

**CITY COUNCIL
COMMUNICATION:**

03-322

AGENDA:

JULY 14, 2003

SUBJECT:

CENTER FOR
TRANSPORTATION
RESEARCH AND
EDUCATION
AGREEMENT FOR
IOWA PAVEMENT
MANAGEMENT
PROGRAM DATA
COLLECTION AND
GEOGRAPHIC
INFORMATION
SYSTEM DATABASE

TYPE:

RESOLUTION
ORDINANCE
RECEIVE/FILE

SUBMITTED BY:

WILLIAM STOWE
PUBLIC WORKS
DIRECTOR

ITEM _____

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

SYNOPSIS —

On May 21, 2001, by Roll Call No. 01-1489, the City Council approved an agreement between the Iowa State University Center for Transportation Research and Education (CTRE) and the City of Des Moines for pavement condition data collection, pavement video log data collection, and Geographic Information System (GIS) database development as part of the Iowa Pavement Management Program (IPMP). The Iowa Department of Transportation (IDOT) and many Iowa counties and cities are participating in this updating program.

FISCAL IMPACT —

The cost of this program will not exceed \$47,500. Funding is currently available in the Public Works Department's Street Maintenance Operating Budget.

RECOMMENDATION —

Approval.

BACKGROUND —

The City of Des Moines' Pavement Management System is a computerized application used in the Street Maintenance Division of the Public Works Department to assist in determining the street maintenance program. This agreement with the CTRE for pavement data collection and GIS processing will be for updating the street condition data used in the City of Des Moines' Pavement Management System.

As part of IPMP, pavement distress data is collected every two years on all federal aid routes in Des Moines (about 190 miles) at no cost to the City. It benefits the City of Des Moines greatly to have the CTRE collect and process pavement distress data on the remaining paved streets (about 500 miles) on the same collection schedule. There is great savings in having the CTRE handle the pavement data collection for us because of economies of scale. The federal aid routes in Des Moines will be collected for IDOT anyway at no cost to Des Moines, so it makes sense to have the remaining paved streets collected and processed at the same time. Several surrounding communities, including West Des Moines and Ankeny, also contract

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with CTRE to have their pavement data collected. Two data collection trucks will be in the Des Moines metro area for an entire month to collect the pavement data. The resulting cost per lane mile for the pavement data collection is very low.

CTRE staff provides training on the IPMP software and the GIS tools and database. The CTRE is also available at any time for questions and help with the system. The training and help are at no cost to the City of Des Moines.

The City of Des Moines' Pavement Management System enables staff to access inventory, history, and pavement condition information to perform pavement management analysis, resulting in cost-saving informed decisions for pavement maintenance project selection and resource allocation.

