0300 Replacement	2018-31	2019	\$520,000	(\$50,000)	(\$470,000)				
Wells Overlook ADA Viewing Platform	2018-20	2019	\$40,000		(\$40,000)				
Culvert 0900-1043 Replacement	2017-53	2019	\$380,000	(\$20,750)	(\$355,000)				
Bridge 1267-1200 Replacement	2017-51	2019	\$357,100		(\$355,000)				
Rte 1055 Improvements, N1000 to N1180	2014-21	2019	\$2,250,000	(\$75,000)	(\$2,175,000)				
Bridge 1180-1400 Repairs	2019-31	2020	\$400,000		(\$25,000)	(\$375,000)			
Rte 1055 Improvements / Bridges 0700-1665 and 0714-1650	2016-18	2020	\$1,451,000			(\$1,450,000)			
Culvert 0990-1000 Replacement	2019-56	2020	\$290,000			(\$290,000)			
E 1050 RD Extension, N1200 to Hwy K-10, Wakarusa River Bridge	2018-11	2021	\$6,200,000			(\$300,000)	(\$3,350,000)	(\$2,550,000)	
Bridge 0964-1000 Replacement	2020-31	2021	\$1,800,000			(\$125,000)	(\$1,675,000)		
Rte 458/1055 Improvements, E1500 thru E1600	2016-17	2021	\$2,275,000			(\$125,000)	(\$2,150,000)		
Bridge 0900-1088 Replacement	2021-31	2022	\$390,000				(\$40,000)	(\$350,000)	
Bridge 0600-0172 Replacement	2021-32	2023	\$870,000					(\$80,000)	(\$790,000)
Rte 1061 / Rte 460 Intersection Improvements	2019-11	2023	\$1,600,000					(\$50,000)	(\$1,550,000)
Rte 1055 (E1650 RD) Improvements	2022-15	2024	\$2,025,000						(\$200,000)
Bridge Painting Projects	BRPAINT	ANNUAL		(\$165,000)					(\$200,000)
Annual Bridge and Culvert Contingency Funds	BRPIPECONT	ANNUAL							
Annual Culvert Replacement and Repairs	CULVREP	ANNUAL		(\$581,000)	(\$480,000)	(\$400,000)	(\$345,000)	(\$345,000)	(\$345,000)
Bridge Deck Patch and Overlay Projects	DECKOVR	ANNUAL			(\$175,000)		(\$300,000)		(\$300,000)
Annual Contract Pavement Maintenance	RDPAVEMANT	ANNUAL		(\$225,000)	(\$300,000)	(\$300,000)	(\$100,000)	(\$300,000)	(\$100,000)
Annual Road Contingency Funds	ROADCONT	ANNUAL							
Annual Rock Road Stabilization	RKROADSTAB	ANNUAL		(\$50,000)	(\$50,000)	(\$50,000)	(\$75,000)	(\$75,000)	(\$75,000)
TOTALS				(\$5,821,454)	(\$4,855,500)	(\$3,415,000)	(\$8,035,000)	(\$3,750,000)	(\$3,560,000)



Douglas County Capital
Improvement Plan

2018

Overview of Facilities
Projects

Jail Expansion Design Studies

Project Number: FAC0002
 Construction Year: 2014
 Total Cost: \$766,650

Description: Design study for the Douglas County Jail.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$20,274	\$120,433	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$766,650	\$105,851						
Professional Services	(\$766,650)	(\$5,692)	(\$120,433)					
Project Balance		\$120,433	\$0	\$0	\$0	\$0	\$0	\$0



Douglas County Fairgrounds

Project Number: FAC0008
 Construction Year: 2015
 Total Cost: \$7,944,909

Description: Demolition of old buildings and new construction at the Douglas County Fairgrounds.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$278,302	\$434,883	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$7,944,909	\$1,152,760						
Building Improvements	(\$6,750)	(\$6,750)						
Construction Contracts	(\$7,056,939)	(\$699,859)	(\$434,883)					
Equipment	(\$296,091)	(\$198,214)						
Professional Services	(\$585,129)	(\$91,357)						
Project Balance		\$434,883	\$0	\$0	\$0	\$0	\$0	\$0



Fire Station No 1

Project Number: FAC0010
 Construction Year: 2016
 Total Cost: \$1,868,860

Description: Renovation of Fire Station No 1. Shared agreement with the City of Lawrence to fund this project.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
CIP Budget Allocations	\$2,368,860	\$600,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Shared Agreement Projects	(\$1,868,860)		(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)
EOY reallocate CIP funds	(\$500,000)	(\$500,000)						
Project Balance		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000



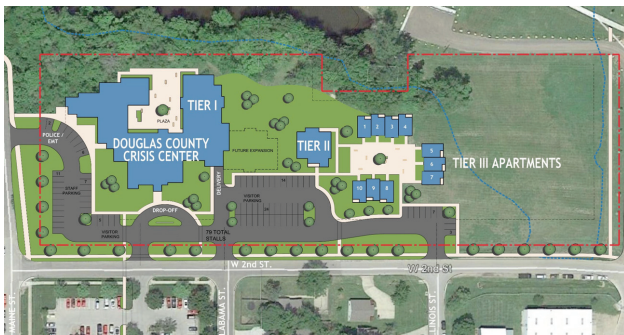
Mental Health Crisis Center Studies

Project Number: FAC0016
 Construction Year: 2018
 Total Cost: \$640,000

Description:

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$0	\$60,634	\$0	\$0	\$0	\$0	\$0
CIP Budget Allocations	\$640,000	\$340,000	\$128,607	\$110,805				
Professional Services	(\$640,000)	(\$279,366)	(\$189,241)	(\$110,805)				
Project Balance		\$60,634	\$0	\$0	\$0	\$0	\$0	\$0



Community Health Center Improvements

Project Number: FAC0017
 Construction Year: 2018
 Total Cost: \$907,247

Description: Improvements to the Community Health Center which houses Bert Nash and Lawrence-Douglas County Health Department. Upgrades to the facility, including replacement of the chiller, weatherization measures for the building, LED lighting retrofits, installation of electronic air filtration, upgrades to the building's controls systems, replacement of the boiler and replacement of the roof.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP Budget Allocations	\$907,247	\$305,497	\$307,400	\$294,350				
Building Improvements	(\$907,247)	(\$305,497)	(\$307,400)	(\$294,350)				
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Community Health Center



LEC IT Computer Room AC

Project Number: FAC0019
 Construction Year: 2018
 Total Cost: \$100,000

Description: Replacement of AC unit at the Law Enforcement Center's IT Computer Room.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP Budget Allocations	\$100,000		\$100,000					
Building Improvements	(\$100,000)		(\$100,000)					
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0



Downtown Space Needs

Project Number: FAC0012
 Construction Year: 2019
 Total Cost: \$5,000,000

Description: Space needs study for the Douglas County Courthouse at 1100 Massachusetts Street and the Law Enforcement Center at 111 E 11th Street.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$2,066,769	\$2,640,000	\$2,890,000	\$3,505,325	\$4,300,325	\$0
CIP Budget Allocations	\$3,183,231	\$250,000	\$573,231	\$250,000	\$615,325	\$795,000	\$699,675	
Construction Contracts	(\$5,000,000)						(\$5,000,000)	
EOY reallocate CIP funds	\$1,816,769	\$1,816,769						
Project Balance		\$2,066,769	\$2,640,000	\$2,890,000	\$3,505,325	\$4,300,325	\$0	\$0



Courthouse Stonework Renovation

Project Number: FAC0013
 Construction Year: 2019
 Total Cost: \$3,500,000

Description: Replacement of stone on the NW corner of building.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$1,250,000	\$1,850,000	\$2,100,000	\$2,450,000	\$2,900,000	\$3,250,000
CIP Budget Allocations	\$2,290,000	\$40,000	\$600,000	\$250,000	\$350,000	\$450,000	\$350,000	\$250,000
Building Improvements	(\$3,500,000)							(\$3,500,000)
EOY reallocate CIP funds	\$1,210,000	\$1,210,000						
Project Balance		\$1,250,000	\$1,850,000	\$2,100,000	\$2,450,000	\$2,900,000	\$3,250,000	\$0



Jail Improvements

Project Number: FAC0020
 Construction Year: 2019
 Total Cost: \$44,000,000

Description: Improvements to Jail Facility

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
CIP Budget Allocations	\$0			\$0	\$0	\$0	\$0	\$0
Building Improvements	(\$44,000,000)			\$0	\$0	\$0	\$0	\$0
EOY reallocate CIP funds	\$1,000,000	\$1,000,000						
Project Balance		\$0	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000



Fairgrounds Community Building Unit Heaters

Project Number: FAC0023
 Construction Year: 2019
 Total Cost: \$100,000

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$100,000	\$100,000	\$0	\$0	\$0	\$0
Building Improvements	(\$100,000)			(\$100,000)				
EOY reallocate CIP funds	\$100,000	\$100,000						
Project Balance		\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0

LEC Chiller

Project Number: FAC0018
 Construction Year: 2020
 Total Cost: \$190,000

Description: Replacement of Chiller at the Law Enforcement Center 111 E 11th Street.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP Budget Allocations	\$190,000			\$190,000				
Building Improvements	(\$190,000)			(\$190,000)				
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0



Community Health Center Parking Lot

Project Number: FAC0021
 Construction Year: 2020
 Total Cost: \$200,000

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP Budget Allocations	\$200,000			\$0	\$0	\$0	\$0	\$0
Building Improvements	(\$200,000)			\$0	\$0	\$0	\$0	\$0
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Community Health Center Elevator Rehab

Project Number: FAC0022
 Construction Year: 2020
 Total Cost: \$112,500

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP Budget Allocations	\$112,500			\$0	\$0	\$0	\$0	\$0
Building Improvements	(\$112,500)			\$0	\$0	\$0	\$0	\$0
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0

CIP General Contingency

Project Number: FACGENCONT
 Construction Year: ANNUAL
 Total Cost:

Description: Funds available for emergency or unplanned facility improvements or repairs. 2017 funds used for site surveys and preliminary studies for space needs.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$1,179,969	\$1,654,042	\$661,435	\$858,097	\$1,097,097	\$1,147,097	\$1,392,422
CIP budget allocations	\$10,812,816		\$7,393	\$196,662	\$239,000	\$50,000	\$245,325	\$1,045,000
Building Improvements	(\$120,500)							
Miscellaneous Expenditures	(\$8,591)							
Professional Services	(\$26,706)	(\$27,470)						
Transfers In/Revenue	\$3,451,543	\$3,451,543						
EOY reallocate CIP funds	(\$3,950,000)	(\$2,950,000)	(\$1,000,000)					
Project Balance		\$1,654,042	\$661,435	\$858,097	\$1,097,097	\$1,147,097	\$1,392,422	\$2,437,422

ROAD AND BRIDGE PROJECT FUNDING SUMMARY

	2017	2018	2019	2020	2021	2022	2023
CIP budget allocation	\$3,202,184	\$3,400,000	\$2,584,804	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000
CIP funds in reserve	\$14,698,676	\$13,513,338	\$11,291,884	\$9,650,688	\$9,335,688	\$4,350,688	\$3,650,688
Total Available	\$17,900,860	\$16,913,338	\$13,876,688	\$12,250,688	\$11,935,688	\$6,950,688	\$6,250,688

Construction	(\$4,206,265)	(\$5,147,000)	(\$4,445,000)	(\$2,650,000)	(\$7,480,000)	(\$3,410,000)	(\$3,210,000)
Dust Control	(\$52,961)	(\$25,000)	\$0	(\$25,000)	\$0	\$0	\$0
Engineering	(\$103,352)	(\$136,454)	(\$55,000)	(\$410,000)	(\$40,000)	(\$130,000)	(\$70,000)
Right-of-way	(\$290,284)	(\$108,000)	(\$50,500)	(\$200,000)	(\$170,000)	(\$80,000)	(\$180,000)
Utility Reloc	(\$370,424)	(\$405,000)	(\$305,000)	(\$130,000)	(\$345,000)	(\$130,000)	(\$100,000)
Total Expenditures	(\$5,023,286)	(\$5,821,454)	(\$4,855,500)	(\$3,415,000)	(\$8,035,000)	(\$3,750,000)	(\$3,560,000)

Deposit KDOT FFE	\$524,259	\$200,000	\$300,000	\$450,000	\$450,000	\$450,000	\$500,000
Deposit KDOT funding	\$1,505	\$0	\$0	\$0	\$0	\$0	\$0
Deposit partner funds	\$0	\$0	\$279,500	\$0	\$0	\$0	\$0
Deposit USFWS	\$110,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Total deposits	\$635,765	\$200,000	\$629,500	\$500,000	\$450,000	\$450,000	\$500,000

End balance	\$13,513,338	\$11,291,884	\$9,650,688	\$9,335,688	\$4,350,688	\$3,650,688	\$3,190,688
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ROAD AND BRIDGE PROJECT EXPENDITURES

Project	CIP Number	Constr YR	Total Cost	2017	2018	2019	2020	2021	2022	2023
Bridge 0958-0900 replacement [KLBIPI]	2015-67	2016	\$244,379	(\$9,858)						
Bridge 1000-1638 replacement	2013-20	2016	\$989,239	(\$43,659)						
Bridge 0064-0550 Replacement	2015-68	2017	\$519,613	(\$480,885)						
Culvert 1500-1624 and 1540-1622 Replacement	2015-61	2017	\$719,036	(\$627,686)	(\$90,000)					
Rte 458 Improvements, E800 thru E1000	2015-05	2017	\$6,365,123	(\$3,195,509)	(\$2,700,000)					
Lone Star Dam - Slope Modifications	2017-30	2018	\$340,000	(\$4,300)	(\$335,700)					
Lone Star Community Bldg Dock and Pier Replacement	2018-18	2018	\$100,000	(\$9,996)	(\$90,004)					
Bridge 1215-1750 Replacement	2014-66	2018	\$458,575	\$0	(\$457,000)					
Rte 458 Improvements, E1800 to E2000 [HRRR]	2015-17	2018	\$1,018,200	(\$36,200)	(\$982,000)					
E 1750 Road Improvements, N 400 Baldwin City	2019-12	2019	\$430,500			(\$430,500)				
Bridge 0532-0300 Replacement	2018-31	2019	\$520,000		(\$50,000)	(\$470,000)				
Wells Overlook ADA Viewing Platform	2018-20	2019	\$40,000			(\$40,000)				
Culvert 0900-1043 Replacement	2017-53	2019	\$380,000		(\$20,750)	(\$355,000)				
Bridge 1267-1200 Replacement	2017-51	2019	\$357,100			(\$355,000)				
Rte 1055 Improvements, N1000 to N1180	2014-21	2019	\$2,250,000		(\$75,000)	(\$2,175,000)				
Bridge 1180-1400 Repairs	2019-31	2020	\$400,000			(\$25,000)	(\$375,000)			
Rte 1055 Improvements, E1650 to E1700, Bridges 0700-1665 and 0714-1650	2016-18	2020	\$1,451,000				(\$1,450,000)			
Culvert 0990-1000 Replacement	2019-56	2020	\$290,000				(\$290,000)			
E 1050 RD Extension, N1200 to Hwy K-10, Wakarusa River Bridge	2018-11	2021	\$6,200,000				(\$300,000)	(\$3,350,000)	(\$2,550,000)	
Bridge 0964-1000 Replacement	2020-31	2021	\$1,800,000				(\$125,000)	(\$1,675,000)		
Rte 458/1055 Improvements, E1500 thru E1600	2016-17	2021	\$2,275,000				(\$125,000)	(\$2,150,000)		
Bridge 0900-1088 Replacement	2021-31	2022	\$390,000					(\$40,000)	(\$350,000)	
Bridge 0600-0172 Replacement	2021-32	2023	\$870,000						(\$80,000)	(\$790,000)
Rte 1061 / Rte 460 Intersection Improvements	2019-11	2023	\$1,600,000						(\$50,000)	(\$1,550,000)
Rte 1055 (E1650 RD) Improvements	2022-15	2024	\$2,025,000							(\$200,000)
Bridge Painting Projects	BRPAINT	ANNUAL			(\$165,000)					(\$200,000)
Annual Bridge and Culvert Contingency Funds	BRPIPECONT	ANNUAL		(\$9,504)			\$0			
Annual Culvert Replacement and Repairs	CULVREP	ANNUAL		(\$241,373)	(\$581,000)	(\$480,000)	(\$400,000)	(\$345,000)	(\$345,000)	(\$345,000)
Bridge Deck Patch and Overlay Projects	DECKOVR	ANNUAL		(\$330,227)		(\$175,000)		(\$300,000)		(\$300,000)
Annual Contract Pavement Maintenance	RDPAVEMANT	ANNUAL		\$0	(\$225,000)	(\$300,000)	(\$300,000)	(\$100,000)	(\$300,000)	(\$100,000)
Annual Road Contingency Funds	ROADCONT	ANNUAL		(\$4,482)			\$0			
Annual Rock Road Stabilization	RKROADSTAB	ANNUAL		(\$29,607)	(\$50,000)	(\$50,000)	(\$50,000)	(\$75,000)	(\$75,000)	(\$75,000)
TOTALS				(\$5,023,286)	(\$5,821,454)	(\$4,855,500)	(\$3,415,000)	(\$8,035,000)	(\$3,750,000)	(\$3,560,000)

DOUGLAS COUNTY
CAPITAL IMPROVEMENT PLAN

2018

OVERVIEW OF PUBLIC WORKS PROJECTS



Bridge 1000-1638 replacement

Project Number: 2013-20
 Construction Year: 2016
 Total Cost: \$989,239

Description: Replacement of the bridge carrying Route 458 (N1000 RD) over Coal Creek (1,300 vehicles/day). The existing concrete bridge was built in 1937.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$0	\$0	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$1,750,000							
Engineering	(\$153,634)	(\$2,123)						
Right-of-way	(\$7,450)							
Construction	(\$826,013)	(\$41,535)						
Dust Control	(\$2,142)							
EOY reallocate CIP funds	(\$760,761)	\$43,659						
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Roadway before replacement



Bridge replaced 2016



Bridge 0958-0900 replacement [KLBIP]

Project Number: 2015-67
 Construction Year: 2016
 Total Cost: \$244,379

Description: Replacement of the bridge carrying E900 RD over a tributary to Washington Creek (35 vehicles/day). The existing concrete bridge was built in 1921. This project was completed in 2016, in anticipation of increased 2017 traffic from the Route 458 project. KDOT provided Local Bridge Improvement Program funds to assist with replacement of this structure.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$0	\$0	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$328,425							
Engineering	(\$45,387)							
Right-of-way	(\$4,675)							
Construction	(\$194,317)	(\$9,858)						
Deposit KDOT funding	\$120,000							
EOY reallocate CIP funds	(\$204,046)	\$9,858						
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Bridge prior to replacement



Bridge completed 2016



Bridge 0064-0550 Replacement

Project Number: 2015-68
 Construction Year: 2017
 Total Cost: \$519,613

Description: Replacement of the bridge carrying Route 1029 over the West Fork Eight Mile Creek (400 vehicles/day). The existing steel girder bridge was built in 1935 and repaired in 1972. The replacement was completed in May 2017. The new deck surface received a polymer overlay in July 2017.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$615,000	\$0	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$617,623							
Engineering	(\$40,989)	(\$5,761)						
Right-of-way	(\$3,500)							
Construction	(\$472,449)	(\$472,449)						
Dust Control	(\$2,675)	(\$2,675)						
EOY reallocate CIP funds	(\$98,010)	(\$134,115)						
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Existing bridge in 2016



Replacement completed May 2017



Culvert 1500-1624 and 1540-1622 Replacement

Project Number: 2015-61
 Construction Year: 2017
 Total Cost: \$719,036

Description: Safety improvements to address narrow culverts and steep roadside slopes. This contracted project replaced the existing narrow culvert on N1500 RD (2,650 vehicles/day) and the damaged culvert on N1550 RD, and reconstructed the open channel paralleling E1625 RD. The work was completed in November 2017. Additional seeding and final payment will be completed in 2018.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$777,000	\$90,000	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$777,000							
Engineering	(\$1,350)							
Right-of-way	(\$26,775)	(\$26,775)						
Construction	(\$690,911)	(\$600,911)	(\$90,000)					
EOY reallocate CIP funds	(\$57,964)	(\$59,314)						
Project Balance		\$90,000	\$0	\$0	\$0	\$0	\$0	\$0

Existing narrow culvert on N 1500 RD (E 15th St)



Replacement completed 2017



Lone Star Community Bldg Dock and Pier Replacement

Project Number: 2018-18
 Construction Year: 2018
 Total Cost: \$100,000

Description: The existing concrete dock was constructed over 50 years ago. The structure is located below the Community Building, providing access to two floating piers. The concrete foundations have started to fail, so the structure will be demolished and rebuilt.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$90,004	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$100,000	\$100,000						
Engineering	(\$20,000)	(\$9,996)	(\$10,004)					
Construction	(\$80,000)		(\$80,000)					
Project Balance		\$90,004	\$0	\$0	\$0	\$0	\$0	\$0

Existing structure



Reconstruction in 2018



Bridge Painting Projects

Project Number: BRPAINT
 Construction Year: ANNUAL
 Total Cost:

Description: Repainting of steel bridge structures to extend service life. Locations are prioritized based on biennial bridge inspections.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$565,000		\$165,000					\$200,000
Engineering	(\$55,000)		(\$15,000)					(\$20,000)
Construction	(\$510,000)		(\$150,000)					(\$180,000)
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0



Annual Bridge and Culvert Contingency Funds

Project Number: BRPIPECONT
 Construction Year: ANNUAL
 Total Cost:

Description: Funds available to address emergency repairs or priorities. Funds were used in 2016 to cover additional repair costs on the Route 1055 bridge over the Wakarusa River (1186-1500). Funds were used in 2017 to replace a failed approach slab joint on the bridge carrying E1200 RD over the Kansas Turnpike.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
CIP budget allocations	\$203,151				\$0			
Construction	(\$9,504)	(\$9,504)			\$0			
Deposit partner funds	\$33,244							
EOY reallocate CIP funds	(\$26,891)	\$9,504						
Project Balance		\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000

High flow at bridge 1100-1330



Repair work on bridge 1186-1500



Annual Culvert Replacement and Repairs

Project Number: CULVREP
 Construction Year: ANNUAL
 Total Cost:

Description: CIP funds for multiple culvert replacement projects. County crews replace 4 to 6 culverts per year, using precast concrete sections. In some cases, three-sided structures are used to restore aquatic habitat. There are 1,100 culverts in our inventory. This annual replacement plan allows us to replace damaged structures and improve road safety.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$628,119	\$447,884	\$216,884	\$140,688	\$90,688	\$95,688	\$100,688
CIP budget allocations	\$4,875,997	\$290,000	\$350,000	\$353,804	\$350,000	\$350,000	\$350,000	\$350,000
Engineering	(\$28,331)	(\$7,750)						
Right-of-way	(\$289,365)	(\$32,290)	(\$31,000)	(\$25,000)	(\$25,000)	(\$20,000)	(\$20,000)	(\$20,000)
Utility Reloc	(\$219,756)	(\$29,390)	(\$30,000)	(\$30,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)
Construction	(\$4,175,269)	(\$171,943)	(\$520,000)	(\$425,000)	(\$355,000)	(\$305,000)	(\$305,000)	(\$305,000)
Deposit USFWS	\$195,000	\$70,000		\$50,000				
EOY reallocate CIP funds	(\$242,587)	(\$298,861)						
Project Balance		\$447,884	\$216,884	\$140,688	\$90,688	\$95,688	\$100,688	\$105,688

Culvert 1300-2360 replaced 2015



Culvert 1991-0100 replaced 2017



Bridge Deck Patch and Overlay Projects

Project Number: DECKOVR
 Construction Year: ANNUAL
 Total Cost:

Description: Projects to repair and protect existing concrete bridge decks. Existing concrete is patched as needed and surfaced with a polymer epoxy overlay. Locations are prioritized based on biennial bridge inspections.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$300,000	\$0	\$175,000	\$0	\$0	\$0	\$0
CIP budget allocations	\$3,038,583		\$175,000			\$300,000		\$300,000
Engineering	(\$41,402)							
Construction	(\$2,950,129)	(\$330,227)		(\$175,000)		(\$300,000)		(\$300,000)
EOY reallocate CIP funds	(\$47,052)	\$30,227						
Project Balance		\$0	\$175,000	\$0	\$0	\$0	\$0	\$0

Concrete deck repairs



Overlay Route 1029 Kansas River Bridge completed 2017



Annual Contract Pavement Maintenance

Project Number: RDPAVEMANT
 Construction Year: ANNUAL
 Total Cost:

Description: CIP funds available annually to complete contracted pavement mill/overlay or chip/seal projects. These funds supplement road and bridge budget funds as needed.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$500,000	\$325,000	\$100,000	\$0	\$0	\$0	\$0
CIP budget allocations	\$4,205,023		\$0	\$200,000	\$300,000	\$100,000	\$300,000	\$100,000
Engineering	(\$200)							
Construction	(\$3,876,799)	\$0	(\$225,000)	(\$300,000)	(\$300,000)	(\$100,000)	(\$300,000)	(\$100,000)
EOY reallocate CIP funds	(\$98,024)	(\$175,000)						
Project Balance		\$325,000	\$100,000	\$0	\$0	\$0	\$0	\$0

Typical mill and overlay projects



Annual Rock Road Stabilization

Project Number: RKROADSTAB
 Construction Year: ANNUAL
 Total Cost:

Description: CIP funds available annually for rock road stabilization on county routes. This work is completed by county crews.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$100,000	\$50,000	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$722,508		\$0	\$50,000	\$50,000	\$75,000	\$75,000	\$75,000
Right-of-way	(\$3,700)							
Construction	(\$721,944)	(\$29,607)	(\$50,000)	(\$50,000)	(\$50,000)	(\$75,000)	(\$75,000)	(\$75,000)
Deposit KDOT funding	\$12,524							
EOY reallocate CIP funds	(\$9,388)	(\$20,393)						
Project Balance		\$50,000	\$0	\$0	\$0	\$0	\$0	\$0

Rock road base stabilization and compaction



Annual Road Contingency Funds

Project Number: ROADCONT
 Construction Year: ANNUAL
 Total Cost:

Description: Funds available to respond to emergency repairs or unplanned priorities. Funds were used in 2016 to pay for a geotechnical analysis of Lone Star Dam in response to slope slides. Funds were used in 2017 to repair damaged pavement on route 438.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$500,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
CIP budget allocations	\$649,358				\$0			
Engineering	(\$37,999)	(\$4,000)						
Construction	(\$482)	(\$482)			\$0			
Deposit KDOT funding	\$1,505	\$1,505						
Deposit partner funds	\$106,971							
EOY reallocate CIP funds	(\$419,353)	(\$197,023)						
Project Balance		\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000

N 1000 RD flooded July 2017



Pavement damage Route 9



Rte 458 Improvements, E800 thru E1000

Project Number: 2015-05
 Construction Year: 2017
 Total Cost: \$6,365,123

Description: Safety improvements on Route 458, 4.5 miles in length, from Route 1 to the lower dam road (2,150 vehicles/day). The project will add paved shoulders, flatten roadside slopes, replace narrow culverts, and realign three existing curves to remove 40 mph speed zones. The existing pavement will be patched and surfaced with asphalt. Construction started in June 2017, and will be completed in Summer 2018.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$5,600,741	\$2,700,000	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$2,673,000							
Engineering	(\$533,735)	(\$64,122)						
Right-of-way	(\$200,319)	(\$200,319)						
Utility Reloc	(\$341,034)	(\$341,034)						
Construction	(\$5,239,748)	(\$2,539,748)	(\$2,700,000)					
Dust Control	(\$50,286)	(\$50,286)						
Deposit KDOT FFE	\$2,949,790	\$524,259						
Deposit USFWS	\$40,000	\$40,000						
EOY reallocate CIP funds	\$702,332	(\$269,491)						
Project Balance		\$2,700,000	\$0	\$0	\$0	\$0	\$0	\$0

This project includes 28 new road crossing culverts



Three existing 40 mph curves have been realigned



Bridge 1215-1750 Replacement

Project Number: 2014-66
 Construction Year: 2018
 Total Cost: \$458,575

Description: Replacement of the bridge carrying E1750 RD over a tributary to the Wakarusa River (170 vehicles/day). The existing steel girder bridge was built in 1958.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$190,000	\$420,000	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$357,000	\$130,000	\$37,000					
Engineering	(\$6,575)	\$0	(\$5,000)					
Right-of-way	(\$2,000)		(\$2,000)					
Utility Reloc	\$0		\$0					
Construction	(\$450,000)		(\$450,000)					
EOY reallocate CIP funds	\$101,575	\$100,000						
Project Balance		\$420,000	\$0	\$0	\$0	\$0	\$0	\$0

Existing span



Existing roadway



Rte 458 Improvements, E1800 to E2000 [HRRR]

Project Number: 2015-17
 Construction Year: 2018
 Total Cost: \$1,018,200

Description: Douglas County has been awarded High Risk Rural Road (H-triple R) funding from KDOT to address roadside safety concerns on N1000 RD, from E1800 to E2000 (1,600 vehicles/day). KDOT will cover 90% of the construction cost to replace narrow culverts and remove roadside tree cover. The project will also replace several entrance culverts and regrade sections of steep roadside. Additional county funds have been allocated to patch and surface the pavement with asphalt.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$950,000	\$950,000	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$460,000		\$32,000					
Engineering	(\$5,300)	(\$5,300)						
Right-of-way	(\$30,900)	(\$30,900)						
Utility Reloc	(\$375,000)		(\$375,000)					
Construction	(\$582,000)		(\$582,000)					
Dust Control	(\$25,000)		(\$25,000)					
EOY reallocate CIP funds	\$558,200	\$36,200						
Project Balance		\$950,000	\$0	\$0	\$0	\$0	\$0	\$0

Existing narrow culverts will be replaced to improve roadside safety



Lone Star Dam - Slope Modifications

Project Number: 2017-30
 Construction Year: 2018
 Total Cost: \$340,000

Description: Lone Star Dam was completed in 1939. The existing downstream slope is very steep, and has experienced surface slides in recent years. A geotechnical study in 2016 found that the slides are not affecting the safety of the dam; however they must be addressed. This project will add material to the face of the dam to reduce slopes.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$160,700	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$340,000	\$165,000	\$175,000					
Engineering	(\$40,000)	(\$4,300)	(\$35,700)					
Construction	(\$300,000)		(\$300,000)					
Project Balance		\$160,700	\$0	\$0	\$0	\$0	\$0	\$0

Existing slope



Existing slope



Rte 1055 Improvements, N1000 to N1180

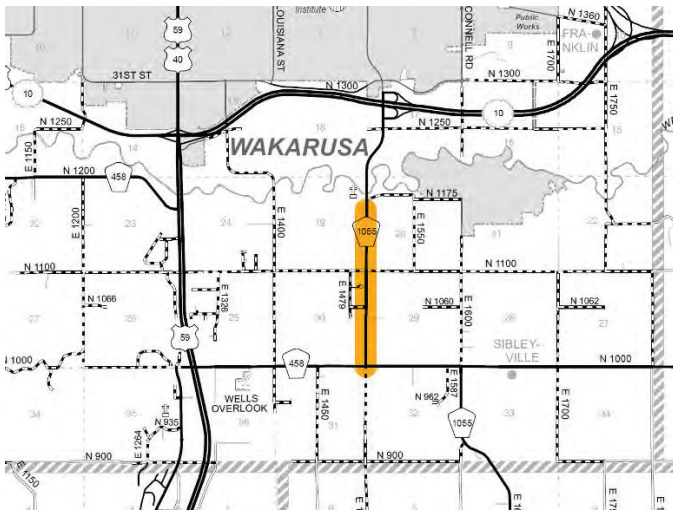
Project Number: 2014-21
 Construction Year: 2019
 Total Cost: \$2,250,000

Description: Safety improvements on Route 1055, 1.8 miles in length, from Route 458 to N1175 RD (2,700 vehicles/day). The project will add paved shoulders, flatten roadside slopes and replace narrow culverts. The existing pavement will be patched and surfaced with asphalt.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$1,742,816	\$1,950,000	\$2,175,000	\$0	\$0	\$0	\$0
CIP budget allocations	\$1,550,469	\$207,184	\$300,000					
Right-of-way	(\$75,000)		(\$75,000)					
Utility Reloc	(\$225,000)			(\$225,000)				
Construction	(\$1,950,000)		(\$1,950,000)					
EOY reallocate CIP funds	\$699,531							
Project Balance		\$1,950,000	\$2,175,000	\$0	\$0	\$0	\$0	\$0

Project location



Existing roadway



Bridge 1267-1200 Replacement

Project Number: 2017-51
 Construction Year: 2019
 Total Cost: \$357,100

Description: Replacement of the bridge carrying E1200 RD (Kasold) over Yankee Tank Creek (2,900 vehicles/day). The existing concrete bridge was built in 1921. This bridge is classified Functionally Obsolete.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$75,000	\$275,000	\$355,000	\$0	\$0	\$0	\$0
CIP budget allocations	\$330,000	\$100,000	\$80,000					
Engineering	(\$2,100)							
Construction	(\$355,000)			(\$355,000)				
EOY reallocate CIP funds	\$27,100	\$100,000						
Project Balance		\$275,000	\$355,000	\$0	\$0	\$0	\$0	\$0

Existing span



Existing roadway



Culvert 0900-1043 Replacement

Project Number: 2017-53
 Construction Year: 2019
 Total Cost: \$380,000

Description: This contracted project will replace the narrow, damaged culvert on N900 RD (150 vehicles/day). The structure carries a mapped floodway and may require a bridge-size replacement. County crews completed work in 2017 to protect the existing structure from channel scour.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$250,000	\$255,750	\$355,000	\$0	\$0	\$0	\$0
CIP budget allocations	\$120,000		\$120,000					
Engineering	(\$25,000)		(\$20,750)					
Right-of-way	(\$10,000)			(\$10,000)				
Utility Reloc	(\$15,000)			(\$15,000)				
Construction	(\$330,000)			(\$330,000)				
EOY reallocate CIP funds	\$260,000	\$5,750						
Project Balance		\$255,750	\$355,000	\$0	\$0	\$0	\$0	\$0

Existing narrow culvert



Inspection December 2016



Wells Overlook ADA Viewing Platform

Project Number: 2018-20
 Construction Year: 2019
 Total Cost: \$40,000

Description: Construction of ADA accesible parking spaces, sidewalk and viewing area adjacent to the existing park road. The project will be completed by county crews.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$40,000			\$40,000				
Construction	(\$40,000)			(\$40,000)				
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$0

Bridge 0532-0300 Replacement

Project Number: 2018-31
 Construction Year: 2019
 Total Cost: \$520,000

Description: Replacement of the bridge carrying E300 RD over St. Francis Tributary (60 vehicles/day). The existing steel girder bridge was built in 1932.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$300,000	\$400,000	\$0	\$0	\$0	\$0
CIP budget allocations	\$220,000		\$150,000	\$70,000				
Engineering	(\$50,000)		(\$50,000)					
Right-of-way	(\$10,000)			(\$10,000)				
Utility Reloc	(\$10,000)			(\$10,000)				
Construction	(\$450,000)			(\$450,000)				
EOY reallocate CIP funds	\$300,000	\$300,000						
Project Balance		\$300,000	\$400,000	\$0	\$0	\$0	\$0	\$0

Existing span



Existing roadway



E 1750 Road Improvements, N 400 Baldwin City

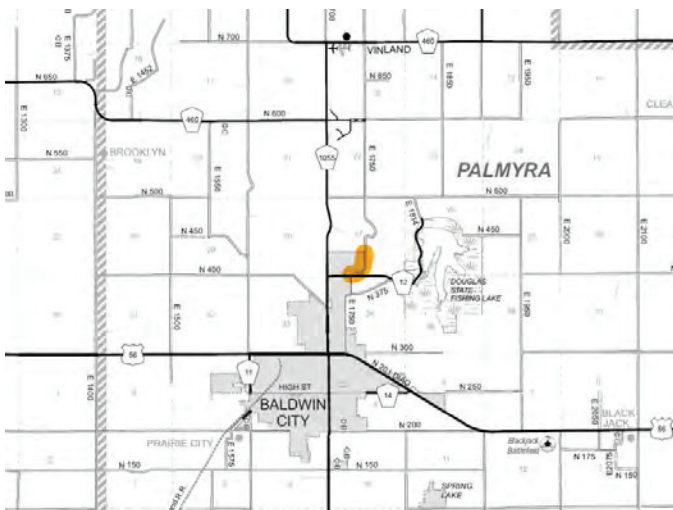
Project Number: 2019-12
 Construction Year: 2019
 Total Cost: \$430,500

Description: This project is a partnership with Douglas County, Baldwin City, Palmyra Township and local residents. Douglas County will design and bid the contract to improve E1750 RD from N400 RD, 0.3 miles north to the city limits.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$76,000	\$0	\$0	\$0	\$0
CIP budget allocations	\$151,000		\$76,000	\$75,000				
Engineering	(\$30,000)			(\$30,000)				
Right-of-way	(\$5,500)			(\$5,500)				
Utility Reloc	(\$25,000)			(\$25,000)				
Construction	(\$370,000)			(\$370,000)				
Deposit partner funds	\$279,500			\$279,500				
Project Balance		\$0	\$76,000	\$0	\$0	\$0	\$0	\$0

Project location



Rte 1055 Improvements, E1650 to E1700, Bridges 0700-1665 and 0714-1650

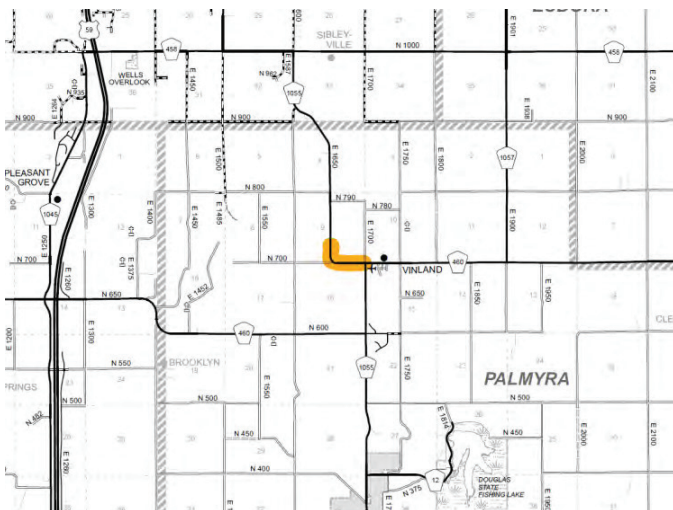
Project Number: 2016-18
 Construction Year: 2020
 Total Cost: \$1,451,000

Description: Safety improvements on Route 1055, 0.7 miles in length, west of Vinland (2,150 vehicles/day). The project will add paved shoulders within existing curves and replace culverts. Two existing bridges will be replaced (0700-1665 and 0714-1650). The existing pavement will be patched and surfaced with asphalt.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$900,000	\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
CIP budget allocations	\$790,000	\$300,000						
Right-of-way	(\$26,000)				(\$25,000)			
Utility Reloc	(\$100,000)				(\$100,000)			
Construction	(\$1,300,000)				(\$1,300,000)			
Dust Control	(\$25,000)				(\$25,000)			
Deposit USFWS	\$50,000				\$50,000			
EOY reallocate CIP funds	\$611,000	\$200,000						
Project Balance		\$1,400,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0	\$0

Project location



Existing bridge 0700-1665



Bridge 1180-1400 Repairs

Project Number: 2019-31
 Construction Year: 2020
 Total Cost: \$400,000

Description: Repairs to the bridge carrying E1400 RD (former Louisiana Street alignment) over the Wakarusa River (2,150 vehicles/day). The existing 279' long, steel girder bridge was built in 1976.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$275,000	\$0	\$0	\$0
CIP budget allocations	\$400,000			\$300,000	\$100,000			
Engineering	(\$25,000)			(\$25,000)				
Construction	(\$375,000)				(\$375,000)			
Project Balance		\$0	\$0	\$275,000	\$0	\$0	\$0	\$0

Existing span



Existing steel bearing



Culvert 0990-1000 Replacement

Project Number: 2019-56
 Construction Year: 2020
 Total Cost: \$290,000

Description: This contracted project will replace the narrow culvert on E1000 RD, adjacent to Washington Creek (230 vehicles/day).

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$200,000	\$0	\$0	\$0
CIP budget allocations	\$290,000			\$200,000	\$90,000			
Right-of-way	(\$10,000)				(\$10,000)			
Utility Reloc	(\$10,000)				(\$10,000)			
Construction	(\$270,000)				(\$270,000)			
Project Balance		\$0	\$0	\$200,000	\$0	\$0	\$0	\$0

Existing roadway flooded July 2017



Existing culvert



Rte 458/1055 Improvements, E1500 thru E1600

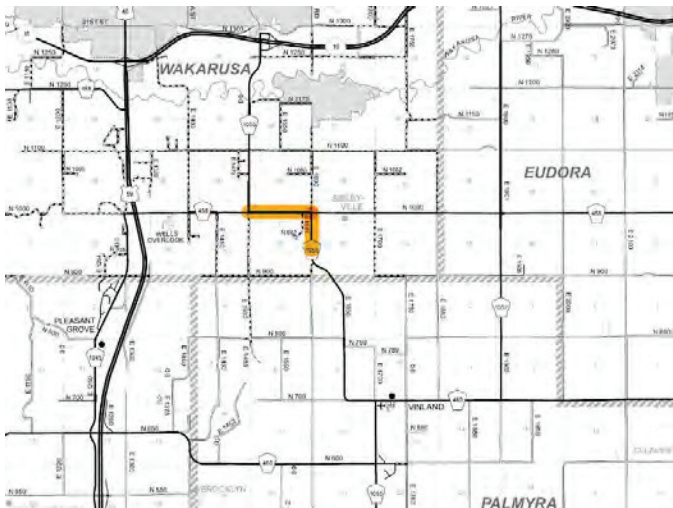
Project Number: 2016-17
 Construction Year: 2021
 Total Cost: \$2,275,000

Description: Safety improvements on Rte 458 and Rte 1055, from E1500 RD to a point one mile east and 0.6 miles south (3,390 vehicles/day). The project will add paved shoulders, flatten roadside slopes and replace existing culverts. The design may evaluate intersection improvements at E1500 RD and E1600 RD. The existing pavement will be patched and surfaced with asphalt.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$565,000	\$1,715,000	\$2,115,000	\$2,275,000	\$2,150,000	\$0	\$0
CIP budget allocations	\$1,260,000	\$300,000	\$400,000	\$160,000				
Right-of-way	(\$125,000)				(\$125,000)			
Utility Reloc	(\$250,000)					(\$250,000)		
Construction	(\$1,900,000)					(\$1,900,000)		
EOY reallocate CIP funds	\$1,015,000	\$850,000						
Project Balance		\$1,715,000	\$2,115,000	\$2,275,000	\$2,150,000	\$0	\$0	\$0

Project location



Existing shoulder condition



E 1050 RD Extension, N1200 to Hwy K-10, Wakarusa River Bridge

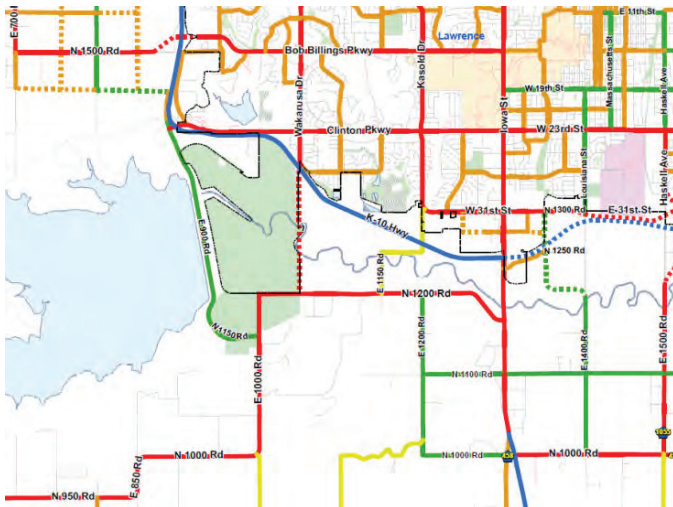
Project Number: 2018-11
 Construction Year: 2021
 Total Cost: \$6,200,000

Description: This project will coordinate with future changes to Hwy K-10, providing a critical connection from Route 458 to Wakarusa Drive. This will be a partnership with the City of Lawrence and KDOT. Douglas County will construct E1050 RD and a new bridge over the Wakarusa River. The future Wakarusa Drive / K-10 overpass will eliminate the stop light on K-10 at 27th Street. The county costs reported below assume bridge construction will proceed one year prior to road construction.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$1,130,000	\$2,170,000	\$3,210,000	\$4,220,000	\$1,945,000	\$0
CIP budget allocations	\$3,980,000	\$760,000	\$840,000	\$740,000	\$860,000	\$625,000	\$155,000	
Engineering	(\$350,000)				(\$300,000)		(\$50,000)	
Right-of-way	(\$150,000)					(\$150,000)		
Utility Reloc	(\$100,000)						(\$100,000)	
Construction	(\$5,600,000)					(\$3,200,000)	(\$2,400,000)	
Deposit KDOT FFE	\$1,850,000		\$200,000	\$300,000	\$450,000	\$450,000	\$450,000	
EOY reallocate CIP funds	\$370,000	\$370,000						
Project Balance		\$1,130,000	\$2,170,000	\$3,210,000	\$4,220,000	\$1,945,000	\$0	\$0

T2040 Major Routes Lawrence-Douglas County MPO



Intersection of K-10 / Wakarusa Drive / W 27th Street



Bridge 0964-1000 Replacement

Project Number: 2020-31
 Construction Year: 2021
 Total Cost: \$1,800,000

Description: Replacement of the bridge carrying E1000 RD over Washington Creek (230 vehicles/day). The existing steel girder bridge was built in 1961, and is one of three fracture critical bridges in the county.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$754,000	\$1,254,000	\$1,650,000	\$1,675,000	\$0	\$0
CIP budget allocations	\$1,046,000		\$500,000	\$396,000	\$150,000			
Engineering	(\$110,000)				(\$110,000)			
Right-of-way	(\$15,000)				(\$15,000)			
Utility Reloc	(\$75,000)					(\$75,000)		
Construction	(\$1,600,000)					(\$1,600,000)		
EOY reallocate CIP funds	\$754,000	\$754,000						
Project Balance		\$754,000	\$1,254,000	\$1,650,000	\$1,675,000	\$0	\$0	\$0

High flow in Washington Creek July 2017



Existing steel girders



Bridge 0900-1088 Replacement

Project Number: 2021-31
 Construction Year: 2022
 Total Cost: \$390,000

Description: Replacement of the bridge carrying N900 RD over a tributary to Washington Creek (150 vehicles/day). The existing concrete bridge was built in 1935.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$110,000	\$0
CIP budget allocations	\$390,000					\$150,000	\$240,000	
Engineering	(\$40,000)					(\$40,000)		
Right-of-way	(\$10,000)						(\$10,000)	
Utility Reloc	(\$10,000)						(\$10,000)	
Construction	(\$330,000)						(\$330,000)	
Project Balance		\$0	\$0	\$0	\$0	\$110,000	\$0	\$0

Existing span



Existing roadway



Rte 1061 / Rte 460 Intersection Improvements

Project Number: 2019-11
 Construction Year: 2023
 Total Cost: \$1,600,000

Description: Safety improvements on Route 1061 intersecting Route 460 (2,300 vehicles/day). This project will reconstruct the roadway to address limited sight distance. This will require significant grading or alignment changes to revise road elevations.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$700,000	\$1,100,000	\$1,430,000
CIP budget allocations	\$1,600,000				\$700,000	\$400,000	\$380,000	\$120,000
Right-of-way	(\$50,000)						(\$50,000)	
Utility Reloc	(\$50,000)							(\$50,000)
Construction	(\$1,500,000)							(\$1,500,000)
Project Balance		\$0	\$0	\$0	\$700,000	\$1,100,000	\$1,430,000	\$0

Existing intersection



Bridge 0600-0172 Replacement

Project Number: 2021-32
 Construction Year: 2023
 Total Cost: \$870,000

Description: Replacement of the bridge carrying Route 460 (N600 RD) over Saint Francis Tributary to Rock Creek (50 vehicles/day). The existing concrete bridge was built in 1936.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$300,000	\$520,000
CIP budget allocations	\$970,000	\$100,000				\$300,000	\$300,000	\$270,000
Engineering	(\$80,000)						(\$80,000)	
Right-of-way	(\$10,000)							(\$10,000)
Utility Reloc	(\$30,000)							(\$30,000)
Construction	(\$750,000)							(\$750,000)
EOY reallocate CIP funds	(\$100,000)	(\$100,000)						
Project Balance		\$0	\$0	\$0	\$0	\$300,000	\$520,000	\$0

Existing roadway



Existing abutment



Rte 1055 (E1650 RD) Improvements

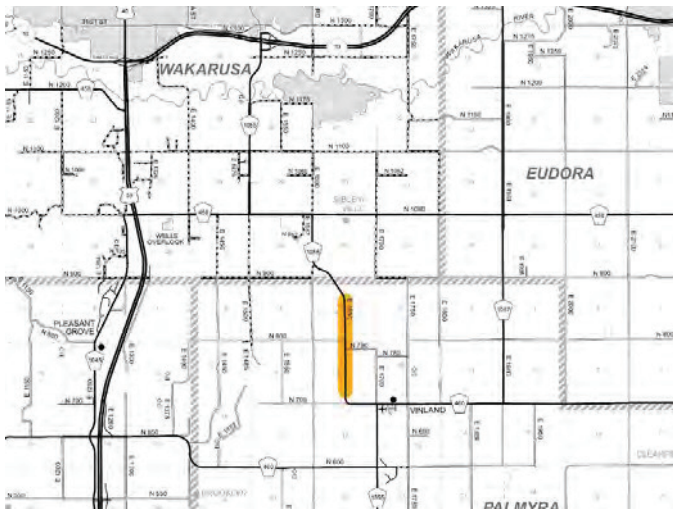
Project Number: 2022-15
 Construction Year: 2024
 Total Cost: \$2,025,000

Description: Safety improvements on Route 1055, from N700 RD to a point 1.9 miles north (2,490 vehicles/day). The project will replace six existing culverts. The design will evaluate realignment of the curve at 870 north and possible paved shoulders in some areas. The existing pavement will be patched and surfaced with asphalt. This project will complete the multi-year plan to improve Route 1055 from Baldwin City to Lawrence.

Project Costs and Funding

LinItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward		\$450,000	\$0	\$0	\$0	\$0	\$300,000	\$800,000
CIP budget allocations	\$3,225,000	\$750,000				\$300,000	\$500,000	\$500,000
Engineering	(\$50,000)							(\$50,000)
Right-of-way	(\$150,000)							(\$150,000)
Utility Reloc	(\$200,000)							
Construction	(\$1,600,000)							
Dust Control	(\$25,000)							
EOY reallocate CIP funds	(\$1,200,000)	(\$1,200,000)						
Project Balance		\$0	\$0	\$0	\$0	\$300,000	\$800,000	\$1,100,000

Project location



Existing narrow culvert



Rte 1061 Improvements, N400 to N600

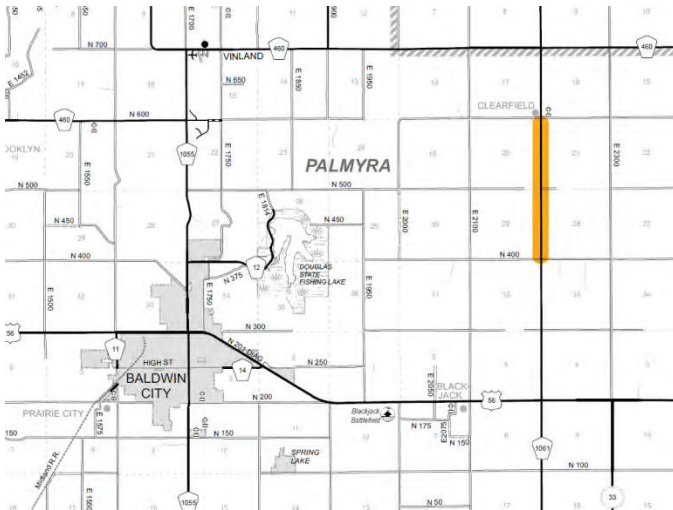
Project Number: 2023-11
 Construction Year: 2026
 Total Cost: \$3,790,000

Description: Safety improvements on Route 1061, 2.0 miles in length (2,100 vehicles/day). The project will add paved shoulders, flatten roadside slopes, replace twelve culverts, and make repairs to bridge 0510-2200. The design will evaluate sight distance and possible vertical alignment improvements. The existing pavement will be patched and surfaced with asphalt.

Project Costs and Funding

Linitem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$300,000
CIP budget allocations	\$2,290,000						\$300,000	\$385,000
Engineering	(\$40,000)							
Right-of-way	(\$150,000)							
Utility Reloc	(\$200,000)							
Construction	(\$3,400,000)							
Deposit KDOT FFE	\$1,500,000							\$500,000
Project Balance		\$0	\$0	\$0	\$0	\$0	\$300,000	\$1,185,000

Project location



Existing bridge 0510-2200



Bridge 1455-2170 Replacement, Rte 1061 / Wakarusa River at Eudora

Project Number: 2026-31
 Construction Year: 2029
 Total Cost: \$5,150,000

Description: Replacement of the bridge carrying Route 1061 (Main Street) over the Wakarusa River (2,400 vehicles/day). The existing 264' long, steel girder bridge was built in 1956. This bridge is classified Functionally Obsolete.

Project Costs and Funding

LineItem	Total	2017	2018	2019	2020	2021	2022	2023
Balance forward			\$0	\$0	\$0	\$0	\$0	\$0
CIP budget allocations	\$5,150,000							\$300,000
Engineering	(\$500,000)							
Right-of-way	(\$20,000)							
Utility Reloc	(\$30,000)							
Construction	(\$4,600,000)							
Project Balance		\$0	\$0	\$0	\$0	\$0	\$0	\$300,000

Existing span



Existing roadway

