

**DEPARTMENT OF TRANSPORTATION  
COMMISSION ORDER**

Division/Bureau/Office Planning, Programming and Modal Division  
Office of Systems Planning Order No. \_\_\_\_\_  
 Submitted by Debra Arp Phone No. 515-239-1681 Meeting Date January 8, 2019  
 Title Iowa's Clean Air Attainment Program Funding Recommendations

**DISCUSSION/BACKGROUND:**

Review of the current round of applications for funding from Iowa's Clean Air Attainment Program has been completed. The following funding recommendations will be presented.

Adaptive Traffic Signal Control System Expansion (West Des Moines)	\$ 328,320
Euclid/Douglas Avenue Crosstown (Route 50) - Year 2 (Des Moines Area Regional Transit Authority)	\$ 314,995
Smart Traffic Routing with Efficient and Effective Traffic Signals (STREETS) (Dubuque)	\$ 818,250
Traffic Signal Enhancements Project (Waukee)	\$1,075,000
U.S. 61 (Roosevelt Avenue) Traffic Signal Control Systems Upgrades and Fiber Network Improvements (Burlington)	\$ 760,587
West Ames Changes: New expansion route #12 Lilac & bus; added frequency #1 Red, #11 Cherry, #7 Purple (Ames Transit Agency)	\$ 702,848
 Total	 \$4,000,000

**PROPOSAL/ACTION RECOMMENDATION:**

It is recommended the Commission approve Iowa's Clean Air Attainment Program funding recommendations as listed.

<b>COMMISSION ACTION:</b>		Aye	Vote Nay	Pass
	Fehrman	_____	_____	_____
	Maher	_____	_____	_____
	Paulsen	_____	_____	_____
Moved by _____	Putney	_____	_____	_____
Seconded by _____	Rielly	_____	_____	_____
	Rose	_____	_____	_____
	Yanney	_____	_____	_____
_____ Division Director	_____ Legal	_____ State Director		



# Iowa's Clean Air Attainment Program **Funding Recommendation**



# Iowa's Clean Air Attainment Program

- Iowa's Clean Air Attainment Program (ICAAP) was created in 1994.
- Modeled after the federal Congestion Mitigation and Air Quality Improvement Program established in 1991.
- Available to cities, counties, public transit agencies, MPOs, RPAs, and state agencies. Private non-profit or for-profit entities when co-sponsored by an eligible public agency through an annual application program.
- Purpose is to award funds to projects with the highest potential for reducing transportation-related congestion and air pollution.

## **Project Evaluation Criteria**

- **Vehicle traffic flow improvements (25 points)**
- **Vehicle miles of travel (VMT) or single-occupant vehicle (SOV) reduction (25 points)**
- **Estimated vehicle emission reduction (20 points)**
- **Degree of transportation-related air pollution or traffic congestion (15 points)**
- **Project cost effectiveness relative to air quality benefits (30 points)**

# Available Funding and Application Summary

- **Available Funding:**
  - Iowa's Clean Air Attainment Program funds available: **\$4,000,000**
- **Application Summary:**
  - Total number of projects: **15**
  - Total project costs: **\$24,365,688**
  - Total amount requested: **\$8,136,289**

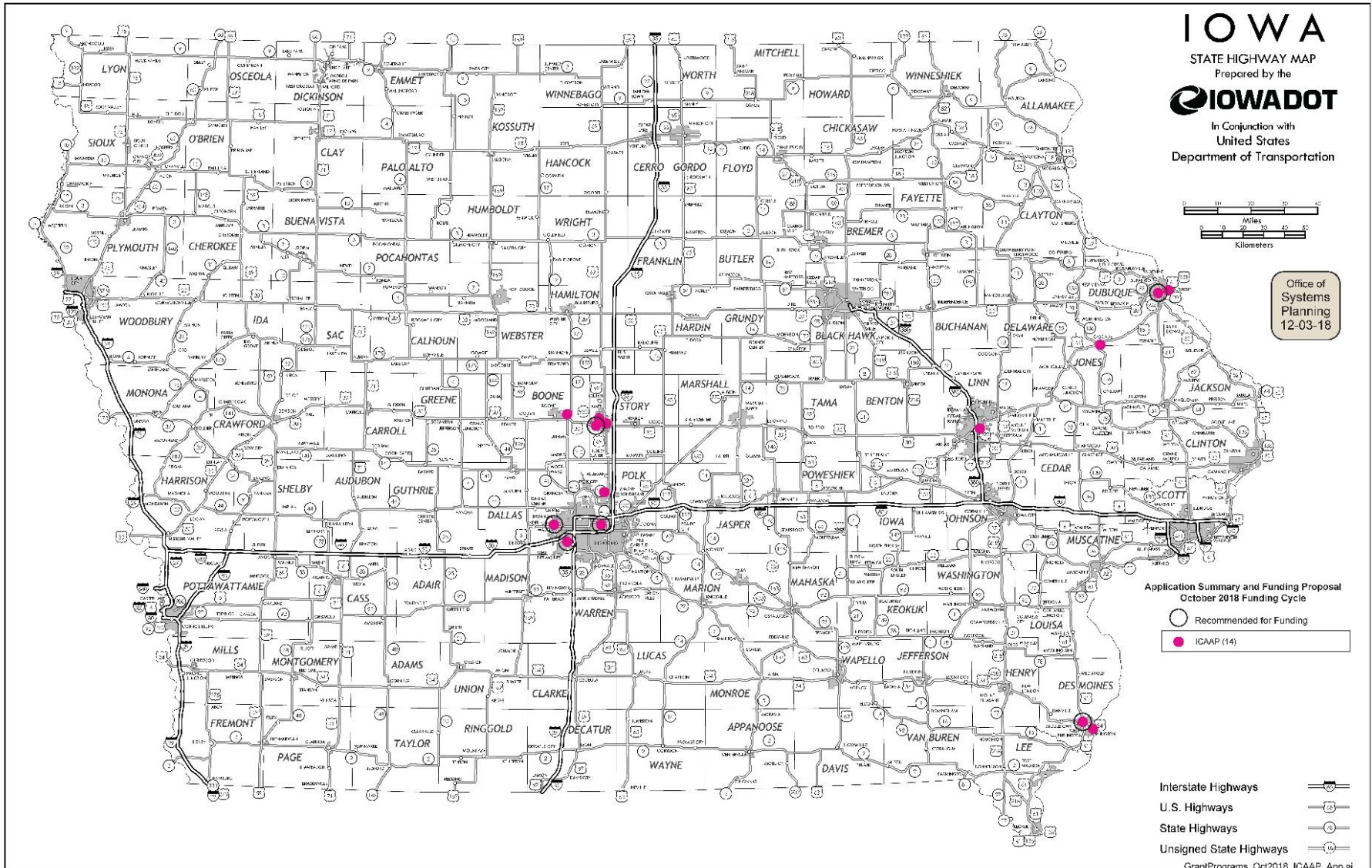
# List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<a href="#"><u>Adaptive Traffic Signal Control System Expansion</u></a>	West Des Moines	80.6	\$410,400	\$328,320 (80%)	\$328,320 (80%)
<a href="#"><u>Smart Traffic Routing with Efficient and Effective Traffic Signals (STREETS)</u></a>	Dubuque	80.4	\$3,366,250	\$818,250 (24%)	\$818,250 (24%)
<a href="#"><u>West Ames Changes: (New Expansion Route #12 Lilac &amp; Bus; Added frequency (#1 Red, #11 Cherry, #7 Purple)</u></a>	Ames Transit Agency	79.6	\$905,817	\$702,848 (78%)	\$702,848 (78%)

# List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<a href="#"><u>Euclid/Douglas Avenue Crosstown (Route 50) Year 2</u></a>	Des Moines Area Regional Transit Authority	74.2	\$393,744	\$314,995 (80%)	\$314,995 (80%)
<a href="#"><u>Traffic Signal Enhancements Project</u></a>	Waukee	71.8	\$1,344,000	\$1,075,000 (80%)	\$1,075,000 (80%)
<a href="#"><u>U.S. Highway 61 (Roosevelt Avenue) Traffic Signal Control Systems Upgrades and Fiber Network Improvements</u></a>	Burlington	70.6	\$1,232,000	\$985,600 (80%)	\$760,587 (62%)

# Map of Applications Received





# Projected Annual Benefits of Recommended Projects

- Reduction of Vehicle Hours of Travel: 522,910
- Reduction of Vehicle Miles of Travel: 4,623,090
- Improved Air Quality
  - Reduced CO, VOCs, & NOx Emissions: 329,742 lbs.



QUESTIONS?



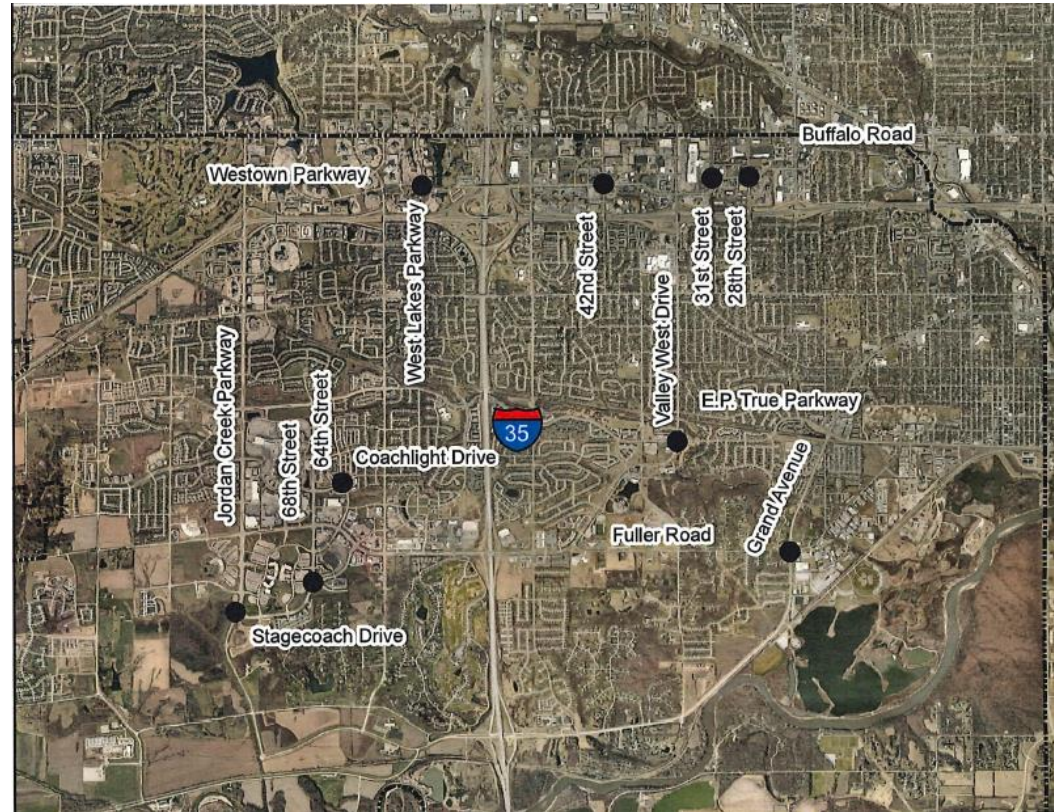
**Zac Bitting**  
Iowa's Clean Air Attainment program manager  
[Zachary.bitting@iowadot.us](mailto:Zachary.bitting@iowadot.us)

## Adaptive Traffic Signal Control System Expansion (West Des Moines)

Purchase adaptive signal control technology equipment for nine intersections on various corridors:

- 28<sup>th</sup> Street and Westtown Parkway
- 31<sup>st</sup> Street and Westtown Parkway
- 42<sup>nd</sup> Street and Westtown Parkway
- West Lakes and Westtown Parkway
- Valley West Drive and EP True Parkway
- Grand Avenue and Fuller Road
- S. 68<sup>th</sup> Street and Stagecoach Drive
- Jordan Creek Parkway and Stagecoach Drive
- S. 64<sup>th</sup> Street and Coachlight Drive

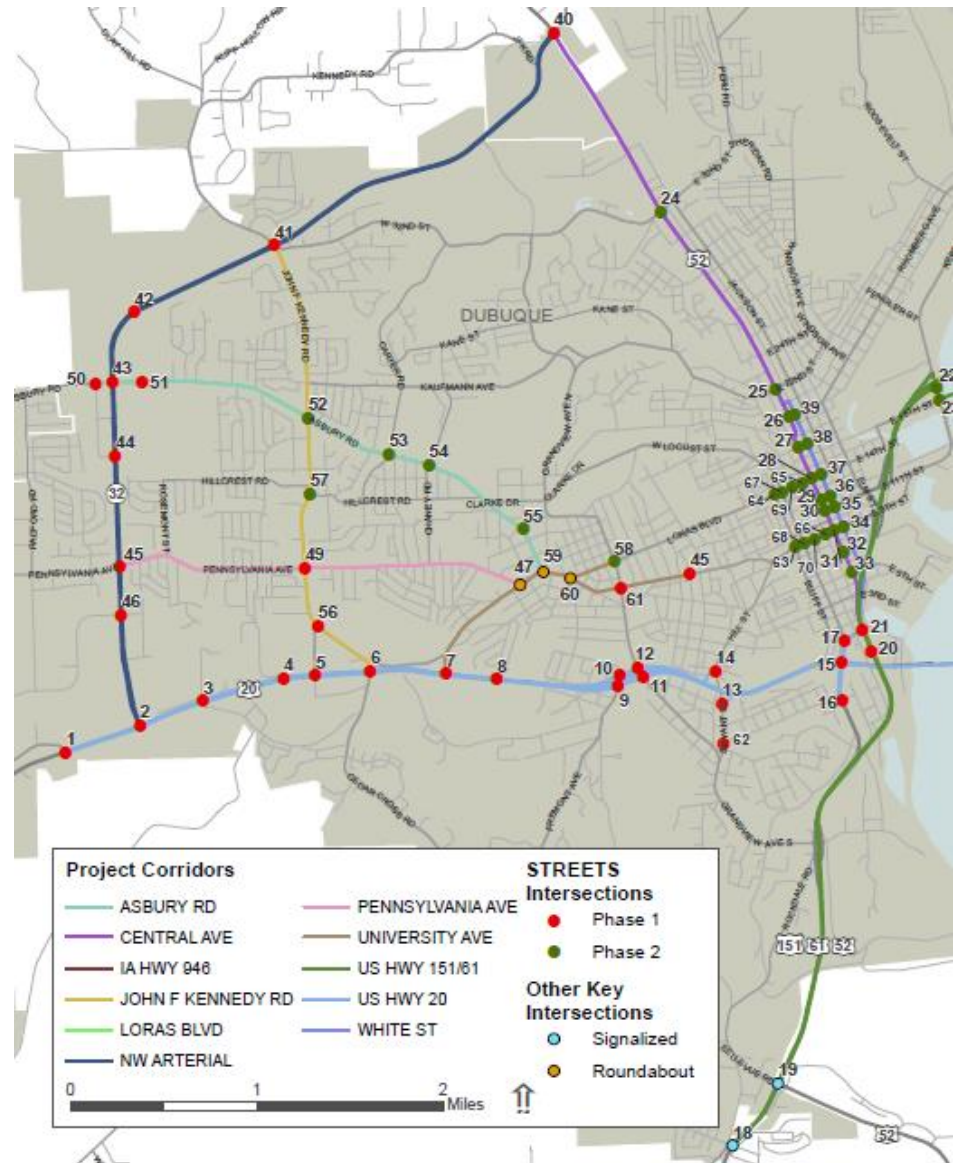
**Total Cost: \$410,400**  
**Requested: \$328,320 (80%)**



## Smart Traffic Routing with Efficient and Effective Traffic Signals – Phase 1 (Dubuque / East Central Intergovernmental Agency)

Utilize advanced traffic control strategies to create an adaptive traffic control system. Project will procure and install adaptive traffic signal equipment and ITS infrastructure at 33 intersections.

**Total Cost: \$3,366,250**  
**Requested: \$818,250 (24%)**

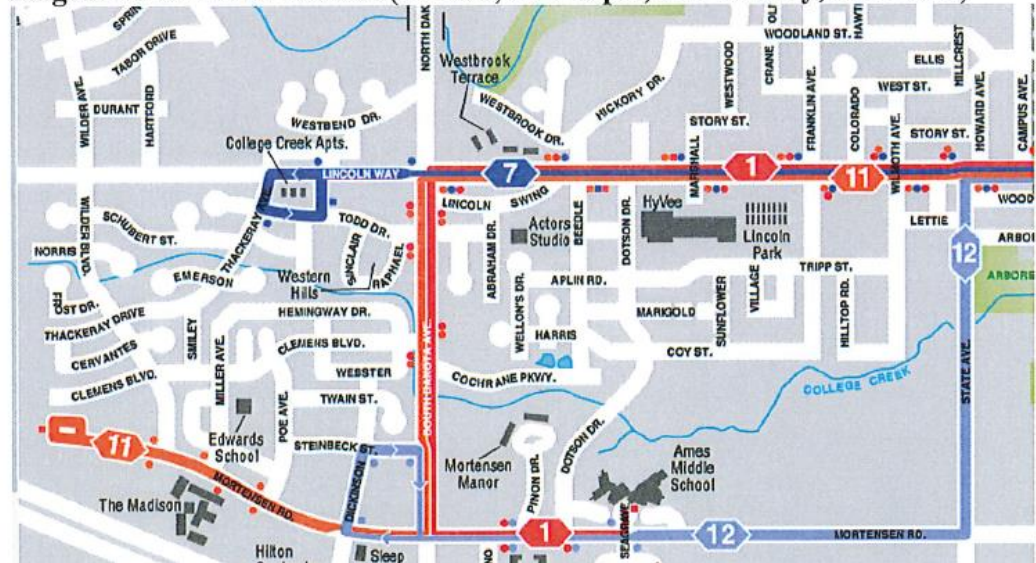


## West Ames Changes (Ames Transit Agency)

New expansion route #12 Lilac with bus purchase, additional frequency to route #1 Red, additional frequency to route #11 Cherry, and additional frequency to route #7 Purple.

**Total Cost: \$905,817**  
**Requested: \$702,848 (78%)**

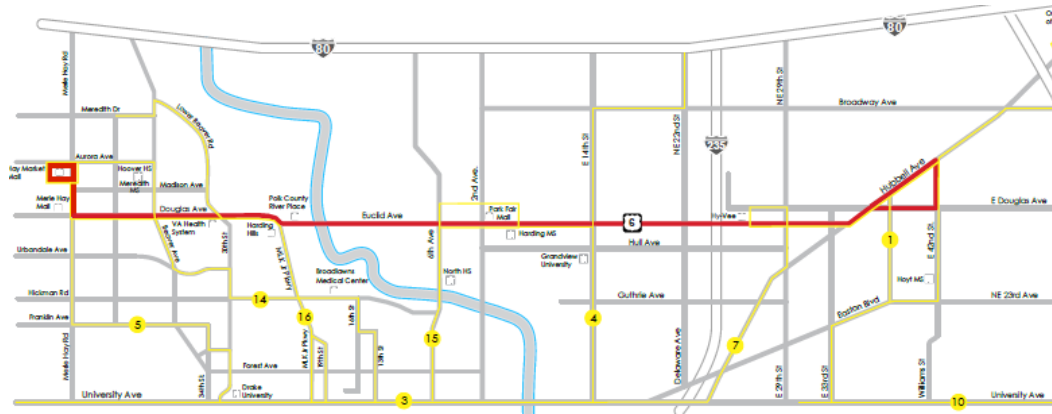
August 2018 - Four Routes (#1 Red, #7 Purple, #11 Cherry, #12 Lilac)



# Euclid Ave/Douglas Ave Crosstown – Year Two (Des Moines Area Regional Transit Authority)

Second year funding request of an all-day crosstown transit service that travels along Euclid Avenue/Douglas Avenue from East 42<sup>nd</sup> Street to Merle Hay Road.

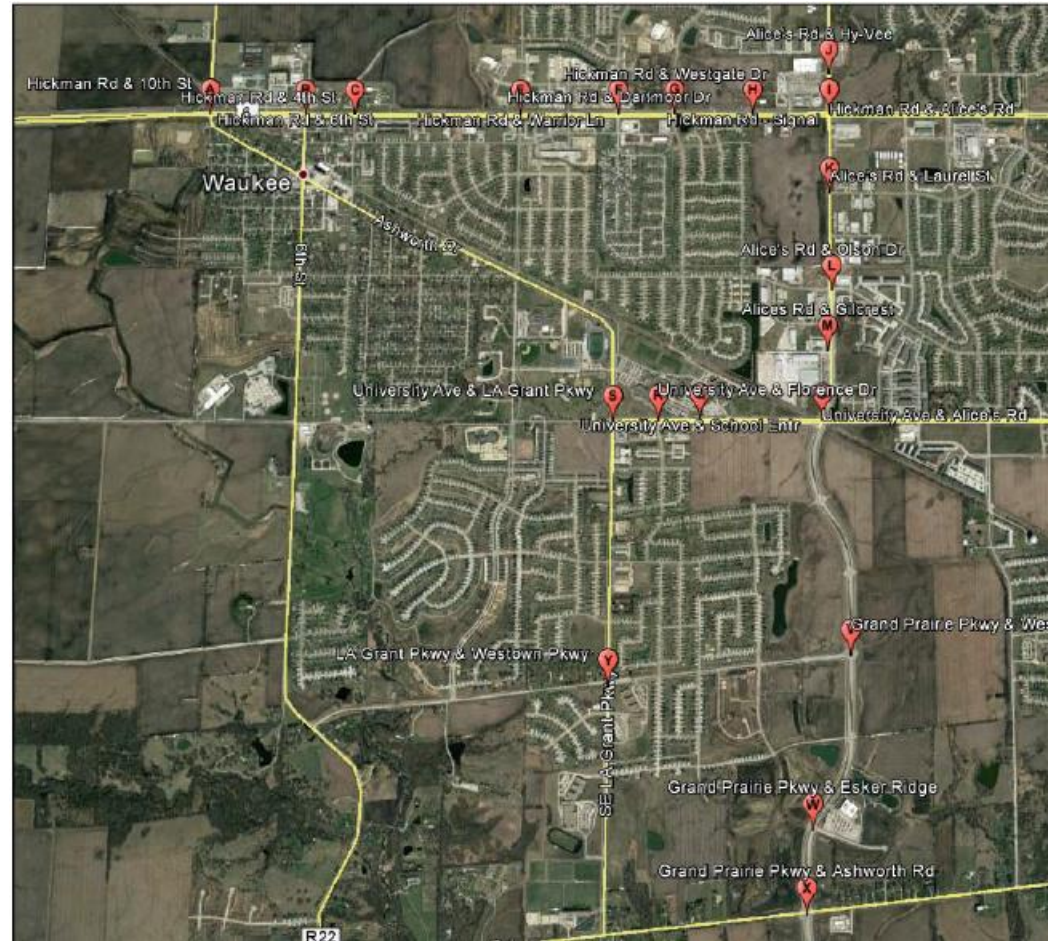
**Total Cost: \$393,744**  
**Requested: \$314,995 (80%)**



## Traffic Signal Enhancement (Waukee)

Perform a systems engineering study for adaptive signal control technology systems, procure the system, and install the system at 20 existing traffic signal intersections within Waukee.

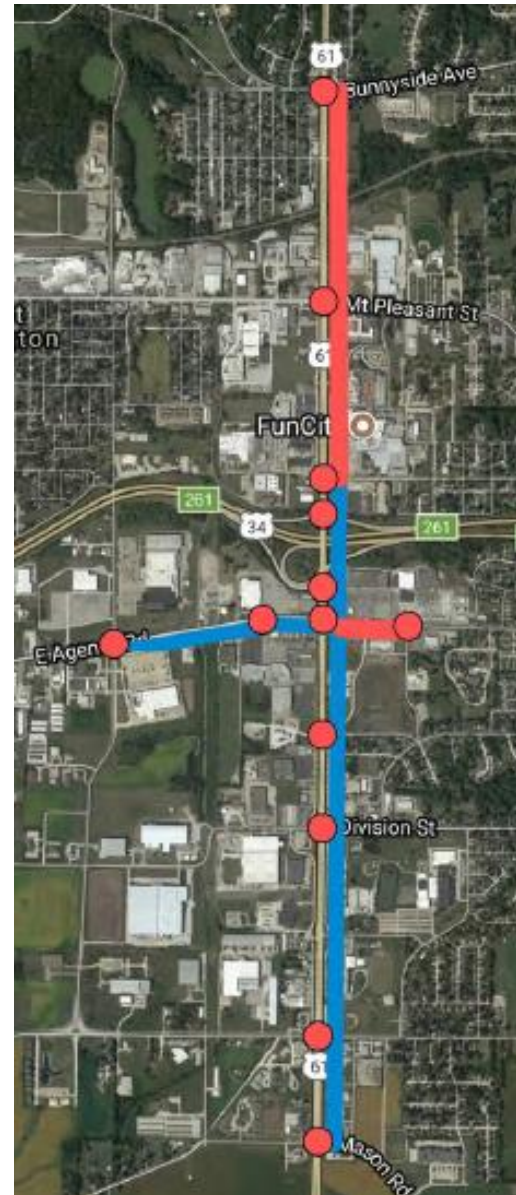
**Total Cost: \$1,344,000**  
**Requested: \$1,075,000 (80%)**



## US 61/Roosevelt Avenue Traffic Signal Control System & Fiber Network Upgrades (Burlington)

Perform a systems engineering study to select the appropriate advanced signal control system technology along US 61 (10 signals) and on Agency Street (3 signals). Includes fiber optic installation to 2 signals.

**Total Cost: \$1,232,000**  
**Requested: \$985,600 (80%)**  
**Awarded: \$760,587 (62%)**





# List of Applications Not Recommended for Award

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
Iowa 17 (S Avenue) Railroad Overpass and 200 <sup>th</sup> Street Connection	Boone County	65.6	\$2,578,300	\$800,000 (31%)	\$0
Repower Newt Marine Towboat with New EPA Certified Engines	Dubuque	65.6	\$807,651	\$403,826 (50%)	\$0
Repower Hendricks River Logistics Towboat with New EPA Tier 3 Certified Engines	Southeast Iowa Regional Port Authority	65.2	\$505,100	\$252,550 (50%)	\$0

# List of Applications Not Recommended for Award

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
#5 Yellow Midday Service Expansion	Ames Transit Agency	61.2	\$59,341	\$47,473 (80%)	\$0
RTA 8 Business Connections – Maquoketa to Cascade Van Pool	Delaware Dubuque Jackson County Regional Transit Authority	59.6	\$29,348	\$23,478 (80%)	\$0
RTA 8 Business Connections – Peosta Business Service	Delaware Dubuque Jackson County Regional Transit Authority	56.8	\$124,500	\$99,600 (80%)	\$0

# List of Applications Not Recommended for Award

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
#9 Plum ISU Breaks and Summers Route Expansion	Ames Transit Agency	56.4	\$55,437	\$44,349 (80%)	\$0
Ellis Boulevard & 6 <sup>th</sup> Street NW Connector	Cedar Rapids	44.8	\$6,080,000	\$1,740,000 (29%)	\$0
West 1 <sup>st</sup> Street Widening and Improvements Phase 1	Ankeny	33.8	\$6,473,800	\$500,000 (8%)	\$0