

**CITY COUNCIL
COMMUNICATION:**

03-396

AGENDA:

AUGUST 11, 2003

SUBJECT:

CONGESTION
MITIGATION AND AIR
QUALITY
IMPROVEMENT FUND
APPLICATIONS—
TRAFFIC SIGNAL
INTERCONNECTION
UPGRADING
PROJECTS (1) SE
14TH STREET / ARMY
POST ROAD
CORRIDOR; AND (2)
FLEUR DRIVE
CORRIDOR

TYPE:

RESOLUTION
ORDINANCE
RECEIVE/FILE

SUBMITTED BY:

JEB E. BREWER, P.E.
CITY ENGINEER

ITEM _____

**OFFICE OF THE CITY MANAGER
CITY OF DES MOINES, IOWA**

SYNOPSIS —

Approval of 16 signalized locations along the SE 14th Street/Army Post Road corridor and nine signalized locations along the Fleur Drive corridor have been identified for interconnection upgrading which will reduce vehicle emissions and qualify for funding under the Clean Air Attainment Program.

FISCAL IMPACT —

Total construction cost for SE 14th Street is \$480,000, and for Fleur Drive is \$475,000. The City's share is 20 percent, or a total of \$191,000. The City would also be responsible for design/inspection services, estimated at \$145,000. If the project is approved, the City's total share (\$336,000) is proposed to be funded from future Capital Improvements Program (CIP), Citywide Traffic Signal Interconnection Projects.

RECOMMENDATION —

Approval.

BACKGROUND —

The Federal Highway Administration (FHWA) established a Congestion Mitigation and Air Quality Improvement (CMAQ) program that directs federal transportation funds towards projects to reduce congestion and pollution. Iowa's share of the funding is \$4.7 million annually.

The Iowa Department of Transportation (IDOT) has established an Iowa Clean Air Attainment Program (ICAAP), including guidelines on how to prioritize the disbursement of these funds. Their program is implemented through a statewide competitive application procedure that evaluates each proposed project, based on reducing congestion and pollution and thereby maintaining the clean air quality that Iowa now enjoys.

Types of projects that are eligible for this funding include traffic flow improvements, shared-ride services, transit improvements, pedestrian and bicycle programs, and others.

This year's project applications are required to be submitted through the Metropolitan Planning Organization (MPO) to IDOT no later than August 22, 2003.

**CITY COUNCIL
COMMUNICATION**

03-396

AUGUST 11, 2003

PAGE TWO

The City has previously received funding for several projects through this program, including Martin Luther King, Jr. Parkway (\$5,500,000); the Downtown Traffic Signal System (\$3,000,000); the East 14th Street Signal System (\$800,000); the East Side Traffic Signal Interconnection (\$580,000); and the Northwest Side Traffic Signal Interconnection (\$400,000).

It is proposed that the City of Des Moines submit two projects for consideration to IDOT. On the August 11, 2003 agenda, there will be a roll call directing the City Manager to submit applications through the MPO to IDOT for CMAQ funds for the following projects:

1. SE 14th Street/Army Post Road Traffic Signal Interconnection Upgrading
2. Fleur Drive Traffic Signal Interconnection Upgrading

The SE 14th Street project consists of signal interconnection along SE 14th Street and along East Army Post Road. The project will upgrade the interconnection of 16 traffic signals into an advanced "closed-loop" system, which will be capable of monitoring the traffic flows and modifying traffic signal timing plans to adjust to changing conditions. It will replace the existing communications system, which is approximately 20 years old. The estimated construction cost is \$480,000, of which 80 percent would be requested from ICAAP funding.

The Fleur Drive project consists of signal interconnection along Fleur Drive between Gray's Lake and Army Post Road. The project will upgrade the interconnection of nine traffic signals into an advanced "closed-loop" system, which will be capable of monitoring the traffic flows and modifying traffic signal timing plans to adjust to changing conditions. It will replace the existing communications system, which is over 20 years old. The estimated construction cost is \$475,000, of which 80 percent would be requested from ICAAP funding.

FUNDING AND SCHEDULE:

The total construction cost of these projects is estimated to be \$955,000. CMAQ funding of 80 percent (\$764,000) is requested. The City's share of the construction cost would be \$191,000, and \$145,000 for design/construction engineering. The City's total share of \$336,000 is proposed from the CIP, Citywide Traffic Signal Interconnection Projects. If approved, the projects would be scheduled for construction in 2005.

