

 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date:	February 22, 2016
	Agenda Item No.	42C
	Roll Call No.	<u>16-0295</u>
	Communication No.	<u>16-074</u>
	Submitted by:	Jonathan A. Gano, P.E. Public Works Director

AGENDA HEADING:

Approving the Purchase of Deighton dTims V.9 software.

SYNOPSIS:

The City of Des Moines has worked in partnership with Iowa State University’s Institute for Transportation (InTrans) to develop the biennial pavement condition for the City’s street network since 2001. InTrans uses dTims software to develop recommended maintenance programs which result in the greatest increase in the pavement condition for the street network. Purchase of this software will allow City staff to develop a comprehensive pavement management program in-house.

FISCAL IMPACT:

Amount: \$64,125, plus \$12,000 annual maintenance fee.

Funding Source: FY 2015-16 Public Works Department Operating Budget, PW240402, Street Maintenance Fund, page 238.

ADDITIONAL INFORMATION:

In February 2015, the State of Iowa approved an increase to the Road Use Tax. This resulted in more than \$3 million in additional road use tax for the City of Des Moines to use for street maintenance. The Public Works Department plans to use that money to increase the overall pavement condition for the City.

Since 2001 Public Works has used the state contract and license for an older version of Deighton’s dTims software. The dTims software is used to determine the most cost effective use of street maintenance funds. The software will review the entire street network and the maintenance needs of each street. Then the software will run multiple scenarios to determine which maintenance activities will have the largest increase in overall City pavement condition. The software will output a recommended annual street maintenance program with the greatest increase in Citywide pavement condition for the funds available.

InTrans, a division of Iowa State University, has been running limited scenarios for the City since 2005. With this software, it will be more efficient for the Public Works Department to develop the scenarios for the City street network. This will allow Public Works to determine the most cost effective maintenance methods to utilize the additional road use tax dollars.

Engineering and Research International, Inc, consultant on the Arterial Roadway Pavement Rehabilitation Evaluation project agrees Deighton's dTims v.9 should be purchased to manage the City's pavement maintenance.

Pavement management software will improve the City's lifecycle modeling. Money will not be spent on less effective overlays if a street should be reconstructed. The software will also identify when it is appropriate to repeat an overlay as an effective pavement maintenance solution. This software will allow more proactive maintenance of streets reducing potholes and intermediate maintenance needs.

The dTims software will also provide a trend of the maintenance funds needed to maintain or improve the overall pavement condition of the City. This is critical to identify future funding needs. In the 2013 Resident Satisfaction Survey, more than 50% of residents surveyed were neutral or dissatisfied with the condition of the major street and streets in their neighborhoods. Appropriate funding of the maintenance needs identified with this software will improve the residents' satisfaction with the City of Des Moines

PREVIOUS COUNCIL ACTION(S): NONE

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

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