



DOUGLAS COUNTY
CAPITAL IMPROVEMENT PLAN

2019

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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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



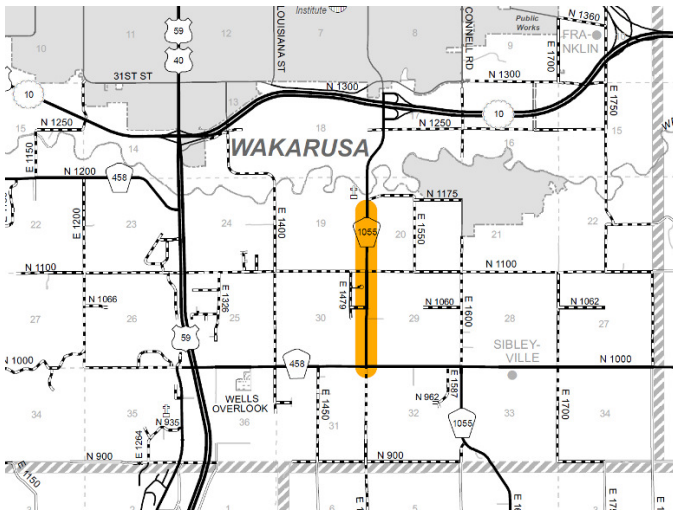
Rte 1055 Improvements, N1000 to N1180

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

LineItem	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

LineItem	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



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

Project Costs and Funding

LineItem	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

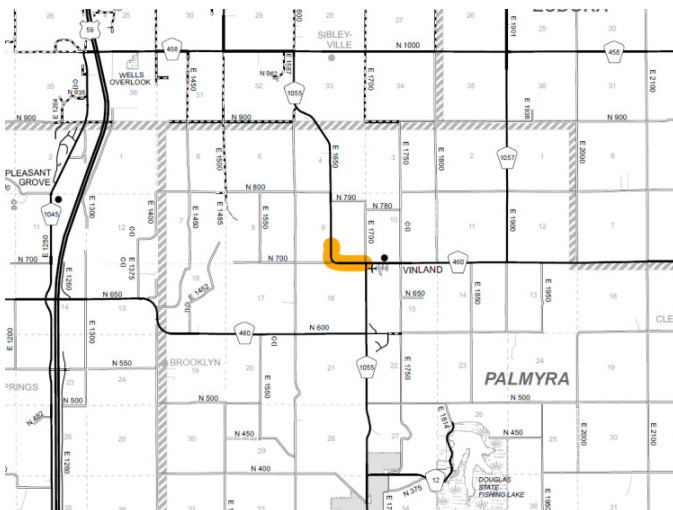
Rte 1055 Improvements, E1650 to E1700, Bridges 0700-1665 and 0714-1650

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

LineItem	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

LineItem	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



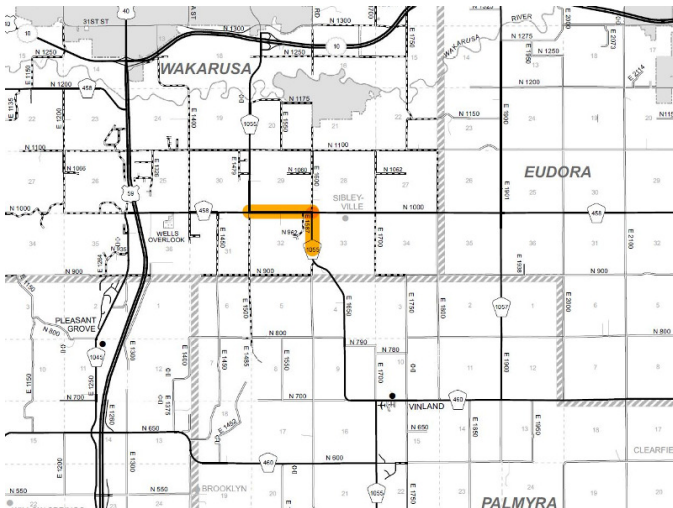
Rte 458/1055 Improvements, E1500 thru E1600

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

LineItem	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

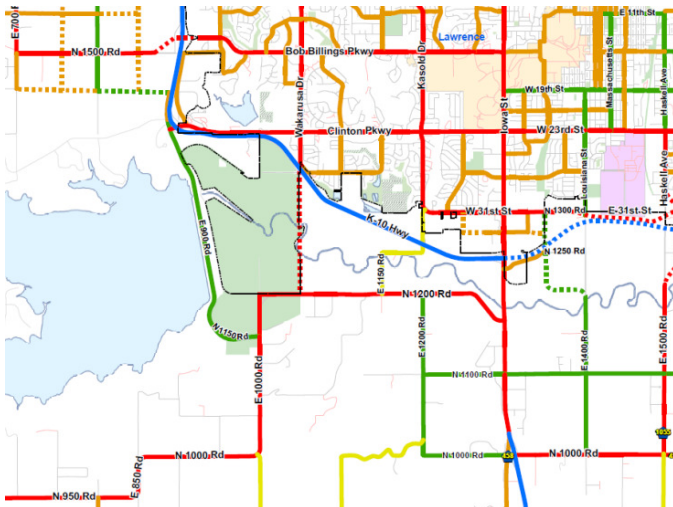
Project Number: 2018-11
 Construction Year: 2021
 Total Cost: \$6,200,000

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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

LineItem	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

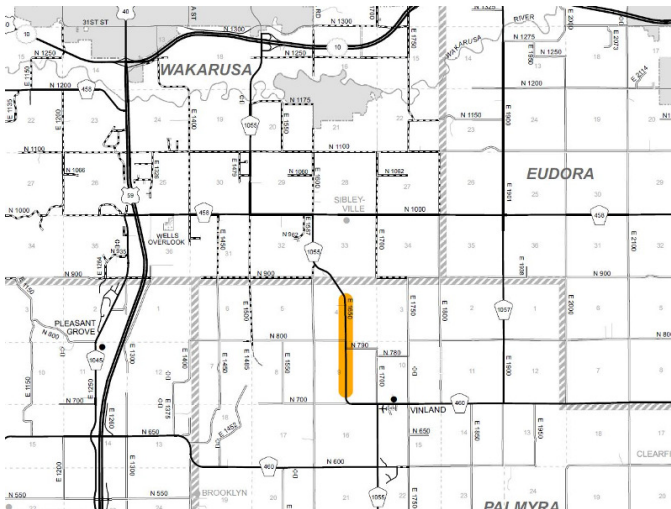
Project Number: 2022-15
 Construction Year: 2024
 Total Cost: \$2,025,000

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

LineItem	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

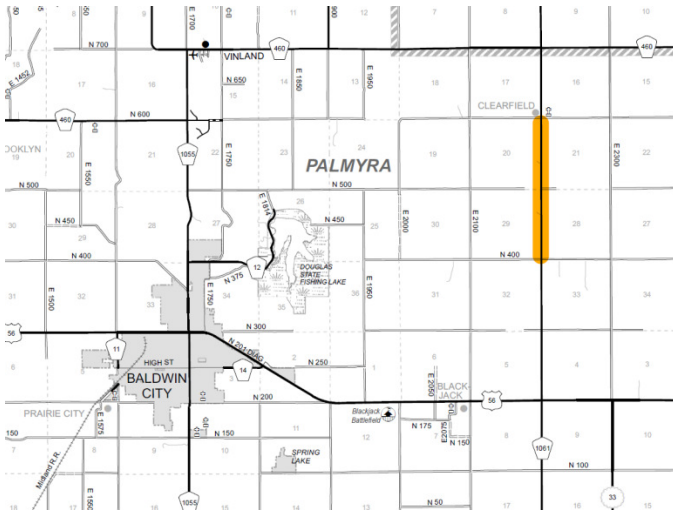
Project Number: 2023-11
 Construction Year: 2026
 Total Cost: \$3,790,000

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

