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Overland Park, Kansas 66212
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March 25, 2019

Mr. Kent Lage, P.E.
Johnson County Public Works Department
1800 W. Old Highway 56
Olathe, Kansas 66061

**COUNTY ASSISTANCE ROAD SYSTEM (CARS)
PROPOSED 2020-2024 FIVE-YEAR PROGRAM SUBMISSION**

Dear Kent:

We are pleased to submit our 2020-2024 CARS Five-Year Program for your review and recommendation for funding. We have requested CARS funding for twenty-seven projects. For these twenty-seven projects our total Five-Year CARS request is \$28,610,000. For the eleven projects programmed for 2020 our funding request is \$8,381,000.

- Our top priority project for 2020 is Quivira Road, 159th Street to 179th Street. This is a continuation project which received \$3,651,000 in 2019 CARS funding. Our 2020 funding request for this continuation project is \$3,906,000. An updated project cost estimate and plans are included with our submittal.

In lieu of a separate city resolution, please accept the enclosed City's five-year Capital Improvement Program and Maintenance Program as acknowledgement and acceptance of our CARS Five-Year Program request.

The CARS program is a very significant contributor to our ability to provide the needed transportation infrastructure in Overland Park. We are confident that your review of the 2020 program funding requests will recognize the critical needs in Overland Park and recommend funding allocations accordingly.

If you have any questions, please do not hesitate to contact me at (913) 895-6023.

Sincerely,



LORRAINE BASALO, P.E.
ACTING CITY ENGINEER

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Enclosures: County Assistance Road System 2020-2024 Program Summary Sheet
County Assistance Road System Form A's with Project Map
Current Project Cost Estimates for the 2020 Program Year
City of Overland Park 2019-2023 Capital Improvements Program and Maintenance Program

Email: Bill Ebel, City Manager
Kristy Stallings, Deputy City Manager
Tony Hofmann, Director of Public Works

Brian Shields, P.E., City Traffic Engineer
Wayne Gudenkauf, P.E., Supervisory Civil Engineer
Kyle Dieckmann, P.E., Supervisory Civil Engineer

**County Assistance Road System
2020-2024 Program Summary Sheet**

Participating City: Overland Park

Year/ Priority	Project Location	Proposed		Project Type	Total Project Cost	Total Construction Cost	Federal Funding	CARS Eligible	CARS Program Funding Request
		Start	Finish						
20-1	Quivira Road, 159th Street to 179th Street (Continuation Project from 2019)	Jun-19	Jun-21	Capacity / System Management	\$ 27,137,985	\$ 20,287,985	\$ 4,662,500	\$ 15,625,485	\$ 3,906,000
20-2	179th Street, Metcalf Avenue to US-69	Mar-20	Oct-20	Capacity	\$ 2,603,817	\$ 1,503,817	\$ -	\$ 1,503,817	\$ 751,000
20-3	Nall Avenue, 83rd Street to 95th Street, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 1,084,000	\$ 1,084,000	\$ -	\$ 1,084,000	\$ 542,000
20-4	Metcalf Avenue, 75th Street to 83rd Street, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 543,420	\$ 543,420	\$ -	\$ 543,420	\$ 271,000
20-5	Metcalf Avenue, 83rd Street to 91st Street, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 1,242,600	\$ 1,242,600	\$ -	\$ 1,242,600	\$ 621,000
20-6	College Boulevard, Pflumm Road to Quivira Road, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 1,108,400	\$ 1,108,400	\$ -	\$ 1,108,400	\$ 554,000
20-7	College Boulevard, Quivira Road to Switzer Road, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 596,800	\$ 596,800	\$ -	\$ 596,800	\$ 298,000
20-8	College Boulevard, Benson to Metcalf Avenue, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 982,800	\$ 982,800	\$ -	\$ 982,800	\$ 491,000
20-9	College Boulevard, Metcalf Avenue to Nall Avenue, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 1,115,200	\$ 1,115,200	\$ -	\$ 1,115,200	\$ 557,000
20-10	151st Street, Switzer Road to Antioch Road, Overlay	Mar-20	Oct-20	Major Maintenance	\$ 520,000	\$ 520,000	\$ -	\$ 520,000	\$ 260,000
20-11	Antioch Road and 124th Street, Traffic Signal	Feb-20	Dec-20	System Management	\$ 310,000	\$ 260,000	\$ -	\$ 260,000	\$ 130,000
Total 2020									\$ 8,381,000

21-1	167th Street Bridges over Coffee Creek and Coffee Creek East Tributary	Mar-21	Oct-21	Bridge (New)	\$ 9,100,000	\$ 7,995,000	\$ -	\$ 7,995,000	\$ 3,997,000
21-2	Mission Road, 95th Street to 103rd Street, Overlay	Mar-21	Oct-21	Major Maintenance	\$ 775,600	\$ 775,600	\$ -	\$ 775,600	\$ 387,000
21-3	Switzer Road, 135th Street to 151st Street, Overlay	Mar-21	Oct-21	Major Maintenance	\$ 2,000,000	\$ 2,000,000	\$ -	\$ 2,000,000	\$ 1,000,000
21-4	143rd Street, Quivira Road to Antioch Road, Overlay	Mar-21	Oct-21	Major Maintenance	\$ 1,864,200	\$ 1,864,200	\$ -	\$ 1,864,200	\$ 932,000
21-5	103rd Street, Goddard to Mastin, Overlay	Mar-21	Oct-21	Major Maintenance	\$ 323,500	\$ 323,500	\$ -	\$ 323,500	\$ 161,000
21-6	127th Street, Metcalf Avenue to Nall Avenue, Overlay	Mar-21	Oct-21	Major Maintenance	\$ 937,600	\$ 937,600	\$ -	\$ 937,600	\$ 468,000

Total 2021 \$ 6,945,000

**County Assistance Road System
2020-2024 Program Summary Sheet**

Participating City: Overland Park

Year/ Priority	Project Location	Proposed		Project Type	Total Project Cost	Total Construction Cost	Federal Funding	CARS Eligible	CARS Program Funding Request
		Start	Finish						
22-1	Switzer Road, 159th Street to 167th Street	Mar-22	Oct-22	Capacity / System Management	\$ 13,327,500	\$ 9,327,500	\$ 5,000,000	\$ 4,327,500	\$ 2,163,000
22-2	Antioch Road, 108th Terrace to 119th Street, Overlay	Mar-22	Oct-22	Major Maintenance	\$ 1,733,050	\$ 1,733,050	\$ -	\$ 1,733,050	\$ 866,000
22-3	Antioch Road, 151st Street to 159th Street, Overlay	Mar-22	Oct-22	Major Maintenance	\$ 957,200	\$ 957,200	\$ -	\$ 957,200	\$ 478,000
22-4	Roe Avenue, 119th Street to Tomahawk Creek Bridge, Overlay	Mar-22	Oct-22	Major Maintenance	\$ 400,660	\$ 400,660	\$ -	\$ 400,660	\$ 200,000

Total 2022 \$ 3,707,000

23-1	167th Street, Switzer Road to Antioch Road	Mar-23	Oct-23	Capacity	\$ 11,890,000	\$ 8,640,000	\$ -	\$ 8,640,000	\$ 4,320,000
23-2	103rd Street, Nall Avenue to Mission Road, Overlay	Mar-23	Oct-23	Major Maintenance	\$ 683,700	\$ 683,700	\$ -	\$ 683,700	\$ 341,000
23-3	75th Street, Frontage Road to Metcalf Avenue, Overlay	Mar-23	Oct-23	Major Maintenance	\$ 1,241,000	\$ 1,241,000	\$ -	\$ 1,241,000	\$ 620,000

Total 2023 \$ 5,281,000

24-1	College Boulevard Bridge over Indian Creek	Mar-24	Oct-24	Bridge Replacement	\$ 8,140,000	\$ 7,090,000	\$ -	\$ 7,090,000	\$ 3,545,000
24-2	Quivira Road, College Boulevard to 109th Street, Overlay	Mar-24	Oct-24	Major Maintenance	\$ 475,180	\$ 475,180	\$ -	\$ 475,180	\$ 237,000
24-3	159th Street, Antioch Road to Metcalf Avenue, Overlay	Mar-24	Oct-24	Major Maintenance	\$ 1,028,000	\$ 1,028,000	\$ -	\$ 1,028,000	\$ 514,000

Total 2024 \$ 4,296,000

Year	CARS Program Funding Request
2020	\$ 8,381,000
2021	\$ 6,945,000
2022	\$ 3,707,000
2023	\$ 5,281,000
2024	\$ 4,296,000
Total	\$ 28,610,000

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 1

Project Location: Quivira Road, 159th Street to 179th Street (Continuation Project from 2019)

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Kyle Dieckmann, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 06/2019 Completion Date (mo/yr): 06/2021

Current Average Daily Traffic (ADT): 4570 Year (2018) Accident History (Prior 3 Years): 22

Project Type: Capacity / System Management (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: F

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Two-lane unimproved section line road 24 foot wide with no curb and gutter, storm sewers, street lights, or sidewalks.

Detailed Description of Project Scope:

Reconstruct Quivira Road from just south of 159th Street to 179th Street from and unimproved 2-lane roadway to a divided 2-lane thoroughfare with raised median, turn lanes, shoulders, storm sewers, sidewalks and street lighting. A traffic signal will be constructed at Quivira and 159th intersection and roundabouts will be constructed along Quivira at the intersections of 165th Street, 167th Street and 175th Street. A new bridge will be constructed over Coffee Creek. The project also includes restoration, landscaping and other appurtenances.

Project Cost Information *

1. Design cost:	\$2,350,000
2. Right-of-way acquisition cost:	\$1,500,000
3. Utility relocation cost:	\$3,000,000
4. Construction cost:	\$19,087,985
5. Construction engineering cost:	\$1,200,000
Total project cost:	\$27,137,985

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$20,287,985
B. Federal Aid Participation	(-)	\$4,662,500
C. State Aid Participation	(-)	
D. Other Non-local Participation	(-)	
Subtotal (CARS eligible costs)		\$15,625,485
CARS Funding request		\$3,906,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.



ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park
Project: Quivira - 159th to 179th TH-1665
Project Number: 016-3165
Date: 3/19/2019

	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST \$	COST \$	KDOT NON - PARTICIPATING
1	Force Account (Set)*	1	Lump Sum	\$250,000.00	\$250,000.00	Non Participating
2	Maintenance Bond *	1	Lump Sum	\$75,000.00	\$75,000.00	Non Participating
3	Clearing and Grubbing	1	Lump Sum	\$150,000.00	\$150,000.00	
4	Removal of Existing Structures	1	Lump Sum	\$350,000.00	\$350,000.00	
5	Unclassified Excavation	77487	Cu. Yd.	\$13.00	\$1,007,331.00	
6	Embankment (Contractor Furnished)	76593	Cu. Yd.	\$15.00	\$1,148,895.00	
7	Excavation (Unsuitable)	6000	Cu. Yd.	\$15.00	\$90,000.00	
8	Excavation (Unstable)	6000	Cu. Yd.	\$15.00	\$90,000.00	
9	Compaction of Earthwork (All types)	123309	Cu. Yd.	\$2.00	\$246,618.00	
10	Asphaltic Concrete (Surface Course)	330	Ton	\$80.00	\$26,400.00	
11	Asphaltic Concrete (Intermediate Course)	1126	Ton	\$71.00	\$79,946.00	
12	Temporary Surfacing Material (AB-3 OP Modified)	2000	Ton	\$30.00	\$60,000.00	
13	Temporary Surfacing Material (Intermediate Course)	410	Ton	\$75.00	\$30,750.00	
14	Aggregate for Base (AB-3 O.P. Modified)(4")	14992	Sq. Yd.	\$4.50	\$67,464.00	
15	Aggregate for Base (AB-3 O.P. Modified)(6")	70746	Sq. Yd.	\$7.00	\$495,222.00	
16	Fly Ash	3701	Ton	\$60.00	\$222,078.00	
17	Manipulation for Fly Ash Treated Subgrade (8")	71217	Sq. Yd.	\$3.20	\$227,893.12	
18	KCMMB 4K Concrete (ISRW)	190	Cu. Yd.	\$900.00	\$171,000.00	
19	KCMMB 5K Concrete (RCB)	599	Cu. Yds.	\$1,025.00	\$613,975.00	
20	Class III Excavation	269	Cu. Yds.	\$35.00	\$9,415.00	
21	Foundation Stabilization	155	Cu. Yds.	\$40.00	\$6,200.00	
22	Concrete for Seal Course (Set)	1	Cu. Yds.	\$175.00	\$175.00	
23	Granular Backfill (Wingwalls)	52	Cu. Yds.	\$60.00	\$3,120.00	
	NORTHBOUND BRIDGE OVER COFFEE CREEK					
24	Class I Excavation	181	Cu. Yd.	\$30.00	\$5,430.00	
25	Class II Excavation	54	Cu. Yd.	\$95.00	\$5,130.00	
26	KCMMB 5K Concrete	500	Cu. Yd.	\$750.00	\$375,300.00	
27	Reinforcing Steel (Grade 60)	16090	Lbs.	\$1.10	\$17,699.00	
28	Reinforcing Steel (Grade 60) (Epoxy Coated)	86270	Lbs.	\$1.20	\$103,524.00	
29	Pile (Steel) (HP12x53)	190	Lin. Ft.	\$85.00	\$16,150.00	
30	Pre-Drilled Pile Holes	166	Lin. Ft.	\$175.00	\$29,050.00	
31	Drilled Shaft (54") (Cased)	85	Lin. Ft.	\$850.00	\$72,250.00	
32	Sonic Test (Drilled Shaft) (Set Price)	1	Each	\$2,050.00	\$2,050.00	
33	Core Hole (Investigative)	65	Lin. Ft.	\$105.00	\$6,825.00	
34	Prestressed Concrete Beam (K4)	1264	Lin. Ft.	\$230.00	\$290,720.00	
35	Bridge Handrail (Metal) (1'-10")	318	Lin. Ft.	\$125.00	\$39,750.00	
36	Bridge Handrail (Metal) (4'-6")	343	Lin. Ft.	\$175.00	\$60,025.00	
37	Abutment Aggregate Drain	106	Cu. Yd.	\$205.00	\$21,730.00	
38	Bridge Backwall Protection System	92	Sq. Yd.	\$45.00	\$4,140.00	
39	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	584	Cu. Yd.	\$70.00	\$40,880.00	
40	Curing Environment	1	Lump Sum	\$2,500.00	\$2,500.00	
41	Bridge Number Plaque	1	Each	\$350.00	\$350.00	
42	Electric Conduit (Non-Metallic)	341	Lin. Ft.	\$12.00	\$4,092.00	
	SOUTHBOUND BRIDGE OVER COFFEE CREEK					
43	Class I Excavation	226	Cu. Yd.	\$30.00	\$6,780.00	
44	Class II Excavation	78	Cu. Yd.	\$95.00	\$7,410.00	
45	KCMMB 5K Concrete	654	Cu. Yd.	\$750.00	\$490,275.00	
46	Reinforcing Steel (Grade 60)	21760	Lbs.	\$1.10	\$23,936.00	
47	Reinforcing Steel (Grade 60) (Epoxy Coated)	111400	Lbs.	\$1.20	\$133,680.00	
48	Pile (Steel) (HP12x53)	190	Lin. Ft.	\$85.00	\$16,150.00	
49	Pre-Drilled Pile Holes	166	Lin. Ft.	\$175.00	\$29,050.00	
50	Drilled Shaft (54") (Cased)	123	Lin. Ft.	\$850.00	\$104,550.00	
51	Sonic Test (Drilled Shaft) (Set Price)	1	Each	\$2,050.00	\$2,050.00	
52	Core Hole (Investigative)	63	Lin. Ft.	\$105.00	\$6,615.00	
53	Prestressed Concrete Beam (K4)	1264	Lin. Ft.	\$240.00	\$303,360.00	
54	Bridge Handrail (Metal) (1'-10")	318	Lin. Ft.	\$125.00	\$39,750.00	
55	Bridge Handrail (Metal) (4'-6")	341	Lin. Ft.	\$175.00	\$59,675.00	
56	Abutment Aggregate Drain	131	Cu. Yd.	\$205.00	\$26,855.00	
57	Bridge Backwall Protection System	111	Sq. Yd.	\$45.00	\$4,995.00	
58	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	632	Cu. Yd.	\$70.00	\$44,240.00	
59	Curing Environment	1	Lump Sum	\$2,500.00	\$2,500.00	
60	Bridge Number Plaque	1	Each	\$350.00	\$350.00	



ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park
Project: Quivira - 159th to 179th TH-1665
Project Number: 016-3165
Date: 3/19/2019

	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST \$	COST \$	KDOT NON - PARTICIPATING
61	Electric Conduit (Non-Metallic)	341	Lin. Ft.	\$12.00	\$4,092.00	
0	NORTHBOUND BRIDGE OVER NORTH TRIBUTARY					
62	Class I Excavation	127	Cu. Yd.	\$55.00	\$6,985.00	
63	Class II Excavation	77	Cu. Yd.	\$105.00	\$8,085.00	
64	KCMMB 5K Concrete	339	Cu. Yd.	\$650.00	\$220,025.00	
65	Reinforcing Steel (Grade 60)	1840	Lbs.	\$1.10	\$2,024.00	
66	Reinforcing Steel (Grade 60) (Epoxy Coated)	75290	Lbs.	\$1.20	\$90,348.00	
67	Pile (Steel) (HP10x42)	459	Lin. Ft.	\$60.00	\$27,540.00	
68	Pre-Drilled Pile Holes	304	Lin. Ft.	\$175.00	\$53,200.00	
69	Bridge Handrail (Metal) (1'-10")	118	Lin. Ft.	\$125.00	\$14,750.00	
70	Bridge Handrail (Metal) (4'-6")	137	Lin. Ft.	\$175.00	\$23,975.00	
71	Abutment Aggregate Drain	42	Cu. Yd.	\$205.00	\$8,610.00	
72	Bridge Backwall Protection System	63	Sq. Yd.	\$45.00	\$2,835.00	
73	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	846	Cu. Yds.	\$70.00	\$59,220.00	
74	Bridge Number Plaque	1	Each	\$350.00	\$350.00	
75	Electric Conduit (Non-Metallic)	142	Lin. Ft.	\$12.00	\$1,704.00	
	SOUTHBOUND BRIDGE OVER NORTH TRIBUTARY					
76	Class I Excavation	126	Cu. Yd.	\$55.00	\$6,930.00	
77	Class II Excavation	64	Cu. Yd.	\$105.00	\$6,720.00	
78	KCMMB 5K Concrete	288	Cu. Yd.	\$650.00	\$187,200.00	
79	Reinforcing Steel (Grade 60)	1460	Lbs.	\$1.10	\$1,606.00	
80	Reinforcing Steel (Grade 60) (Epoxy Coated)	66680	Lbs.	\$1.20	\$80,016.00	
81	Pile (Steel) (HP10x42)	366	Lin. Ft.	\$60.00	\$21,960.00	
82	Pre-Drilled Pile Holes	244	Lin. Ft.	\$175.00	\$42,700.00	
83	Bridge Handrail (Metal) (1'-10")	118	Lin. Ft.	\$125.00	\$14,750.00	
84	Bridge Handrail (Metal) (4'-6")	138	Lin. Ft.	\$175.00	\$24,150.00	
85	Abutment Aggregate Drain	42	Cu. Yd.	\$205.00	\$8,610.00	
86	Bridge Backwall Protection System	59	Sq. Yd.	\$45.00	\$2,655.00	
87	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	704	Cu. Yd.	\$70.00	\$49,280.00	
88	Bridge Number Plaque	1	Each	\$350.00	\$350.00	
89	KCMMB 4K Concrete (Distribution Slab)	67	Cu. Yd.	\$310.00	\$20,770.00	
90	KCMMB 4K Concrete (Bridge Approach Slab Footing)	127	Cu. Yd.	\$375.00	\$47,625.00	
91	Concrete Pavement (6")(Tack-On Median)	13	Sq. Yd.	\$600.00	\$7,800.00	
92	Concrete Pavement (6" Uniform)(AE)(PLAIN)	489	Sq. Yd.	\$60.00	\$29,340.00	
93	Concrete Pavement (8" Uniform)(AE)(PLAIN)	121	Sq. Yd.	\$70.00	\$8,470.00	
94	Concrete Pavement (9" Uniform)(AE)(NRDJ)	55740	Sq. Yd.	\$61.00	\$3,400,140.00	
95	Concrete Pavement (12" UNIFORM)(AE)(BR APP)	1031	Sq. Yd.	\$200.00	\$206,200.00	
96	Curb and Gutter, Combined (Type A)	845	Lin. Ft.	\$20.00	\$16,900.00	
97	Curb and Gutter, Combined (Type B)	7947	Lin. Ft.	\$18.00	\$143,046.00	
98	Curb and Gutter, Combined (Type C)	1099	Lin. Ft.	\$18.00	\$19,782.00	
99	Curb and Gutter, Combined (Type E)	22211	Lin. Ft.	\$17.00	\$377,587.00	
100	Curb and Gutter, Replacement	46	Lin. Ft.	\$24.00	\$1,104.00	
101	Concrete Median Nose	10	Each	\$1,500.00	\$15,000.00	
102	Paver Bricks	21981	Sq. Ft.	\$18.00	\$395,658.00	
103	Concrete Paver Stones	5161	Sq. Ft.	\$13.00	\$67,093.00	
104	Sidewalk Construction (4")	67194	Sq. Ft.	\$4.50	\$302,373.00	
105	Sidewalk Construction Reinforced (6")	369	Sq. Ft.	\$7.50	\$2,767.50	
106	Sidewalk Ramp With Detectable Warning Surface	6415	Sq. Ft.	\$16.00	\$102,640.00	
107	Detectable Warning Surface	1249	Sq. Ft.	\$50.00	\$62,450.00	
108	Asphalt Sidewalk (Intermediate Course)(4")	3227	Ton	\$75.00	\$242,025.00	
109	15" Storm Sewer (RCP Class III)	838	Lin. Ft.	\$75.00	\$62,850.00	
110	18" Storm Sewer (RCP Class III)	1071	Lin. Ft.	\$80.00	\$85,680.00	
111	24" Storm Sewer (RCP Class III)	1327	Lin. Ft.	\$90.00	\$119,430.00	
112	30" Storm Sewer (RCP Class III)	3088	Lin. Ft.	\$105.00	\$324,240.00	
113	36" Storm Sewer (RCP Class III)	1283	Lin. Ft.	\$130.00	\$166,790.00	
114	42" Storm Sewer (RCP Class III)	161	Lin. Ft.	\$175.00	\$28,175.00	
115	54" Storm Sewer (RCP Class III)	34	Lin. Ft.	\$200.00	\$6,800.00	
116	30" Elliptical Storm Sewer (RCP Class III)	292	Lin. Ft.	\$150.00	\$43,800.00	
117	24" Arch Storm Sewer (RCP Class III)	144	Lin. Ft.	\$125.00	\$18,000.00	
118	36" Arch Storm Sewer (RCP Class III)	74	Lin. Ft.	\$175.00	\$12,950.00	
119	48" Arch Storm Sewer (RCP Class III)	225	Lin. Ft.	\$185.00	\$41,625.00	
120	30" High-Density Polyethylene Pipe (HDPE)	232	Lin. Ft.	\$75.00	\$17,400.00	
121	36" High-Density Polyethylene Pipe (HDPE)(Temporary)	60	Lin. Ft.	\$85.00	\$5,100.00	
122	12" Entrance Pipe (RCP Class III)	95	Lin. Ft.	\$50.00	\$4,750.00	



ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park
 Project: Quivira - 159th to 179th TH-1665
 Project Number: 016-3165
 Date: 3/19/2019

	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST \$	COST \$	KDOT NON - PARTICIPATING
123	15" Entrance Pipe (RCP Class III)	22	Lin. Ft.	\$60.00	\$1,320.00	
124	24" Entrance Pipe (RCP Class III)	20	Lin. Ft.	\$70.00	\$1,400.00	
125	18" Arch Entrance Pipe (RCP Class III)	17	Lin. Ft.	\$75.00	\$1,275.00	
126	24" Arch Entrance Pipe (RCP Class III)	16	Lin. Ft.	\$85.00	\$1,360.00	
127	End Section (12")(RC)	8	Each	\$1,100.00	\$8,800.00	
128	End Section (15")(RC)	3	Each	\$1,200.00	\$3,600.00	
129	End Section (18")(RC)	1	Each	\$1,400.00	\$1,400.00	
130	End Section (24")(RC)	2	Each	\$1,600.00	\$3,200.00	
131	End Section (30")(RC)	1	Each	\$2,400.00	\$2,400.00	
132	End Section (36")(RC)	1	Each	\$2,600.00	\$2,600.00	
133	End Section (54")(RC)	1	Each	\$3,000.00	\$3,000.00	
134	End Section (18") Arch (RC)	2	Each	\$1,600.00	\$3,200.00	
135	End Section (24") Arch (RC)	2	Each	\$2,000.00	\$4,000.00	
136	End Section (48") Arch (RC)	1	Each	\$3,000.00	\$3,000.00	
137	End Section (24")(Type IV)	3	Each	\$1,600.00	\$4,800.00	
138	End Section (30")(Type IV)	1	Each	\$2,400.00	\$2,400.00	
139	End Section (30") High-Density Polyethylene (HDPE)	1	Each	\$1,500.00	\$1,500.00	
140	Inlet (Non-Setback Curb)(6'x4')(Complete)	1	Each	\$5,500.00	\$5,500.00	
141	Inlet (Non-Setback Curb)(6'x5')(Complete)	2	Each	\$5,700.00	\$11,400.00	
142	Inlet (Curb)(4'x4')(Complete)	2	Each	\$5,000.00	\$10,000.00	
143	Inlet (Curb)(6'x4')(Complete)	11	Each	\$5,500.00	\$60,500.00	
144	Inlet (Curb)(6'x5')(Complete)	3	Each	\$5,600.00	\$16,800.00	
145	Inlet (Curb)(8'x6')(Complete)	1	Each	\$8,800.00	\$8,800.00	
146	Inlet (Area)(4'x4')	7	Each	\$4,900.00	\$34,300.00	
147	Inlet (Area)(5'x4')	1	Each	\$5,400.00	\$5,400.00	
148	Inlet (Area)(6'x4')	2	Each	\$5,500.00	\$11,000.00	
149	Inlet (Area)(5'x4')(Type A)	2	Each	\$5,000.00	\$10,000.00	
150	Inlet (Area)(6'x3')(Type B)	2	Each	\$5,000.00	\$10,000.00	
151	Inlet (Area)(6'x4')(Type A)	2	Each	\$5,500.00	\$11,000.00	
152	Inlet (Area)(6'x5')(Type A)	3	Each	\$6,000.00	\$18,000.00	
153	Inlet (Area)(6'x5')(Type C)	1	Each	\$8,000.00	\$8,000.00	
154	Inlet (Area)(6'x6')(Type A)	1	Each	\$6,500.00	\$6,500.00	
155	Inlet (Area)(8'x3')(Type B)	4	Each	\$6,500.00	\$26,000.00	
156	Inlet (Area)(8'x4')(Type A)	3	Each	\$7,000.00	\$21,000.00	
157	Inlet (Area)(8'x4')(Type C)	1	Each	\$10,000.00	\$10,000.00	
158	Inlet (Area)(8'x5')(Type A)	4	Each	\$7,500.00	\$30,000.00	
159	Inlet (Area)(8'x5')(Type C)	1	Each	\$10,500.00	\$10,500.00	
160	Inlet (Area)(8'x6')(Type A)	3	Each	\$8,500.00	\$25,500.00	
161	Inlet (Area)(8'x6')(Type C)	2	Each	\$11,000.00	\$22,000.00	
162	Inlet (Area)(10'x4')	1	Each	\$9,000.00	\$9,000.00	
163	Inlet (Grate)(Special)(4'x4')(Complete)	3	Each	\$7,000.00	\$21,000.00	
164	Inlet (Flume)(Concrete)	16	Each	\$1,800.00	\$28,800.00	
165	Drain Basin (12")	3	Each	\$1,500.00	\$4,500.00	
166	Drain Basin (15")	2	Each	\$1,800.00	\$3,600.00	
167	Junction Box (4'x4')(Complete)	4	Each	\$4,900.00	\$19,600.00	
168	Junction Box (4'x5')(Complete)	5	Each	\$5,200.00	\$26,000.00	
169	Junction Box (5'x5') (Complete)	2	Each	\$5,400.00	\$10,800.00	
170	Junction Box (6'x4')(Complete)	2	Each	\$5,500.00	\$11,000.00	
171	Junction Box (6'x5')(Complete)	3	Each	\$5,600.00	\$16,800.00	
172	Junction Box (6'x6')(Complete)	2	Each	\$5,800.00	\$11,600.00	
173	Junction Box (10'x6')(Complete)	2	Each	\$10,000.00	\$20,000.00	
174	Modification of Structure (Curb Inlet)	2	Each	\$2,000.00	\$4,000.00	
175	Slope Drain (Concrete)	31	Lin. Ft.	\$70.00	\$2,170.00	
176	Slope Drain (Stone)	112	Lin. Ft.	\$50.00	\$5,602.50	
177	RipRap (Light 100 Lb.)(24" Thick)	68	Sq. Yd.	\$60.00	\$4,080.00	
178	RipRap (Light 200 Lb.)(36" Thick)	308	Sq. Yd.	\$70.00	\$21,560.00	
179	RipRap (1/4 Ton)(36" Thick)	840	Sq. Yd.	\$75.00	\$63,000.00	
180	4" Pipe Underdrain (Type K)	49	Lin. Ft.	\$10.00	\$490.00	
181	6" Pipe Underdrain (Type H)	26603	Lin. Ft.	\$12.00	\$319,236.00	
182	6" Pipe Underdrain (Type K)	1117	Lin. Ft.	\$50.00	\$55,850.00	
183	Sanitary Sewer Encasement	55	Lin. Ft.	\$125.00	\$6,875.00	
184	Adjustment of Manholes	5	Each	\$1,500.00	\$7,500.00	
185	Fence (Barbed Wire)(Temporary)	2679	Lin. Ft.	\$4.50	\$12,055.50	
186	Handrail (Metal) (48")	417	Lin. Ft.	\$150.00	\$62,550.00	
187	Guardrail, Steel Plate (MGS)	1050	Lin. Ft.	\$52.00	\$54,600.00	
188	Guardrail End Terminal (MGS FLEAT) Alt #1	8	Each	\$2,800.00	\$22,400.00	
189	Guardrail End Terminal (MGS SRT) Alt #2	8	Each	\$0.00	\$0.00	
190	Traffic Signal Installation & Interconnect: (159th & Quivira)	1	Lump Sum	\$260,000.00	\$260,000.00	



ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park
 Project: Quivira - 159th to 179th TH-1665
 Project Number: 016-3165
 Date: 3/19/2019

	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST \$	COST \$	KDOT NON - PARTICIPATING
191	Street Lighting	1	Lump Sum	\$440,000.00	\$440,000.00	
192	Permanent Traffic Control Signs	968	Sq. Ft.	\$25.00	\$24,200.00	
193	1-3/4" x 1-3/4" Sign Posts	1290	Lin. Ft.	\$7.00	\$9,030.00	
194	2" x 2" Sign Post Anchors	428	Lin. Ft.	\$9.00	\$3,852.00	
195	2-1/4" x 2-1/4" Anchor Sleeves	267	Lin. Ft.	\$11.00	\$2,937.00	
196	Paver Anchor & Sleeve	27	Each	\$25.00	\$675.00	
197	Rectangular Rapid Flashing Beacon (RRFB) - (Bi-Directional)	6	Each	\$2,500.00	\$15,000.00	
198	White Tubular Delineators with White Reflective Stripes	21	Each	\$200.00	\$4,200.00	
199	Traffic Control	1	Lump Sum	\$200,000.00	\$200,000.00	
200	4" White - Thermoplastic	308	Lin. Ft.	\$2.00	\$616.00	
201	4" Yellow - Thermoplastic	806	Lin. Ft.	\$2.00	\$1,612.00	
202	12" White - Thermoplastic	11	Lin. Ft.	\$4.00	\$44.00	
203	12" Yellow - Thermoplastic	104	Lin. Ft.	\$4.00	\$416.00	
204	White Turn Arrows - Preformed Thermoplastic	4	Each	\$250.00	\$1,000.00	
205	4" White - IMP	27947	Lin. Ft.	\$8.00	\$223,576.00	
206	4" Yellow - IMP	3315	Lin. Ft.	\$8.00	\$26,520.00	
207	6" White - IMP	1144	Lin. Ft.	\$10.00	\$11,440.00	
208	8" White - IMP	108	Lin. Ft.	\$12.00	\$1,296.00	
209	12" White - IMP	613	Lin. Ft.	\$20.00	\$12,260.00	
210	12" Yellow - IMP	153	Lin. Ft.	\$20.00	\$3,060.00	
211	24" White - PTP	98	Lin. Ft.	\$30.00	\$2,940.00	
212	24" x 36" White Yield Line - Contrast Patterned Cold Plastic	63	Each	\$100.00	\$6,300.00	
213	White Turn Arrows - Contrast Patterned Cold Plastic	23	Each	\$600.00	\$13,800.00	
214	Lawn Sprinkler System Modification (Summerwood)*	1	Lump Sum	\$73,145.00	\$73,145.00	Non Participating
215	Lawn Sprinkler System Modification (Mills Farm)*	1	Lump Sum	\$101,295.00	\$101,295.00	Non Participating
216	Lawn Sprinkler System Modification (Polo Fields)*	1	Lump Sum	\$35,510.00	\$35,510.00	Non Participating
217	Native Seed	1	Acre	\$5,000.00	\$4,400.00	
218	Seed (Fescue)	6	Acre	\$2,600.00	\$16,666.00	
219	Seed (Brome)	2	Acre	\$4,000.00	\$7,280.00	
220	Seed (Temporary)	28	Acre	\$700.00	\$19,600.00	
221	Sod (Fescue)	92739	Sq. Yd.	\$4.50	\$417,325.50	
222	Turf Reinforcement Mat (Class 2-Type G)	6372	Sq. Yd.	\$6.00	\$38,232.00	
223	Water Quality Control Manager	100	Each	\$300.00	\$30,000.00	
224	SWPPP Inspection (est.)	60	Each	\$200.00	\$12,000.00	
225	Biodegradable Log (9")	3922	Lin. Ft.	\$2.50	\$9,805.00	
226	Construction Entrance	371	Sq. Yd.	\$12.00	\$4,452.00	
227	Hydraulic Erosion Control (est.)	55	Ton	\$1,000.00	\$55,000.00	
228	Temporary Ditch Checks (Rock)	5	Each	\$600.00	\$3,000.00	
229	Temporary Diversion Berm	1767	Lin. Ft.	\$10.00	\$17,670.00	
230	Inlet Protection	74	Each	\$65.00	\$4,810.00	
231	Temporary Sediment Trap	4	Each	\$3,000.00	\$12,000.00	
232	Erosion Control Blanket (Class 1 - Type C)	1298	Sq. Yd.	\$5.00	\$6,490.00	
233	Silt Fence	29370	Lin. Ft.	\$1.00	\$29,370.00	
234	Topsoil	22809	Cu. Yd.	\$12.00	\$273,708.00	
235	Contractor Construction Staking	1	Lump Sum	\$175,000.00	\$175,000.00	
236	Land Corner Monument Box	5	Each	\$1,500.00	\$7,500.00	
237	Benchmark Monument (Johnson County)	3	Each	\$1,500.00	\$4,500.00	
238	Gauging Station*	1	Lump Sum	\$20,000.00	\$20,000.00	Non Participating
SUBTOTAL ROAD AND BRIDGE ITEMS					\$19,087,985.12	
WATERLINE WORK						
239	Waterline Mobilization*	1	Lump Sum	\$50,000.00	\$50,000.00	Non Participating
240	Ductile Iron Pipe (36")*	2148	Lin. Ft.	\$432.00	\$927,936.00	Non Participating
241	Ductile Iron Pipe (24")*	1542	Lin. Ft.	\$288.00	\$444,096.00	Non Participating
242	Ductile Iron Pipe (12")*	148	Lin. Ft.	\$120.00	\$17,760.00	Non Participating
243	PVC Pipe (16")*	432	Lin. Ft.	\$160.00	\$69,120.00	Non Participating
244	PVC Pipe (12")*	2593	Lin. Ft.	\$120.00	\$311,160.00	Non Participating
245	PVC Pipe (8")*	60	Lin. Ft.	\$80.00	\$4,800.00	Non Participating
246	HDPE Pipe (12")*	440	Lin. Ft.	\$120.00	\$52,800.00	Non Participating
247	Butterfly Valve (36")*	2	Each	\$13,000.00	\$26,000.00	Non Participating
248	Gate Valve (24")*	1	Each	\$9,000.00	\$9,000.00	Non Participating
249	Gate Valve (16")*	1	Each	\$7,500.00	\$7,500.00	Non Participating
250	Gate Valve (12")*	10	Each	\$3,000.00	\$30,000.00	Non Participating
251	Gate Valve (8")*	2	Each	\$1,500.00	\$3,000.00	Non Participating
252	Hydrant Installation - Tee*	4	Each	\$5,000.00	\$20,000.00	Non Participating
253	Hydrant Installation - Tap*	1	Each	\$5,500.00	\$5,500.00	Non Participating



ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park
Project: Quivira - 159th to 179th TH-1665
Project Number: 016.3165
Date: 3/19/2019

	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST \$	COST \$	KDOT NON-PARTICIPATING
254	2" Combination Air Valve and 6' Diameter Precast Conc. Vault with M	3	Each	\$15,000.00	\$45,000.00	Non Participating
255	2" Combination Air Valve and 8' Diameter Precast Conc. Vault with M	2	Each	\$20,000.00	\$40,000.00	Non Participating
256	Steel Encasement Pipe (48")*	320	Lin. Ft.	\$480.00	\$153,600.00	Non Participating
257	Steel Encasement Pipe (36")*	220	Lin. Ft.	\$360.00	\$79,200.00	Non Participating
258	Steel Encasement Pipe (24")*	200	Lin. Ft.	\$240.00	\$48,000.00	Non Participating
259	Steel Encasement Pipe (20")*	70	Lin. Ft.	\$200.00	\$14,000.00	Non Participating
260	Connection to Existing 24" Main near 23+95*	1	Lump Sum	\$15,000.00	\$15,000.00	Non Participating
261	Connection to Existing 24" Main near 27+25*	1	Lump Sum	\$15,000.00	\$15,000.00	Non Participating
262	Connection to Existing 12" Main near 31+75*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
263	Connection to Existing 8" Main near 31+75*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
264	Connection to Existing 24" Main near 34+75*	1	Lump Sum	\$15,000.00	\$15,000.00	Non Participating
265	Connection to Existing 24" Main near 37+00*	1	Lump Sum	\$15,000.00	\$15,000.00	Non Participating
266	Connection to Existing 8" Main near 38+00*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
267	Connection to Existing 24" Main near 40+25*	1	Lump Sum	\$15,000.00	\$15,000.00	Non Participating
268	Connection to Existing 4" Main near 47+50*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
269	Connection to Existing 8" Main near 47+75*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
270	Connection to Existing 36" Main near 48+75*	1	Lump Sum	\$20,000.00	\$20,000.00	Non Participating
271	Connection to Existing 36" Main near 54+00*	1	Lump Sum	\$20,000.00	\$20,000.00	Non Participating
272	Connection to Existing 12" Main near 82+60*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
273	Connection to Existing 12" Main near 84+00*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
274	Connection to Existing 36" Main near 89+00*	1	Lump Sum	\$20,000.00	\$20,000.00	Non Participating
275	Connection to Existing 16" Main near 91+00*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
276	Connection to Existing 12" Main near 91+00*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
277	Connection to Existing 12" Main near 95+50*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
278	Connection to Existing 12" Main near 99+75*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
279	Connection to Existing 36" Main near 102+25*	1	Lump Sum	\$20,000.00	\$20,000.00	Non Participating
280	Connection to Existing 12" Main near 105+75*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
281	Connection to Existing 12" Main near 117+25*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
282	Connection to Existing 12" Main near 118+00*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
283	Connection to Existing 12" Main near 119+25*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
284	Connection to Existing 12" Main near 119+75*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
285	Connection to Existing 12" Main near 122+00*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
286	Connection to Existing 12" Main near 122+05*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
287	Connection to Existing 12" Main near 122+75*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
288	Connection to Existing 12" Main near 123+00*	1	Lump Sum	\$1,400.00	\$1,400.00	Non Participating
289	Service Line Changeover for 11830 Quivira*	1	Each	\$2,500.00	\$2,500.00	Non Participating
290	Service Line Changeover for 17555 Quivira *	1	Each	\$2,500.00	\$2,500.00	Non Participating
291	Service Line Changeover and Meter Relocation near 112+00*	1	Each	\$2,500.00	\$2,500.00	Non Participating
292	Cathodic Protection*	1	Lump Sum	\$30,000.00	\$30,000.00	Non Participating
SUBTOTAL WATERLINE ITEMS					\$2,578,972.00	

OPINION OF PROBABLE COST (2019 DOLLARS)

\$21,666,957.12



CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 2

Project Location: 179th Street, Metcalf Avenue to US-69

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Kyle Dieckmann, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 4600 Year (2012) Accident History (Prior 3 Years): 15

Project Type: Capacity (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation,
Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Two-lane unimproved section line road 24 foot wide with no curb and gutter, storm sewers, street lights, or sidewalks.

Detailed Description of Project Scope:

Reconstruct to a two-lane roadway with paved shoulders, turn lanes and improved roadside geometry.

Project Cost Information *

1.	Design cost:	\$200,000
2.	Right-of-way acquisition cost:	\$600,000
3.	Utility relocation cost:	\$300,000
4.	Construction cost:	\$1,408,617
5.	Construction engineering cost:	\$95,200
	Total project cost:	\$2,603,817

Calculation of CARS Eligible costs:

A.	Sum item # 4 & 5 above	(+)	\$1,503,817
B.	Federal Aid Participation	(-)	_____
C.	State Aid Participation	(-)	_____
D.	Other Non-local Participation	(-)	_____
	Subtotal (CARS eligible costs)		\$1,503,817
	CARS Funding request		\$751,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

179th Street (US-69 to Metcalf) City of Overland Park, Kansas KDOT PROJECT NO. (PRELIMINARY)							
Bid Item No.	Item Description	Unit	Approx. Quantity	Unit Price	Total	Unit Price	Total
Roadway Items							
1	Force Account (Set)	Lump Sum	1	\$ 40,000.00	\$ 40,000.00		
2	Maintenance Bond	Lump Sum	1	\$ 10,000.00	\$ 10,000.00		
3	Clearing & Grubbing	Lump Sum	1	\$ 65,000.00	\$ 65,000.00		
4	Removal of Existing Structures	Lump Sum	1	\$ 35,000.00	\$ 35,000.00		
5	Unclassified Excavation	Cu. Yd.	12,328	\$ 19.00	\$ 234,232.00		
6	Compaction of Earthwork (All Types)	Cu. Yd.	8,565	\$ 5.00	\$ 42,825.00		
7	Topsoil	Cu. Yd.	500	\$ 25.00	\$ 12,500.00		
8	Asphaltic Concrete Intermediate Course	Ton	3,766	\$ 80.00	\$ 301,280.00		
9	Asphaltic Concrete Surface Course	Ton	929	\$ 90.00	\$ 83,610.00		
10	Temporary Surfacing Material (AB-3 O.P. Modified) (est)	Ton	150	\$ 25.00	\$ 3,750.00		
11	Fly Ash	Ton	516	\$ 58.00	\$ 29,928.00		
12	Manipulation for Fly Ash Treated Subgrade (8")	Sq. Yd.	8,673	\$ 3.50	\$ 30,355.50		
13	Aggregate Base Course (OP Special) (6")	Sq. Yd.	8,673	\$ 8.00	\$ 69,384.00		
14	Aggregate Base (AB-3 O.P. Modified - 7" Drives)	Sq. Yd.	428	\$ 11.00	\$ 4,708.00		
15	Asphalt Driveway (Intermediate Course)	Ton	93	\$ 160.00	\$ 14,880.00		
16	Curb & Gutter, Combined (Type B)	Lin. Feet	25	\$ 40.00	\$ 1,000.00		
17	Concrete Entrance Pavement (8")	Sq. Yd.	250	\$ 85.00	\$ 21,250.00		
18	18" RCP Class III Storm Sewer	Lin. Feet	54	\$ 100.00	\$ 5,400.00		
19	24" RCP Class III Storm Sewer	Lin. Feet	40	\$ 115.00	\$ 4,600.00		
20	36" RCP Class III Storm Sewer	Lin. Feet	69	\$ 150.00	\$ 10,350.00		
21	54" RCP Class III Storm Sewer	Lin. Feet	172	\$ 250.00	\$ 43,000.00		
22	18" End Section (RC Class III)	Each	2	\$ 1,000.00	\$ 2,000.00		
23	24" End Section (RC Class III)	Each	2	\$ 2,000.00	\$ 4,000.00		
24	36" End Section (RC Class III)	Each	2	\$ 2,500.00	\$ 5,000.00		
25	54" End Section (RC Class III)	Each	2	\$ 3,500.00	\$ 7,000.00		
26	36" 7d30' Bends (RC Class III)	Each	2	\$ 3,500.00	\$ 7,000.00		
27	Pipe Underdrain (est.)	Lin. Feet	2,000	\$ 25.00	\$ 50,000.00		
28	Pipe Underdrain Concrete Outlet Flume (est.)	Each	4	\$ 600.00	\$ 2,400.00		
29	Riprap (KDOT Light 18")	Sq. Yd.	40	\$ 70.00	\$ 2,800.00		
30	Riprap (KDOT 1/4 Ton)	Sq. Yd.	73	\$ 100.00	\$ 7,300.00		
31	Permanent Traffic Control Signing	Lump Sum	1	\$ 5,000.00	\$ 5,000.00		
32	Traffic Control	Lump Sum	1	\$ 10,000.00	\$ 10,000.00		
33	Permanent Pavement Marking	Lump Sum	1	\$ 3,500.00	\$ 3,500.00		
34	Temporary Project Water Pollution Control	Lump Sum	1	\$ 28,000.00	\$ 28,000.00		
35	Turf Reinforced Mat	Sq. Yd.	80	\$ 22.00	\$ 1,760.00		
36	Fescue Seed	Acre	2	\$ 1,400.00	\$ 2,800.00		
37	Fescue Sod	Sq. Yd.	16,914	\$ 5.00	\$ 84,570.00		
38	Orange Construction Fence (Temporary)(est.)	Lin. Feet	500	\$ 12.00	\$ 6,000.00		
39	48" Barbed Wire Fence (Permanent)	Lin. Feet	2,057	\$ 15.00	\$ 30,855.00		
40	26' Wide Metal Double Swing Gate	Each	1	\$ 3,500.00	\$ 3,500.00		
41	Contractor Construction Staking	Lump Sum	1	\$ 15,000.00	\$ 15,000.00		
42	Contingencies (5%)	Lump Sum	1	\$ 67,080.00	\$ 67,080.00		
Subtotal					\$ 1,408,617.50		
Grand Total					\$ 1,408,617.50		



CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 3

Project Location: Nall Avenue, 83rd Street to 95th Street, Overlay

Joint Project With: Prairie Village Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 19200 Year (2018) Accident History (Prior 3 Years): 65

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$1,084,000
5. Construction engineering cost:	_____
Total project cost:	\$1,084,000

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$1,084,000
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$1,084,000
CARS Funding request		\$542,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: <u>Prairie Village</u>	Funding: <u>\$200,540 (37%)</u>
City Name: _____	Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

NALL AVENUE, 83RD STREET TO 95TH STREET

ENGINEER'S ESTIMATE

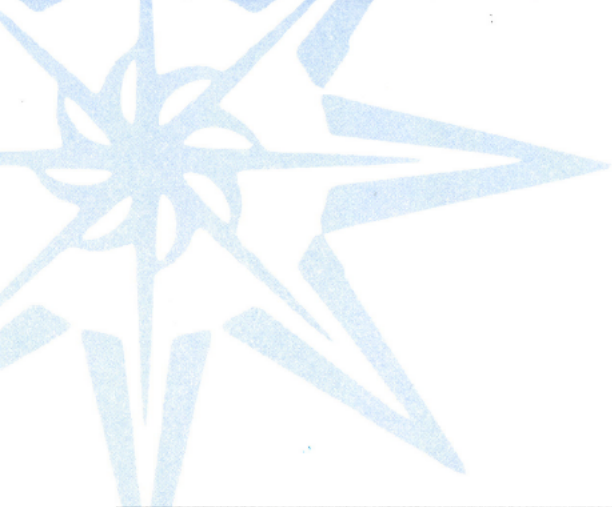
Total Construction Cost \$1,084,000.00



seal



**JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR**



THE CITY OF PRAIRIE VILLAGE

STAR OF KANSAS

Joint Participation CARS Project

To:
Kent Lage
Urban Services Division
Johnson County Public Works
1800 W Hwy 56
Olathe, KS 66061

Date: 3/21/2019

RE:
2020-2024 CARS Program

Project Year	Project Name	Joint Participation with:
2020	Nall Avenue, 83 rd to 95 th	Overland Park (63%)
		Prairie Village (37%)

The City of Prairie Village acknowledges the cooperative effort between municipalities for the above listed project.

The City of Overland Park is administering this project and the Form A is attached.

Melissa Prenger
Sr. Project Manager
Prairie Village Public Works Department
913-385-4655 | mprenger@pvkansas.com

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Providing the right service, at the right time, at the right cost.

3535 SOMERSET DRIVE * PRAIRIE VILLAGE, KANSAS 66208 * www.pvkansas.com * publicworks@pvkansas.com
PUBLIC WORKS: 913/381-6464 * FAX: 913/642-0117 * SERVICE REQUEST LINE: 913/385-4647

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 4

Project Location: Metcalf Avenue, 75th Street to 83rd Street, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 35100 Year (2018) Accident History (Prior 3 Years): 304

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$543,420
5. Construction engineering cost:	_____
Total project cost:	\$543,420

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$543,420
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$543,420
CARS Funding request		\$271,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

METCALF AVENUE, 75TH STREET TO 83RD STREET

ENGINEER'S ESTIMATE

Total Construction Cost \$543,420.00

seal



JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 5

Project Location: Metcalf Avenue, 83rd Street to 91st Street, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 34600 Year (2018) Accident History (Prior 3 Years): 141

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation,
Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1.	Design cost:	
2.	Right-of-way acquisition cost:	
3.	Utility relocation cost:	
4.	Construction cost:	\$1,242,600
5.	Construction engineering cost:	
	Total project cost:	\$1,242,600

Calculation of CARS Eligible costs:

A.	Sum item # 4 & 5 above	(+)	\$1,242,600
B.	Federal Aid Participation	(-)	
C.	State Aid Participation	(-)	
D.	Other Non-local Participation	(-)	
	Subtotal (CARS eligible costs)		\$1,242,600
	CARS Funding request		\$621,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

METCALF AVENUE, 83RD STREET TO 91ST STREET

ENGINEER'S ESTIMATE

Total Construction Cost \$1,242,600.00

seal



**JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR**

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 6

Project Location: College Boulevard, Pflumm Road to Quivira Road, Overlay

Joint Project With: Lenexa Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 25800 Year (2018) Accident History (Prior 3 Years): 72

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$1,108,400
5. Construction engineering cost:	_____
Total project cost:	\$1,108,400

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$1,108,400
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$1,108,400
CARS Funding request		\$554,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: <u>Lenexa</u>	Funding: <u>\$69,250 (12.5%)</u>
City Name: _____	Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

COLLEGE BOULEVARD, PFLUMM ROAD TO QUIVIRA ROAD

ENGINEER'S ESTIMATE

Total Construction Cost \$1,108,400.00

seal
.....

.....KANSAS.....
PROFESSIONAL ENGINEER
.....

**JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR**



March 22, 2019

Jason Hussey, P.E.
City of Overland Park
8500 Santa Fe Drive
Overland Park, KS 66212

RE: Participation Acknowledgement
County Assistance Road System (CARS)

Dear Mr. Hussey:

Please accept this letter as the City of Lenexa's acknowledgement for participating in the CARS project for College Boulevard (Pflumm Road to Quivira Road) mill & overlay. The City of Overland Park will be administrating the project and the City of Lenexa will have funding participation estimated to be \$69,250 (12.5%).

If you have any questions concerning our submittal, please do not hesitate to contact me at (913) 477-7661.

Sincerely,

CITY OF LENEXA

Tim Green, P. E.
Deputy Director/City Engineer

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 7

Project Location: College Boulevard, Quivira Road to Switzer Road, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 27800 Year (2018) Accident History (Prior 3 Years): 75

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$596,800
5. Construction engineering cost:	_____
Total project cost:	\$596,800

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$596,800
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$596,800
CARS Funding request		\$298,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

COLLEGE BOULEVARD, QUIVIRA ROAD TO SWITZER ROAD

ENGINEER'S ESTIMATE

Total Construction Cost \$596,800.00

seal



**JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR**

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 8

Project Location: College Boulevard, Benson to Metcalf Avenue, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 21200 Year (2013) Accident History (Prior 3 Years): 85

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation,
Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$982,800
5. Construction engineering cost:	_____
Total project cost:	\$982,800

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$982,800
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$982,800
CARS Funding request		\$491,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

COLLEGE BOULEVARD, BENSON TO METCALF AVENUE

ENGINEER'S ESTIMATE

Total Construction Cost \$982,800.00

seal
.....



**JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR**

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 9

Project Location: College Boulevard, Metcalf Avenue to Nall Avenue, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 17100 Year (2013) Accident History (Prior 3 Years): 38

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____	
2. Right-of-way acquisition cost:	_____	
3. Utility relocation cost:	_____	
4. Construction cost:	_____	\$1,115,200
5. Construction engineering cost:	_____	
Total project cost:	_____	\$1,115,200

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$1,115,200
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$1,115,200
CARS Funding request		\$557,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

COLLEGE BOULEVARD, METCALF AVENUE TO NALL AVENUE

ENGINEER'S ESTIMATE

Total Construction Cost \$1,115,200.00

seal



JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 10

Project Location: 151st Street, Switzer Road to Antioch Road, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2020 Completion Date (mo/yr): 10/2020

Current Average Daily Traffic (ADT): 24000 Year (2018) Accident History (Prior 3 Years): 54

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation,
Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$520,000
5. Construction engineering cost:	_____
Total project cost:	\$520,000

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$520,000
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$520,000
CARS Funding request		\$260,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

151ST STREET, SWITZER ROAD TO ANTIOCH ROAD

ENGINEER'S ESTIMATE

Total Construction Cost \$520,000.00

seal



JASON HUSSEY, P.E.
CIVIL ENGINEER, SENIOR

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 11

Project Location: Antioch Road and 124th Street, Traffic Signal

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Guy Alon, Civil Engineer, Senior

Estimated Project Schedule: Start Date (mo/yr): 02/2020 Completion Date (mo/yr): 12/2020

Current Average Daily Traffic (ADT): 26300 Year (2018) Accident History (Prior 3 Years): 9

Project Type: System Management (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: C

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

The intersection of 124th Street and Antioch is currently a T-intersection with stop control on 124th Street. Antioch is a four-lane divided thoroughfare to both the north and south with dedicated left turn lanes. 124th Street is a two-lane collector to the west with a dedicated left turn lane. The posted speed limits are 45 mph on Antioch and 30 mph on 124th Street. A new driveway will be built as the east approach (WB) of this intersection in 2019 and a new city fleet maintenance facility will be constructed and opened in 2020. Nearby traffic signals are located at 123rd Street (1350' to the north) and 125th Street (1180' to the south).

Detailed Description of Project Scope:

This project will construct a new traffic signal at 124th Street and Antioch Road. This will include galvanized steel poles and mast arms, standard signal heads including flashing yellow arrows for left turns, underground conduit and cables, a 2070 signal controller and cabinet, vehicular detection such as radar, pedestrian push buttons, emergency vehicle pre-emption (Opticom), a traffic monitoring camera and removal of existing traffic control devices that would be in conflict (STOP signs, etc.). The signal will be connected to the city's fiber optic network to allow for remote communications and timing adjustments.

Project Cost Information *

1.	Design cost:	\$50,000
2.	Right-of-way acquisition cost:	_____
3.	Utility relocation cost:	_____
4.	Construction cost:	\$250,000
5.	Construction engineering cost:	\$10,000
	Total project cost:	\$310,000

Calculation of CARS Eligible costs:

A.	Sum item # 4 & 5 above	(+)	\$260,000
B.	Federal Aid Participation	(-)	_____
C.	State Aid Participation	(-)	_____
D.	Other Non-local Participation	(-)	_____
	Subtotal (CARS eligible costs)		\$260,000
	CARS Funding request		\$130,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

**CITY OF OVERLAND PARK
2020 CARS SUBMITTAL**

ANTIOCH ROAD AND 124TH STREET, TRAFFIC SIGNAL

ENGINEER'S ESTIMATE

Total Construction Cost \$250,000.00



seal



**GUY ALON P.E.
CIVIL ENGINEER, SENIOR**

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 1

Project Location: 167th Street Bridges over Coffee Creek and Coffee Creek East Tributary

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Kyle Dieckmann, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2021 Completion Date (mo/yr): 10/2021

Current Average Daily Traffic (ADT): 0 Year (2019) Accident History (Prior 3 Years): 0

Project Type: New Bridges (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation,
Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): N/A Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Bridges do not currently exist.

Detailed Description of Project Scope:

Construct new prestressed concrete beam bridges at two locations along future 167th Street between Quivira Road and Switzer Road. These bridges will span Coffee Creek and Coffee Creek East Tributary.

Project Cost Information *

1.	Design cost:	\$900,000
2.	Right-of-way acquisition cost:	\$100,000
3.	Utility relocation cost:	\$105,000
4.	Construction cost:	\$7,540,000
5.	Construction engineering cost:	\$455,000
	Total project cost:	\$9,100,000

Calculation of CARS Eligible costs:

A.	Sum item # 4 & 5 above	(+)	\$7,995,000
B.	Federal Aid Participation	(-)	_____
C.	State Aid Participation	(-)	_____
D.	Other Non-local Participation	(-)	_____
	Subtotal (CARS eligible costs)		\$7,995,000
	CARS Funding request		\$3,997,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 2

Project Location: Mission Road, 95th Street to 103rd Street, Overlay

Joint Project With: Leawood Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2021 Completion Date (mo/yr): 10/2021

Current Average Daily Traffic (ADT): 19200 Year (2018) Accident History (Prior 3 Years): 41

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$775,600
5. Construction engineering cost:	_____
Total project cost:	\$775,600

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$775,600
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$775,600
CARS Funding request		\$387,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: <u>Leawood</u>	Funding: <u>\$96,750 (25%)</u>
City Name: _____	Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 3

Project Location: Switzer Road, 135th Street to 151st Street, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2021 Completion Date (mo/yr): 10/2021

Current Average Daily Traffic (ADT): 12700 Year (2018) Accident History (Prior 3 Years): 49

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$2,000,000
5. Construction engineering cost:	_____
Total project cost:	\$2,000,000

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$2,000,000
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$2,000,000
CARS Funding request		\$1,000,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 4

Project Location: 143rd Street, Quivira Road to Antioch Road, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2021 Completion Date (mo/yr): 10/2021

Current Average Daily Traffic (ADT): 15900 Year (2015) Accident History (Prior 3 Years): 44

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$1,864,200
5. Construction engineering cost:	_____
Total project cost:	\$1,864,200

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$1,864,200
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$1,864,200
CARS Funding request		\$932,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 5

Project Location: 103rd Street, Goddard to Mastin, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2021 Completion Date (mo/yr): 10/2021

Current Average Daily Traffic (ADT): 19200 Year (2014) Accident History (Prior 3 Years): 36

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$323,500
5. Construction engineering cost:	_____
Total project cost:	\$323,500

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$323,500
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$323,500
CARS Funding request		\$161,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 6

Project Location: 127th Street, Metcalf Avenue to Nall Avenue, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2021 Completion Date (mo/yr): 10/2021

Current Average Daily Traffic (ADT): 7700 Year (2013) Accident History (Prior 3 Years): 12

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation,
Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$937,600
5. Construction engineering cost:	_____
Total project cost:	\$937,600

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$937,600
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$937,600
CARS Funding request		\$468,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 1

Project Location: Switzer Road, 159th Street to 167th Street

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Kyle Dieckmann, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2022 Completion Date (mo/yr): 10/2022

Current Average Daily Traffic (ADT): 5100 Year (2018) Accident History (Prior 3 Years): 13

Project Type: Capacity / System Management (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: C

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Two-lane unimproved section line road 24 foot wide with no curb and gutter, storm sewers, street lights, or sidewalks.

Detailed Description of Project Scope:

Reconstruct Switzer Road from just south of 151st Street to 167th Street from and unimproved 2-lane roadway to a 2-lane thoroughfare with turn lanes, shoulders, sidewalks and roundabout at 167th Street. The project also includes construction of storm sewers, a multi-use trail, restoration, landscaping and other appurtenances.

Project Cost Information *

1. Design cost:	\$1,000,000
2. Right-of-way acquisition cost:	\$1,200,000
3. Utility relocation cost:	\$1,800,000
4. Construction cost:	\$8,850,000
5. Construction engineering cost:	\$477,500
Total project cost:	\$13,327,500

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$9,327,500
B. Federal Aid Participation	(-)	\$5,000,000
C. State Aid Participation	(-)	
D. Other Non-local Participation	(-)	
Subtotal (CARS eligible costs)		\$4,327,500
CARS Funding request		\$2,163,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 2

Project Location: Antioch Road, 108th Terrace to 119th Street, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2022 Completion Date (mo/yr): 10/2022

Current Average Daily Traffic (ADT): 25500 Year (2014) Accident History (Prior 3 Years): 78

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____	
2. Right-of-way acquisition cost:	_____	
3. Utility relocation cost:	_____	
4. Construction cost:	_____	\$1,733,050
5. Construction engineering cost:	_____	
Total project cost:	_____	\$1,733,050

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$1,733,050
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$1,733,050
CARS Funding request		\$866,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 3

Project Location: Antioch Road, 151st Street to 159th Street, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2022 Completion Date (mo/yr): 10/2022

Current Average Daily Traffic (ADT): 8100 Year (2018) Accident History (Prior 3 Years): 18

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$957,200
5. Construction engineering cost:	_____
Total project cost:	\$957,200

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$957,200
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$957,200
CARS Funding request		\$478,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 4

Project Location: Roe Avenue, 119th Street to Tomahawk Creek Bridge, Overlay

Joint Project With: Leawood Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2022 Completion Date (mo/yr): 10/2022

Current Average Daily Traffic (ADT): 16100 Year (2015) Accident History (Prior 3 Years): 13

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$400,660
5. Construction engineering cost:	_____
Total project cost:	\$400,660

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$400,660
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$400,660
CARS Funding request		\$200,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: <u>Leawood</u>	Funding: <u>\$36,000 (18%)</u>
City Name: _____	Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 1

Project Location: 167th Street, Switzer Road to Antioch Road

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Kyle Dieckmann, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2023 Completion Date (mo/yr): 10/2023

Current Average Daily Traffic (ADT): 3100 Year (2018) Accident History (Prior 3 Years): 9

Project Type: Capacity (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation,
Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Two-lane unimproved section line road 24 foot wide with no curb and gutter, storm sewers, street lights, or sidewalks.

Detailed Description of Project Scope:

Reconstruct 167th Street from just east of Switzer Road to Antioch Road from and unimproved 2-lane roadway to a 2-lane thoroughfare with turn lanes and shoulders. The project also includes construction of storm sewers, a multi-use trail, restoration, landscaping and other appurtenances.

Project Cost Information *

1. Design cost:	\$1,050,000
2. Right-of-way acquisition cost:	\$1,100,000
3. Utility relocation cost:	\$1,100,000
4. Construction cost:	\$8,260,000
5. Construction engineering cost:	\$380,000
Total project cost:	\$11,890,000

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$8,640,000
B. Federal Aid Participation	(-)	
C. State Aid Participation	(-)	
D. Other Non-local Participation	(-)	
Subtotal (CARS eligible costs)		\$8,640,000
CARS Funding request		\$4,320,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 2

Project Location: 103rd Street, Nall Avenue to Mission Road, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2023 Completion Date (mo/yr): 10/2023

Current Average Daily Traffic (ADT): 16700 Year (2018) Accident History (Prior 3 Years): 30

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$683,700
5. Construction engineering cost:	_____
Total project cost:	\$683,700

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$683,700
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$683,700
CARS Funding request		\$341,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 3

Project Location: 75th Street, Frontage Road to Metcalf Avenue, Overlay

Joint Project With: Merriam Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2023 Completion Date (mo/yr): 10/2023

Current Average Daily Traffic (ADT): 21400 Year (2018) Accident History (Prior 3 Years): 225

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1.	Design cost:	
2.	Right-of-way acquisition cost:	
3.	Utility relocation cost:	
4.	Construction cost:	\$1,241,000
5.	Construction engineering cost:	
	Total project cost:	\$1,241,000

Calculation of CARS Eligible costs:

A.	Sum item # 4 & 5 above	(+)	\$1,241,000
B.	Federal Aid Participation	(-)	
C.	State Aid Participation	(-)	
D.	Other Non-local Participation	(-)	
	Subtotal (CARS eligible costs)		\$1,241,000
	CARS Funding request		\$620,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: <u>Merriam</u>	Funding: <u>\$99,200 (16%)</u>
City Name: _____	Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 1

Project Location: College Boulevard Bridge over Indian Creek

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Kyle Dieckmann, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2024 Completion Date (mo/yr): 10/2024

Current Average Daily Traffic (ADT): 24500 Year (2012) Accident History (Prior 3 Years): 0

Project Type: Bridge Replacement (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): 47 Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

The existing bridge, built in 1976, is a 3 span prestressed double tee beam bridge approximately 122' wide and 200' long. The bridge carries 8-lanes of traffic, which includes two dedicated left turn lanes, and 6' sidewalks on each side separated by barrier curb with short barrier rail. 2018 annual inspection has shown the bridge as structurally deficient with a sufficiency rating of 47 due to deteriorating conditions of the abutments and bridge deck.

Detailed Description of Project Scope:

Construct new prestressed concrete beam bridge over Indian Creek.

Project Cost Information *

1.	Design cost:	\$830,000
2.	Right-of-way acquisition cost:	\$110,000
3.	Utility relocation cost:	\$110,000
4.	Construction cost:	\$6,220,000
5.	Construction engineering cost:	\$870,000
	Total project cost:	\$8,140,000

Calculation of CARS Eligible costs:

A.	Sum item # 4 & 5 above	(+)	\$7,090,000
B.	Federal Aid Participation	(-)	_____
C.	State Aid Participation	(-)	_____
D.	Other Non-local Participation	(-)	_____
	Subtotal (CARS eligible costs)		\$7,090,000
	CARS Funding request		\$3,545,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 2

Project Location: Quivira Road, College Boulevard to 109th Street, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2024 Completion Date (mo/yr): 10/2024

Current Average Daily Traffic (ADT): 44900 Year (2014) Accident History (Prior 3 Years): 96

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____
2. Right-of-way acquisition cost:	_____
3. Utility relocation cost:	_____
4. Construction cost:	\$475,180
5. Construction engineering cost:	_____
Total project cost:	\$475,180

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	\$475,180
B. Federal Aid Participation	(-)	_____
C. State Aid Participation	(-)	_____
D. Other Non-local Participation	(-)	_____
Subtotal (CARS eligible costs)		\$475,180
CARS Funding request		\$237,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

CARS Form A
2020-2024 Project Application for the
County Assistance Road System (CARS) Program

Submit one form for each project.

Return by March 29, 2019

Submitting City: Overland Park City Priority Ranking: 3

Project Location: 159th Street, Antioch Road to Metcalf Avenue, Overlay

Joint Project With: _____ Administrating City: Overland Park

Contact Name & Title: Wayne Gudenkauf, Supervisory Civil Engineer

Estimated Project Schedule: Start Date (mo/yr): 03/2024 Completion Date (mo/yr): 10/2024

Current Average Daily Traffic (ADT): 23000 Year (2018) Accident History (Prior 3 Years): 68

Project Type: Major Maintenance (Capacity, Major Maintenance, Bridge Replacement, Bridge Rehabilitation, Route Enhancement, or System Management)

Current Level of Service (LOS) [System Management Projects Only]: _____

Sufficiency Rating (Bridge Projects): _____ Pavement Condition: Good Fair Poor

Detailed Description of Existing Facility:

Pavement surface on thoroughfares has deteriorated to the point where cold milling and overlay is necessary along with curb repair as required.

Detailed Description of Project Scope:

Cold mill approximately 2 inches of surface asphalt and overlay with same. Install new pavement markings. Install new sidewalk ramps per ADA as required. Repair or replace deteriorated curbs and gutters as required.

Project Cost Information *

1. Design cost:	_____	
2. Right-of-way acquisition cost:	_____	
3. Utility relocation cost:	_____	
4. Construction cost:	_____	\$1,028,000
5. Construction engineering cost:	_____	
Total project cost:	_____	\$1,028,000

Calculation of CARS Eligible costs:

A. Sum item # 4 & 5 above	(+)	_____	\$1,028,000
B. Federal Aid Participation	(-)	_____	
C. State Aid Participation	(-)	_____	
D. Other Non-local Participation	(-)	_____	
Subtotal (CARS eligible costs)		_____	\$1,028,000
CARS Funding request		_____	\$514,000

(Request cannot exceed 50% of the CARS eligible costs)

Funding participation by other cities:

City Name: _____ Funding: _____
 City Name: _____ Funding: _____

*Program policies require that a licensed professional engineer prepare and seal the 2020 project cost estimates.

Proposed 2020-2024 CARS

Construction Year

- 2020
- 2021
- 2022
- 2023
- 2024

- ① Number Next to Project Indicates First Priority
- Capacity Project
- Major Maintenance Project
- System Management
- ▲ Bridge

