

**DEPARTMENT OF TRANSPORTATION  
COMMISSION ORDER**

Division/Bureau/Office Transportation Development Division  
Systems Planning Bureau Order No. \_\_\_\_\_  
 Submitted by Craig Markley Phone No. 515-239-1027 Meeting Date January 11, 2023  
 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.

Traffic System Vehicle Detection Improvement – Phase 2 (West Des Moines)	\$ 432,000
Marketing Campaign (Des Moines Area Regional Transit Authority)	\$ 40,000
Altoona ITS Master Plan (Altoona)	\$ 75,888
100th Street Adaptive Signal Coordination (Urbandale)	\$ 144,000
Deployment of Ames Traffic Signal Master Plan – Phase 4 (Ames)	\$1,521,280
Ansborough Avenue Adaptive Signal Control Technology (Waterloo)	\$ 728,000
Broadway Street Adaptive Signal Control Technology (Waterloo)	\$ 880,000
Route 17 Extension to Bondurant – Year 3 (Des Moines Area Regional Transit Authority)	\$ 52,392
 Total	 \$3,873,560

**PROPOSAL/ACTION RECOMMENDATION:**

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

**COMMISSION ACTION:**

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_

	Aye	Vote Nay	Pass
Arnold	_____	_____	_____
Fehrman	_____	_____	_____
Gaesser	_____	_____	_____
Juckette	_____	_____	_____
Rielly	_____	_____	_____
Stutsman	_____	_____	_____
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: 8
  - Total project costs: \$4,841,950
  - Total amount requested: \$3,873,560

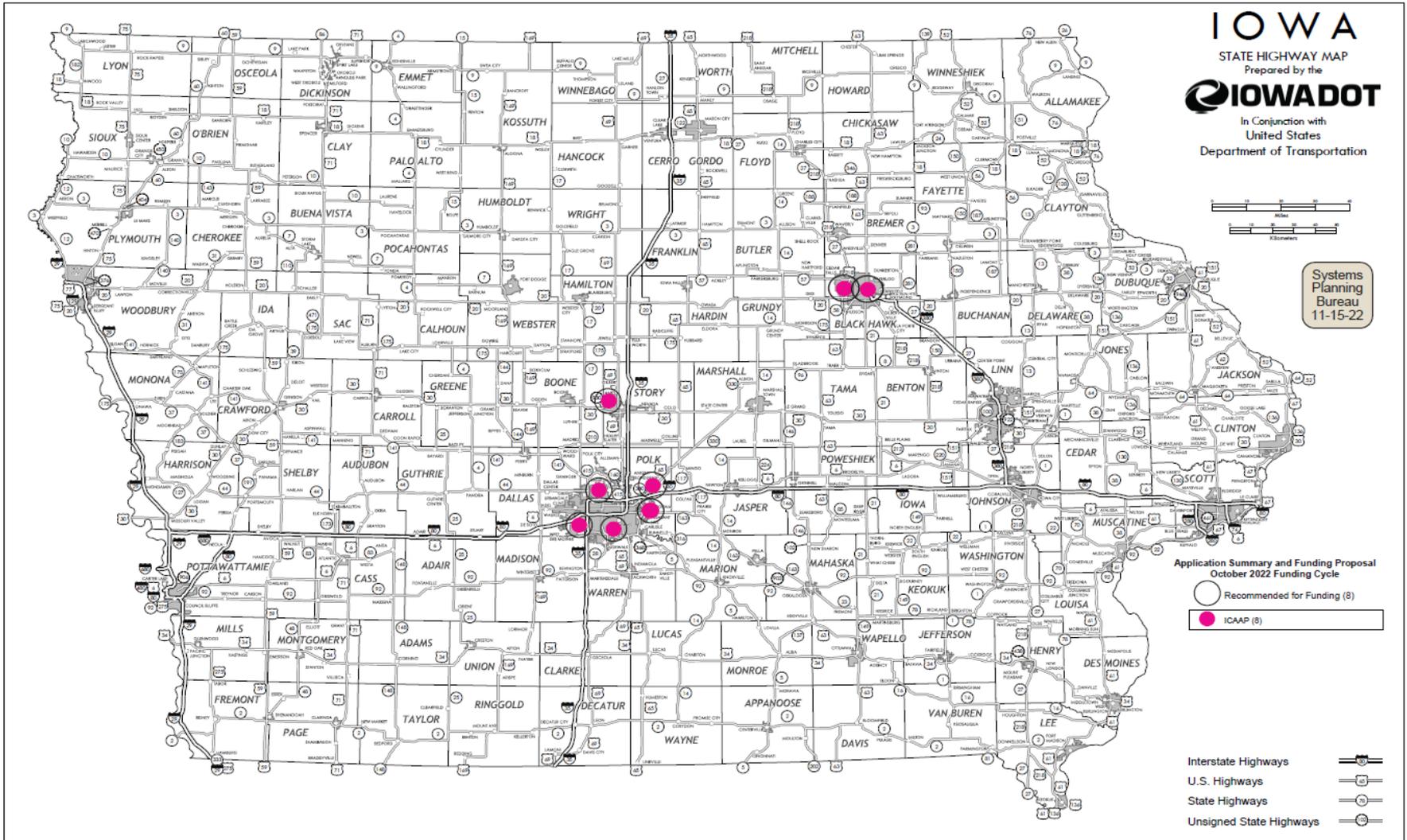
# List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<a href="#"><u>Traffic System Vehicle Detection Improvement Project – Phase 2</u></a>	West Des Moines	86	\$540,000	\$432,000 (80%)	\$432,000 (80%)
<a href="#"><u>Marketing Campaign</u></a>	Des Moines Area Regional Transit Authority	76	\$50,000	\$40,000 (80%)	\$40,000 (80%)
<a href="#"><u>Altoona ITS Master Plan</u></a>	Altoona	72	\$94,860	\$75,888 (80%)	\$75,888 (80%)
<a href="#"><u>100th Street Adaptive Signal Coordination</u></a>	Urbandale	53	\$180,000	\$144,000 (80%)	\$144,000 (80%)
<a href="#"><u>Deployment of Ames Traffic Signal Master Plan – Phase 4</u></a>	Ames	52	\$1,901,600	\$1,521,280 (80%)	\$1,521,280 (80%)

# 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>Ansborough Avenue Adaptive Signal Control Technology</u></a>	Waterloo	44	\$910,000	\$728,000 (80%)	\$728,000 (80%)
<a href="#"><u>Broadway Street Adaptive Signal Control Technology</u></a>	Waterloo	41	\$1,100,000	\$880,000 (80%)	\$880,000 (80%)
<a href="#"><u>Route #17 Extension to Bondurant – Year 3</u></a>	Des Moines Regional Transit Authority	29	\$65,490	\$52,392 (80%)	\$52,392 (80%)

# Map of Applications Received



# Estimated Annual Benefits of Recommended Projects

- Reduction of Vehicle Hours of Travel: 721,548
- Reduction of Vehicle Miles of Travel: 5,559,581
- Improved Air Quality
  - Reduced CO, VOCs, & NOx Emissions: 343,925 lbs.



QUESTIONS?



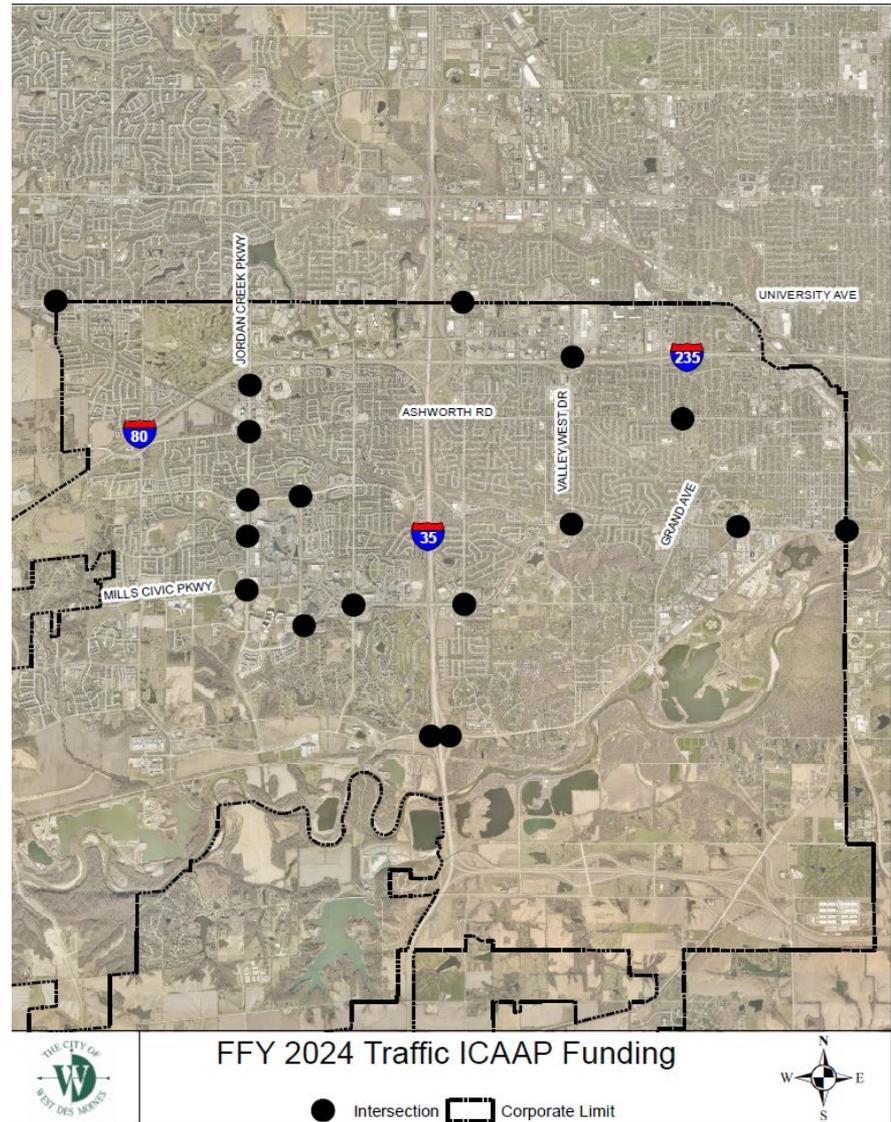
Jared Smith  
Iowa's Clean Air Attainment program manager  
[Jared.Smith@iowadot.us](mailto:Jared.Smith@iowadot.us)

## Traffic System Vehicle Detector Improvement Project – Phase 2 (West Des Moines)

Replace existing vehicle detection method, such as in-pavement loops, with state-of-the-art single point video detection.

**Total Cost:** \$540,000

**Requested:** \$432,000 (80%)

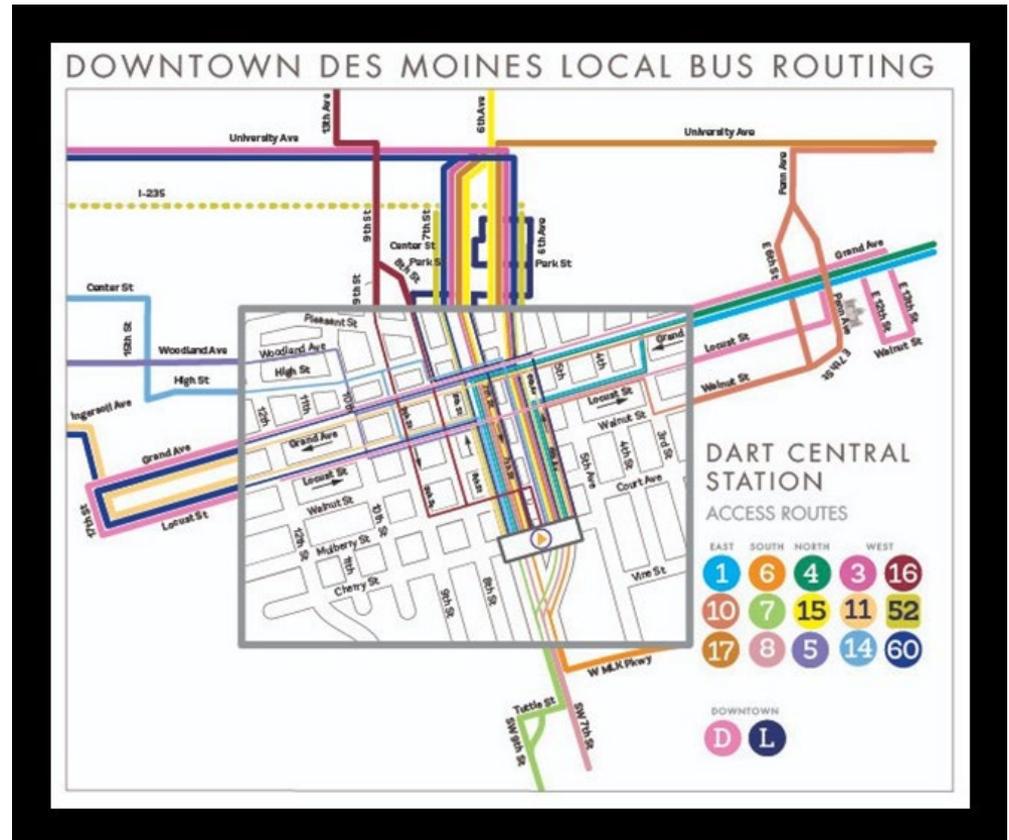


## Marketing Campaign (Des Moines Area Regional Transit Authority)

The project is a marketing campaign aiming to increase awareness and ridership on DART's Fixed Route service and Ride Share service.

**Total Cost: \$50,000**

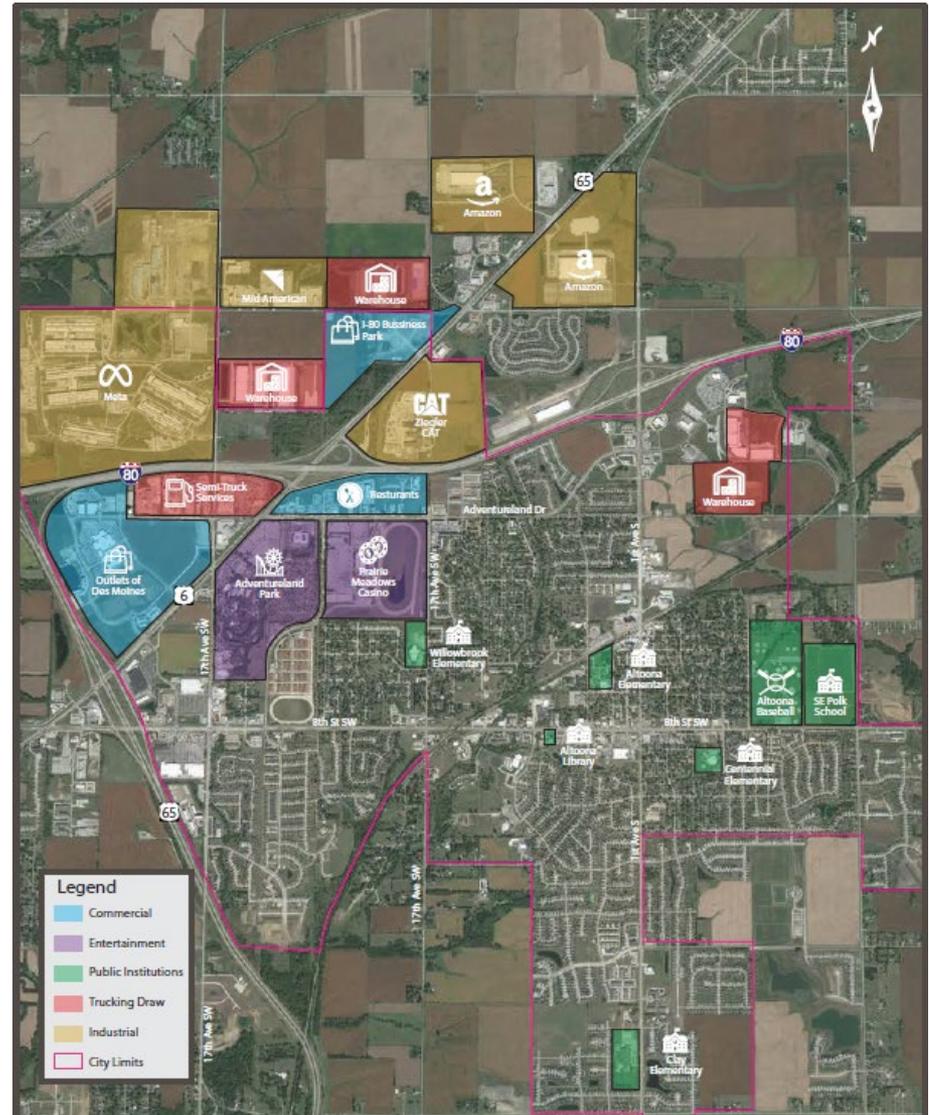
**Requested: \$40,000 (80%)**



## ITS Master Plan (Altoona)

Development of a city-wide Intelligent Transportation System (ITS) Master Plan which will allow the city to leverage their investment in their city-wide fiber communication system to monitor and improve traffic flows on major corridors and around key event centers, like Adventureland and Prairie Meadows.

**Total Cost: \$94,860**  
**Requested: \$75,888 (80%)**



## 100th Street Adaptive Signal Coordination (Urbandale)

Adaptive signal control technology and detection modifications to improve adaptive operation at five existing signalized intersections along 100th Street between Plum Drive and NW 54th Avenue. Adaptive signal control would be beneficial on 100th Street to improve traffic flow during peak travel times and for incident management along I-35/80.

**Total Cost: \$180,000**  
**Requested: \$144,000 (80%)**

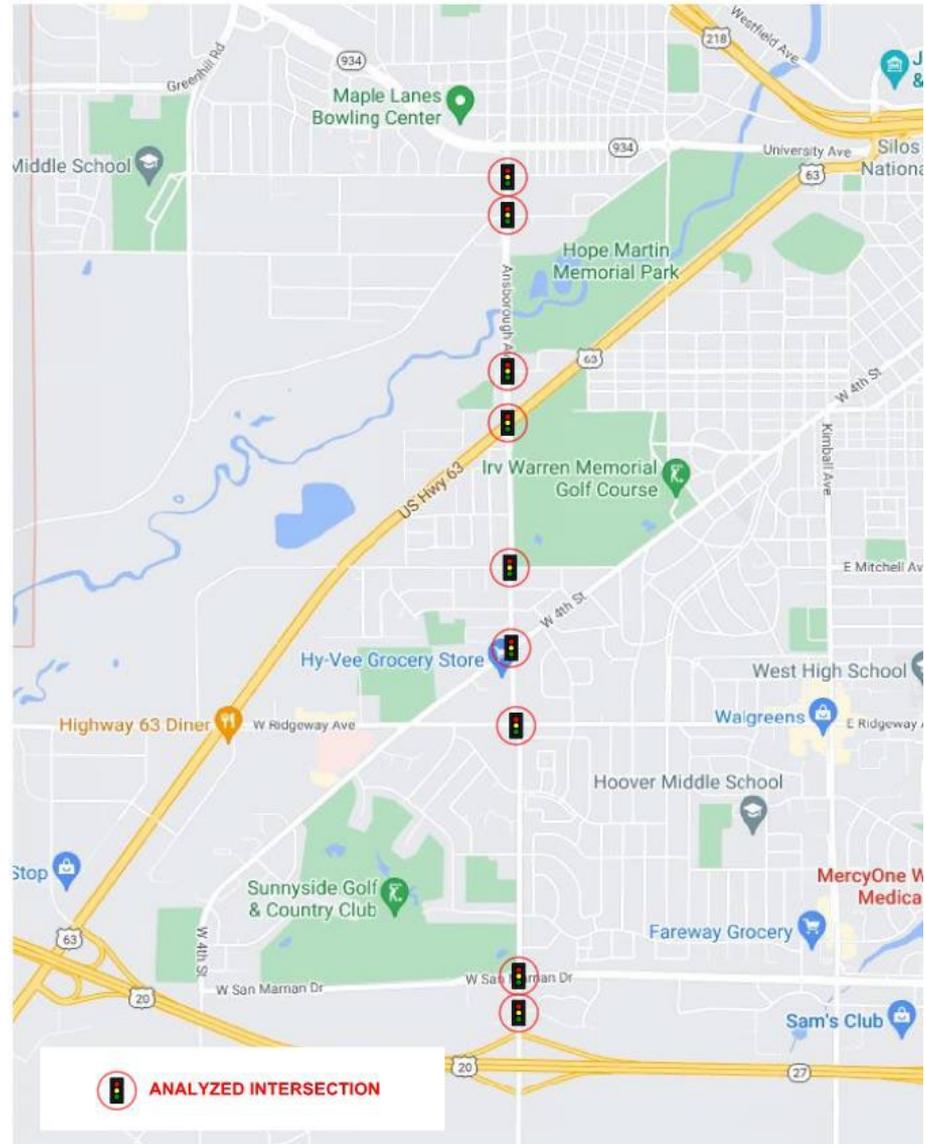




## Ansborough Avenue Adaptive Signal control Technology (Waterloo)

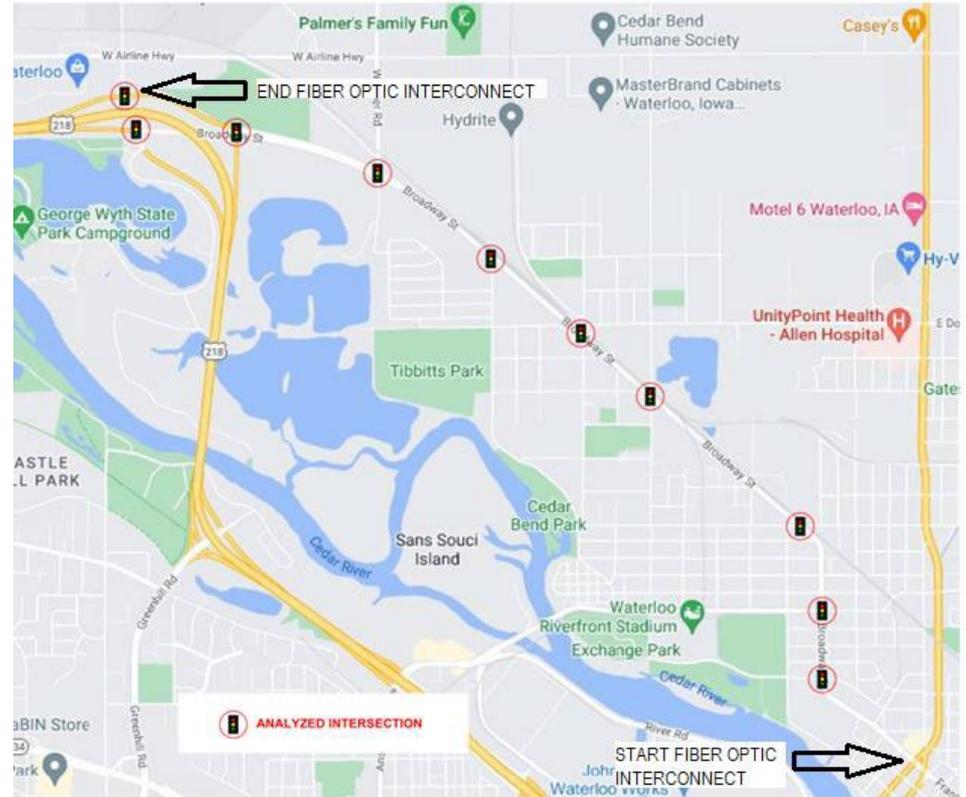
Install adaptive signal control technology on Ansborough Avenue in Waterloo. This project includes 2.7 miles of fiber optic interconnection and connection to the city of Waterloo traffic fiber optic network at the Downing Street intersection with Ansborough Avenue.

**Total Cost: \$910,000**  
**Requested: \$728,000 (80%)**



## Broadway Street Adaptive Signal Control Technology (Waterloo)

Install adaptive signal control technology on Broadway Avenue in Waterloo. This project includes 3.7 miles of fiber optic interconnection and connection to the city of Waterloo traffic fiber optic network at the Franklin Street intersection with U.S. 63.

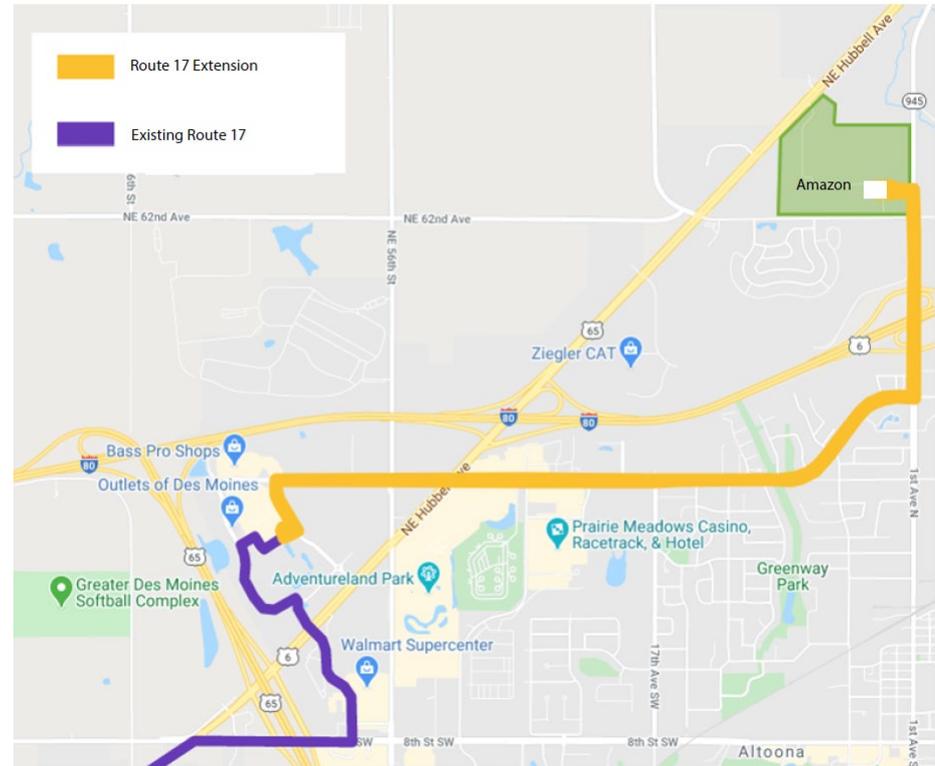


**Total Cost: \$1,100,000**  
**Requested: \$880,000 (80%)**

Exhibit B - Route 17 Extension

## Route #17 Extension to Bondurant – Year 3 (Des Moines Regional Transit Authority)

DART extended service on Route #17 between the Outlets of Des Moines and the Amazon facility in Bondurant in November 2020. The route extension provides transportation options for the employees of the Amazon facility as well as providing additional connections for the residents of Bondurant to Des Moines.



**Total Cost: \$65,490**  
**Requested: \$52,392 (80%)**