

**DEPARTMENT OF TRANSPORTATION
COMMISSION ORDER**

Division/Bureau/Office Planning, Programming and Modal Division
Systems Planning Bureau Order No. PPM-2021-48
 Submitted by Debra Arp Phone No. 515-239-1681 Meeting Date January 13, 2021
 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.

#6 Brown, Night Service – Year 2 (Ames Transit Agency)	\$ 29,984
#11 Cherry, Add Night Service – Year 2 (Ames Transit Agency)	\$ 33,544
#12 Lilac, Midday Service – Year 2 (Ames Transit Agency)	\$ 31,655
Grand Avenue (U.S. 71) Signal Equipment Upgrades (Spencer)	\$ 219,708
Iowa 28 Traffic Signal System (Norwalk)	\$ 706,400
Logan Avenue (U.S. 63) Adaptive Traffic System (Waterloo)	\$ 112,392
Route 17 Extension to Bondurant - Year 1 (Des Moines Area Regional Transit Authority)	\$ 50,745
Traffic Signal Communication Network – Phase 2 (Ames)	\$1,400,000
Traffic Signal Network Communication Project (Grimes)	\$ 875,200
Traffic Signal System Timing Update – Phase 4 (Des Moines)	\$ 220,000
West Ames Changes: (New Expansion Route #12 Lilac & Bus; Added Frequency (#1 Red, #11 Cherry, #7 Purple) – Year 3, (Ames Transit Agency)	\$ 320,372
Total	\$4,000,000

PROPOSAL/ACTION RECOMMENDATION:

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

COMMISSION ACTION:

Moved by Kathy Fehrman Seconded by Rich Arnold

	Aye	Vote Nay	Pass
Arnold	<u>x</u>	_____	_____
Fehrman	<u>x</u>	_____	_____
Juckette	<u>x</u>	_____	_____
Maher	<u>x</u>	_____	_____
Putney	<u>x</u>	_____	_____
Rielly	<u>x</u>	_____	_____
Yanney	<u>x</u>	_____	_____

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: 17
 - Total project costs: \$20,772,552
 - Total amount requested: \$10,971,776

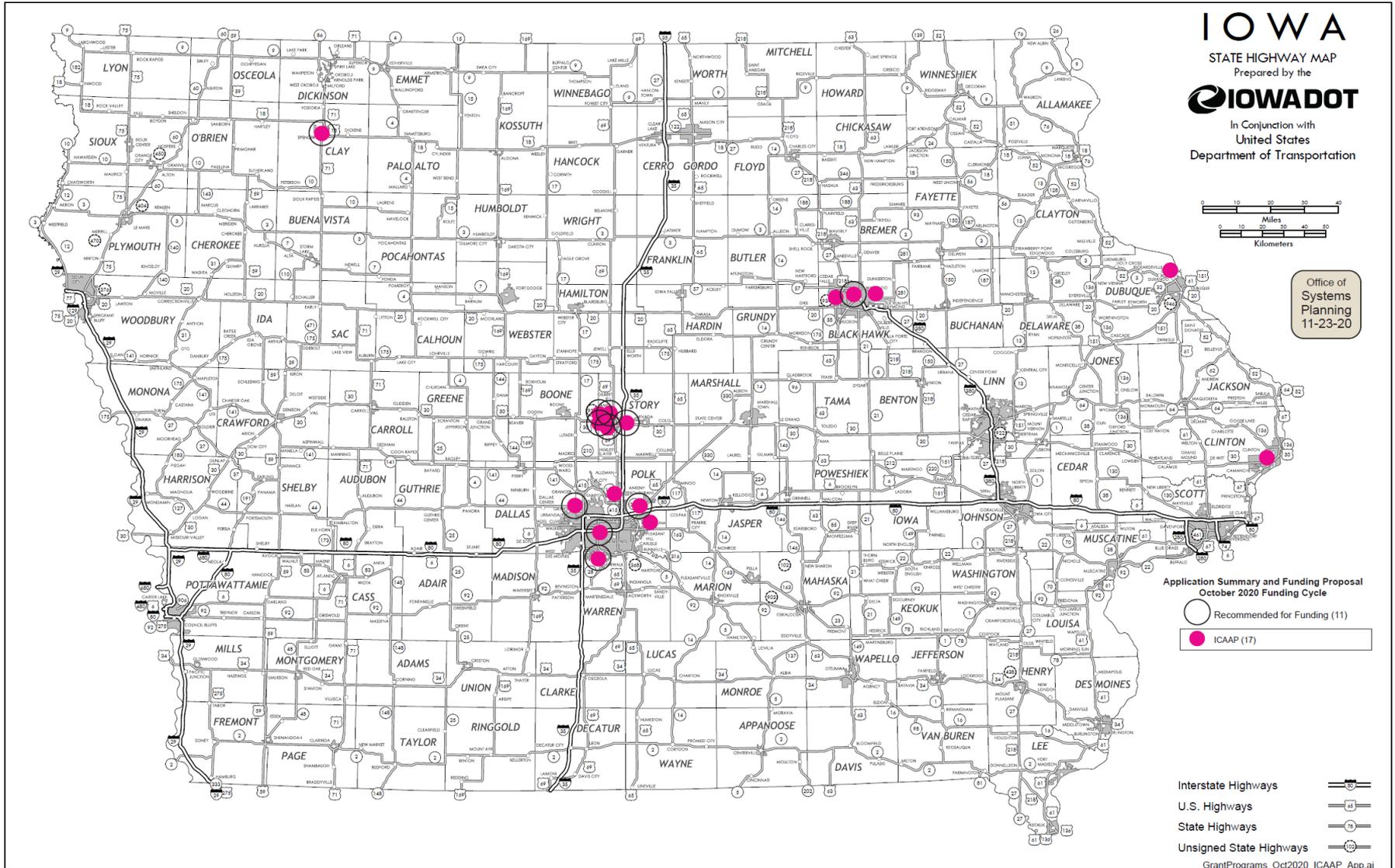
List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<u>Traffic Signal Communication Network - Phase 2</u>	Ames	81.3	\$1,750,000	\$1,400,000 (80%)	\$1,400,000 (80%)
<u>West Ames Changes</u>	Ames Transit Agency	71.6	\$400,466	\$320,372 (80%)	\$320,372 (80%)
<u>Traffic Signal System Timing Update - Phase 4</u>	Des Moines	70.7	\$275,000	\$220,000 (80%)	\$220,000 (80%)
<u>Traffic Signal Network Communication Project</u>	Grimes	67.8	\$1,094,000	\$875,200 (80%)	\$875,200 (80%)
<u>#11 Cherry Night Service</u>	Ames Transit Agency	63.8	\$41,930	\$33,544 (80%)	\$33,544 (80%)
<u>Iowa 28 Traffic Signal System</u>	Norwalk	62.7	\$883,000	\$706,400 (80%)	\$706,400 (80%)

List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<u>#6 Brown Night Service</u>	Ames Transit Agency	60.9	\$37,481	\$29,984 (80%)	\$29,984 (80%)
<u>#12 Lilac Midday Service</u>	Ames Transit Agency	59.4	\$39,569	\$31,655 (80%)	\$31,655 (80%)
<u>Grand Avenue (U.S. 71) Signal Equipment Upgrades</u>	Spencer	57.2	\$274,635	\$219,708 (80%)	\$219,708 (80%)
<u>Route #17 Extension to Bondurant</u>	Des Moines Regional Transit Authority (DART)	57.1	\$63,432	\$50,745 (80%)	\$50,745 (80%)
<u>Logan Avenue (U.S. 63) Adaptive Traffic System</u>	Waterloo	46.0	\$145,000	\$116,000 (80%)	\$112,392 (78%)

Map of Applications Received



Estimated Annual Benefits of Recommended Projects

- **Reduction of Vehicle Hours of Travel: 698,709**
- **Reduction of Vehicle Miles of Travel: 5,490,742**
- **Improved Air Quality**
 - **Reduced CO, VOCs, & NOx Emissions: 333,039 lbs.**



QUESTIONS?

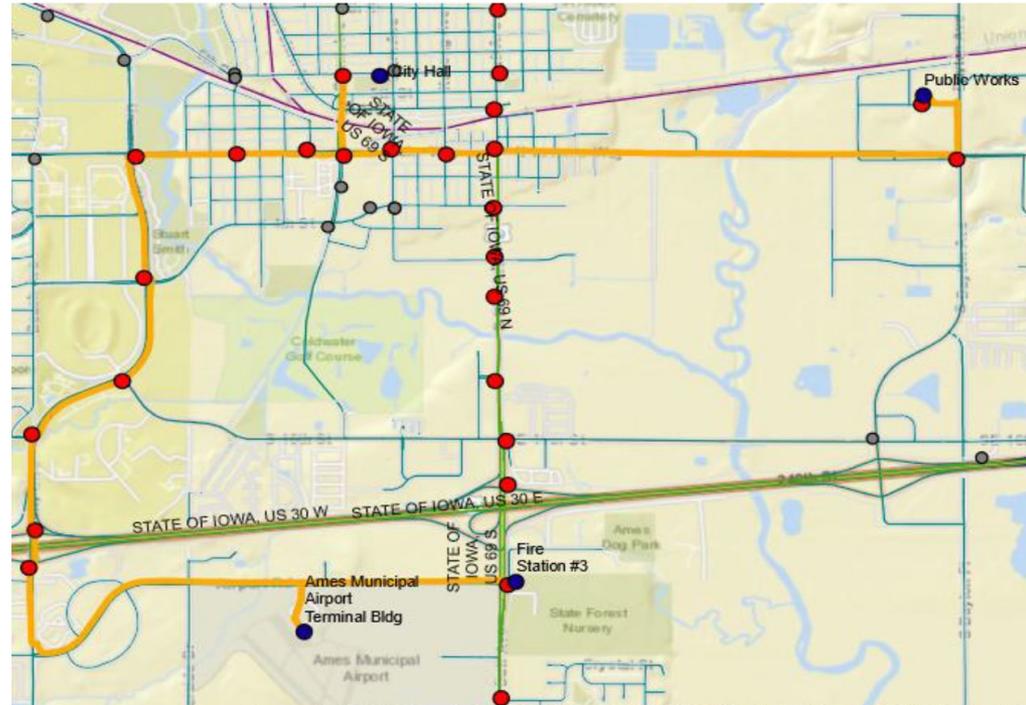


Jared Smith
Iowa's Clean Air Attainment program manager
Jared.Smith@iowadot.us

Traffic Signal Communication Network – Phase 2 (Ames)

Install fiber optic cable and network switching equipment, traffic signal cabinets, Advanced Traffic Controllers, Advanced Traffic Management System, and software to provide communication and traffic management capabilities along a portion of Dayton Avenue, Grand Avenue, East Lincoln Way, South University Boulevard, and Airport Road.

Total Cost: \$1,750,000
Requested: \$1,400,000 (80%)



Legend

- City Facilities
- Signal Online After Phase
- Other Signals
- Proposed Phase 2 Fiber

West Ames Changes – Year 3 (Ames Transit Agency)

Provides year three operating support of the #12 Lilac expansion route and adds frequency to three routes (#1 Red, #11 Cherry, & #7 Purple). These changes were made together to the system as part of a recent system redesign in response to the growth of high-density residential development in west Ames.

Total Cost: \$400,466
Requested: \$320,372 (80%)

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

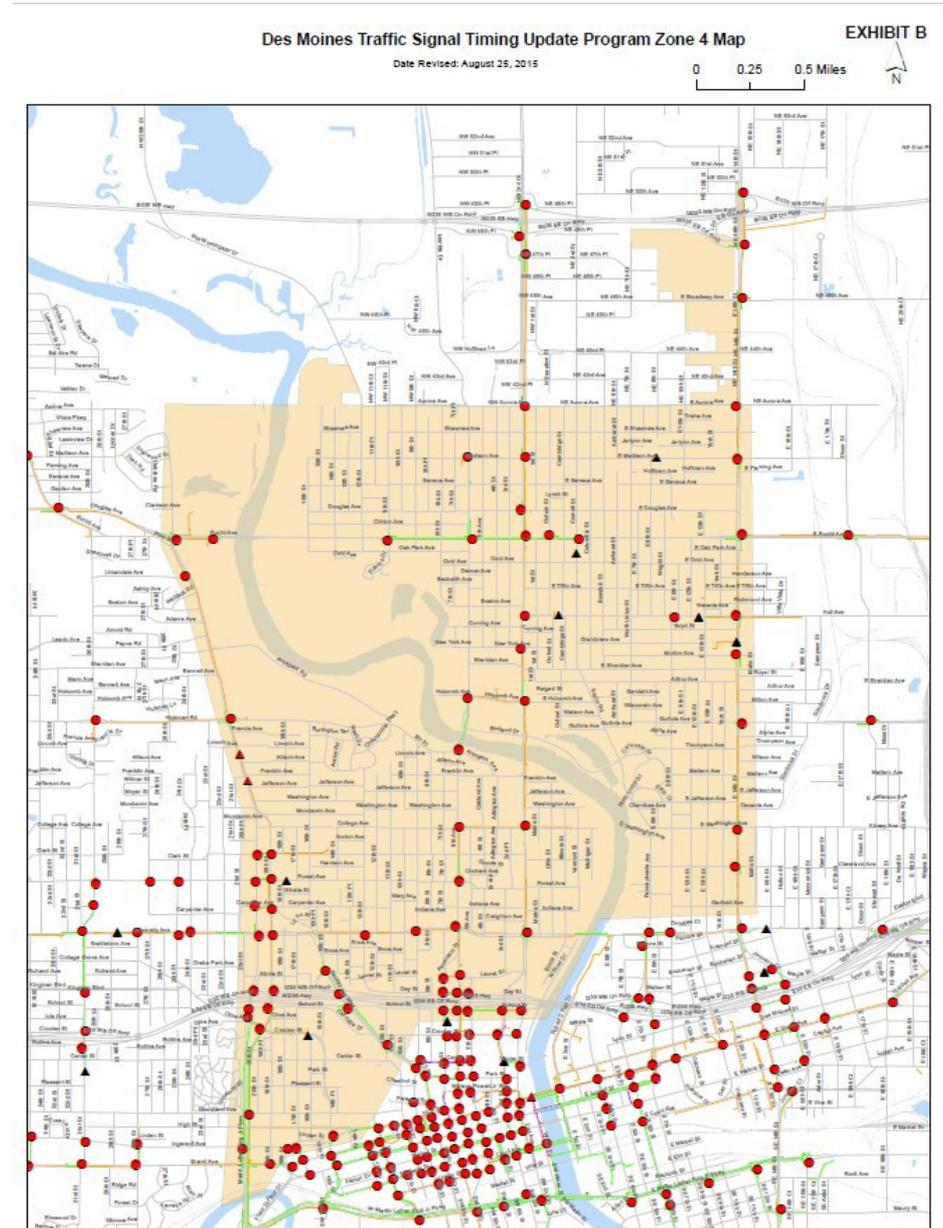


Traffic Signal System Timing Update – Phase 4 (Des Moines)

Review and update signal timing and phasing plans for the traffic signal system in Des Moines. This is the fourth phase of a project to update signal operations throughout the entire city of Des Moines.

Total Cost: \$275,000
Requested: \$220,000 (80%)

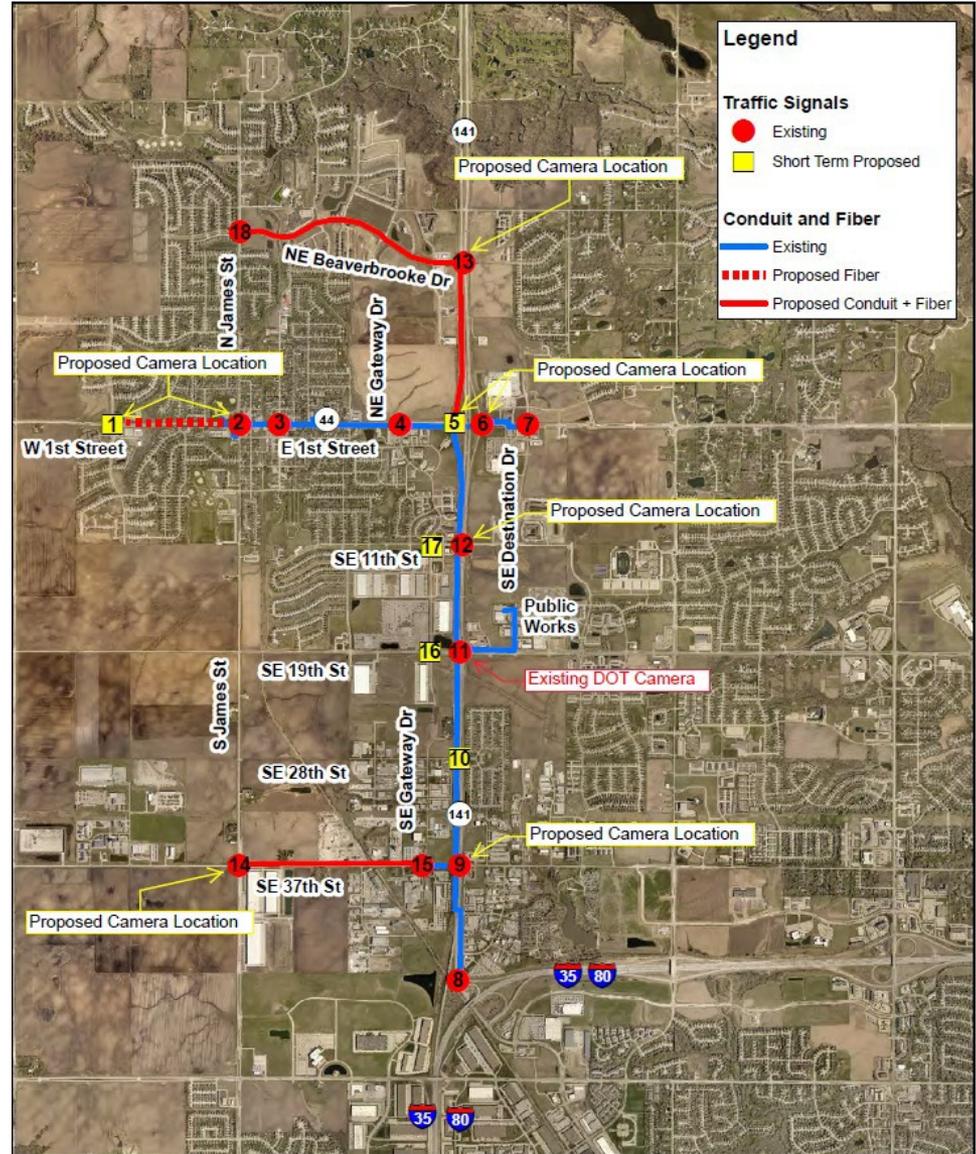
[Return to List of Applications Recommended](#)



Traffic Signal Network Communication Project (Grimes)

This project will include a systems engineering analysis and identification and implementation of system upgrades including conduit and fiber optic interconnect of the existing network, traffic signal management software, signal cabinet equipment upgrades, detection upgrades, and traffic monitoring camera installation.

Total Cost: \$1,094,000
Requested: \$875,200 (80%)



#11 Cherry Night Service – Year 2 (Ames Transit Agency)

Add new night service trips to the #11 Cherry route to improve safety and due to residential demand.

Total Cost: \$41,930
Requested: \$33,544 (80%)

#11 Cherry



Iowa 28 Traffic Signal System (Norwalk)

This project will include a systems engineering analysis and identification and implementation of system upgrades including conduit and fiber optic interconnect of the existing network, traffic signal management software, signal cabinet equipment upgrades, detection upgrades, and traffic monitoring camera installation.

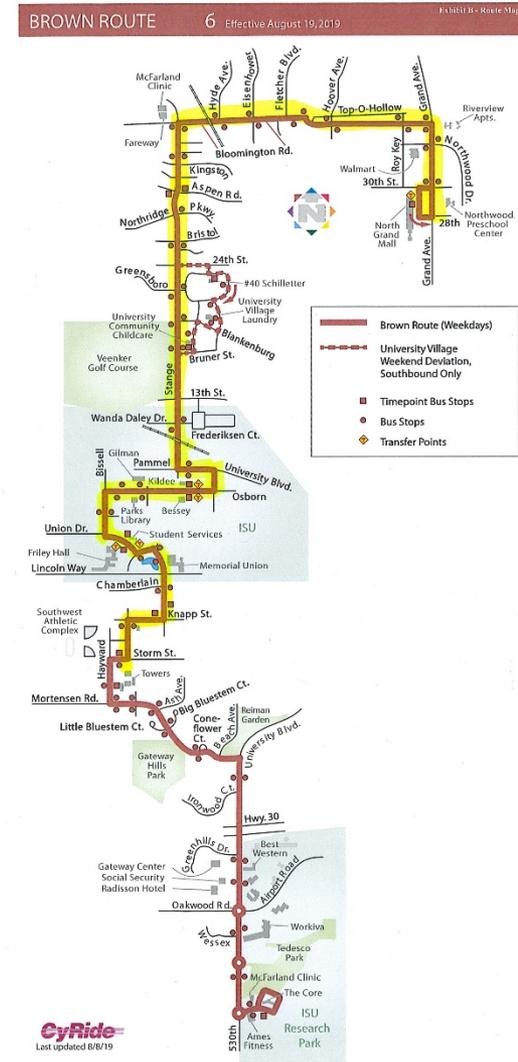
Total Cost: \$883,000
Requested: \$706,400 (80%)



#6 Brown Night Service – Year 2 (Ames Transit Agency)

Add new night service trips to the #6 Brown route to improve safety and due to residential demand.

Total Cost: \$37,481
Requested: \$29,984 (80%)



#12 Lilac Midday Service – Year 2 (Ames Transit Agency)

Add new midday service trips to the #12 Lilac route due to residential demand.

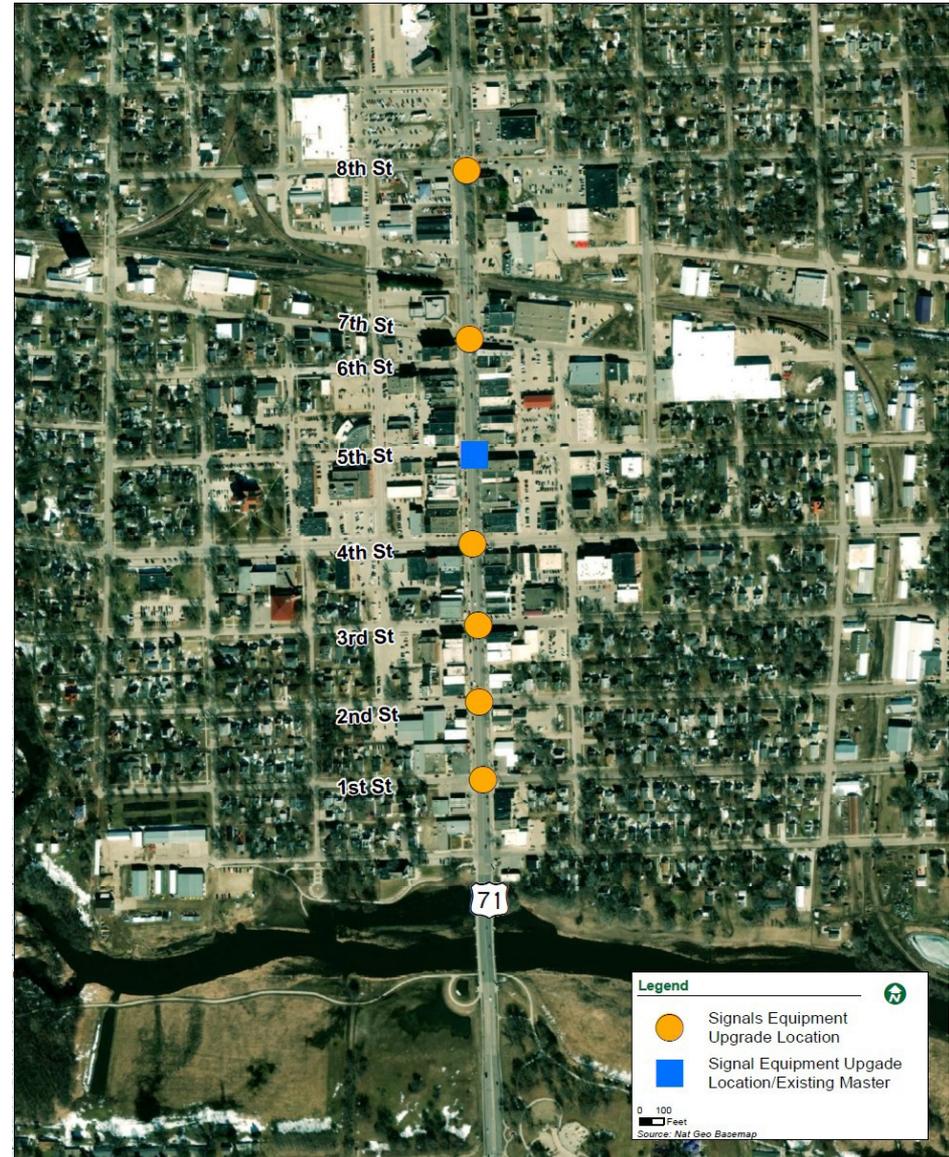
Total Cost: \$39,569
Requested: \$31,655 (80%)



Grand Avenue (U.S. 71) Signal Equipment Upgrades (Spencer)

This project will update signal timing and equipment along Grand Avenue (U.S. 71) from 1st Street to 8th Street.

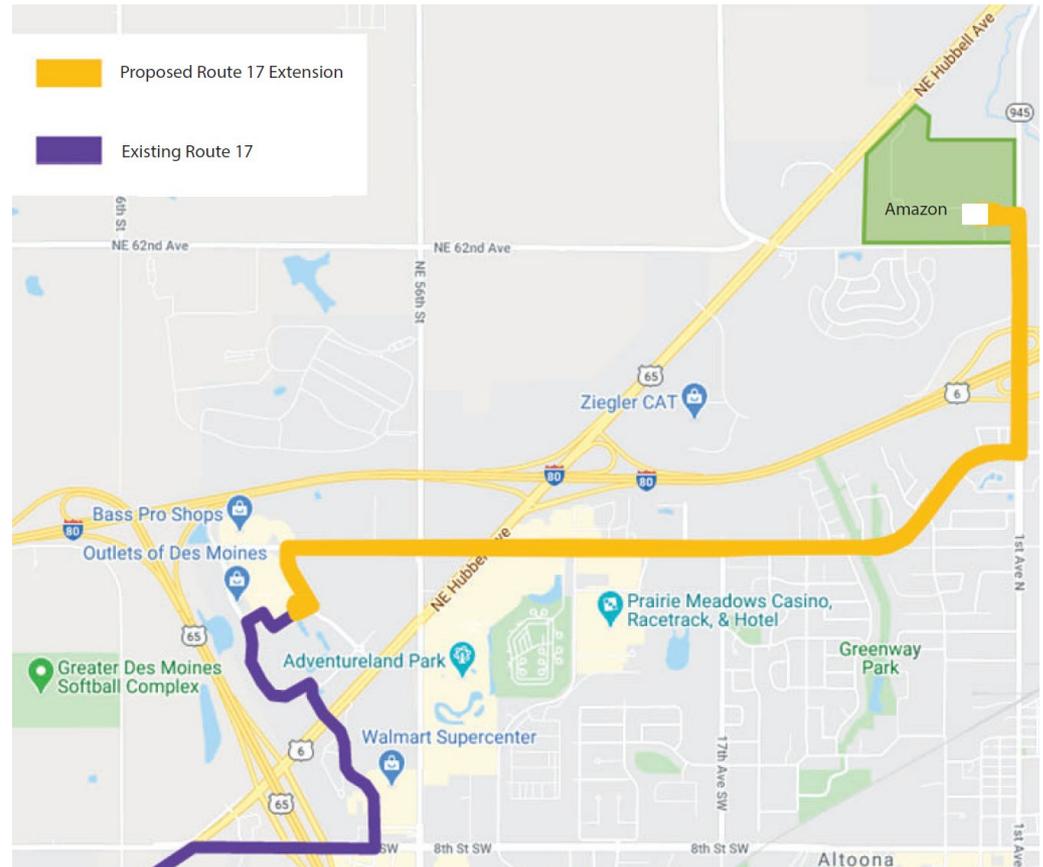
Total Cost: \$274,635
Requested: \$219,708 (80%)



Route #17 Extension to Bondurant (Des Moines Area Regional Transit Authority)

The existing route #17 travels to Altoona via Hubbell Avenue. This project extends service to Bondurant via Adventureland Drive and 1st Avenue North and will assist workforce transportation to the Amazon site location.

Total Cost: \$63,432
Requested: \$50,745 (80%)



Logan Avenue (U.S. 63) Adaptive Traffic System (Waterloo)

This project will install adaptive traffic signal equipment and technology upgrades along five intersections on Logan Ave.

Total Cost: \$145,000
Requested: \$116,000 (80%)
Recommended: \$112,392 (78%)



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 160/SW Oralabor Road and Iowa 415/SW State Street Intersection Improvements	Ankeny	58.4	\$1,847,000	\$925,000 (50%)	\$0
Broadway Street Traffic Signal Control System Upgrade	Waterloo	43.3	\$560,000	\$448,000 (80%)	\$0
Intersection Improvement to Roundabout at Manufacturing Drive and South 19th Street	Clinton	42.8	\$930,300	\$744,200 (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)
West 27th Street Reconstruction	Cedar Falls	42.3	\$1,500,000	\$1,200,000 (80%)	\$0
John Deere Improvements	Dubuque County	41.5	\$6,992,029	\$500,000 (7%)	\$0
1st Avenue Widening at Roundabout – Phase 2	Altoona	29.4	\$3,938,710	\$3,150,968 (80%)	\$0