

Memorandum



CITY OF DALLAS

DATE October 9, 2009

TO Members of the Transportation and Environment Committee:
Linda L. Koop (Chair), Sheffie Kadane (Vice Chair), Jerry Allen, Tennell Atkins, Carolyn R. Davis, Angela Hunt, Delia Jasso, Pauline Medrano, Ron Natinsky

SUBJECT Draft Agenda Item #29 for the October 14, 2009 City Council Briefing

SUBJECT

Authorize an amendment to the Interlocal Agreement with the North Central Texas Council of Governments for the purchase of digital aerial orthophotography of the areas in and around the City of Dallas to include the acquisition of additional and updated two-dimensional datasets derived from 2009 aerial photography - Not to exceed \$422,250, from \$39,502 to \$461,752 - Financing: Stormwater Drainage Management Funds

BACKGROUND

The City of Dallas has participated with the North Central Texas Council of Governments (NCTCOG) to obtain digital orthophotography since 1990. The City's Geographic Information System (GIS) has archived digital orthophotography from 1995, 1997, 2000, 2003, 2007 and 2009 derived from Interlocal Agreements between the City of Dallas and NCTCOG.

Council Resolution No. 09-0301, dated January 28, 2009, authorized the City Manager to enter into an Interlocal Agreement with the North Central Texas Council of Governments (NCTCOG) for the purchase of digital aerial orthophotography of the areas in and around the City of Dallas, in an amount not to exceed \$39,502. This amendment will allow the City of Dallas to utilize the 2009 NCTCOG orthoimagery to update the planimetric data captured under the 2008 NCTCOG Planimetric Project and capture the new features necessary to support production of the impervious data. The enhanced impervious surface layer will capture pathways greater than 36 inches wide and surface areas greater than 15 square feet. Attribute data will be assigned to all structures, impervious surfaces, and water features, creating a more accurate representation of pervious and impervious surfaces. The project will result in two GIS layers; one for buildings and streets and the other for impervious surfaces beyond basic planimetrics.

The new parcel data will be graphically adjusted parcel-by-parcel to align each parcel with visible property boundary features. The new data layers will enhance data from the Dallas Central Appraisal District for storm drainage management fund billing.

ESTIMATED SCHEDULE OF PROJECT

Begin Project	November 2009
Complete Project	May 2010

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

Authorized an Interlocal Agreement with NCTCOG for elevation contours on September 27, 2000, by Resolution No. 00-2946.

Authorized an Interlocal Agreement with NCTCOG for digital ortho map acquisition on February 12, 2003, by Resolution No. 03-0635.

Authorized an Interlocal Agreement with NCTCOG for digital planimetrics data on August 11, 2004, by Resolution No. 04-2314.

Authorized an Interlocal Agreement with NCTCOG for digital aerial orthophotography on August 24, 2005, by Resolution No. 05-2481.

Authorized an Interlocal Agreement with NCTCOG for digital aerial orthophotography on June 13, 2007, by Resolution No. 07-1760.

Authorized an amendment to acquire additional data for elevation contours and planimetrics on September 26, 2007, by Resolution No. 07-2832.

Authorized an Interlocal Agreement with NCTCOG for digital aerial orthophotography on January 28, 2009, by Resolution No. 09-0301.

FISCAL INFORMATION

Stormwater Drainage Management Funds - \$422,250

Please let me know if you have any questions.



Jiff A. Jordan, P.E.
Assistant City Manager

- c: The Honorable Mayor and Members of the City Council
Mary K. Suhm, City Manager
Thomas P. Perkins, Jr., City Attorney
Deborah Watkins, City Secretary
Craig Kinton, City Auditor
Judge C. Victor Lander, Administrative Judge
Ryan S. Evans, First Assistant City Manager
A.C. Gonzalez, Assistant City Manager
Forest E. Turner, Assistant City Manager
David Cook, Chief Financial Officer
Jeanne Chipperfield, Director, Financial Services
Edward Scott, Director, Controller's Office
Helena Stevens-Thompson, Assistant to the City Manager – Council Office
Rick Galceran, P.E., Director, Public Works and Transportation

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Linda Koop, Chair; Sheffie Kadane, Vice Chair; Jerry R. Allen; Tennell Atkins; Carolyn R. Davis;
Vonciel Jones Hill; Angela Hunt; Delia Jasso; Pauline Medrano, Deputy Mayor Pro Tem; Ron
Natinsky

SUBJECT Agenda Item 41, October 14, 2009 Council Agenda
East Side Water Treatment Plant Expansion to 540 MGD – Headworks and Chemical
Improvements

The East Side Water Treatment Plant was originally constructed in the 1960s as a 100 million gallons per day (MGD) water treatment plant. Major expansions in the 1970s, 1980s, and 1990s have increased the capacity to 440 MGD. It is currently the largest water treatment plant the Water Utilities Department operates and provides approximately 50% of the drinking water for the City of Dallas and its wholesale customers. Current population projections as detailed in the Long Range Water Supply Plan have predicted an increase in the total water consumption to a level which requires the plant's water treatment capacity expansion to 540 MGD. This East Side Water Treatment Plant expansion is in conjunction with the completion of the third pipeline from Lake Tawakoni which will allow full utilization of Lake Fork water.

This item is to award a construction contract to Oscar Renda Contracting for \$45,070,450. This project serves as the fifth contract in a series of seven planned construction contracts to increase the capacity of East Side Water Treatment Plant and improve treatment process. The major components of this project are a new hydraulic splitting structure (headworks) for increased capacity, new rapid mixing structures, and new or expanded chemical facilities. In addition to meeting the needs of an expanded treatment plant, key Water Quality Study recommendations are included to address existing chemical storage regulatory deficiencies. Improvements include accurate splitting of the raw water flow, enhancements to chemical mixing, improved sequencing and addition of chemical application points, new corrosion inhibitor chemical system, and real-time monitoring of water quality at multiple locations in the treatment process.

Completion of this project will help the City of Dallas meet future customer demands, future regulatory requirements, improve operational efficiency and reliability, and improve overall finished water quality at the East Side Water Treatment Plant.

Please let me know if you have any questions or require additional information.

A handwritten signature in black ink that reads "Ryan S. Evans".

Ryan S. Evans
First Assistant City Manager

c: Mary K. Suhm, City Manager
Deborah Watkins, City Secretary
Thomas P. Perkins Jr., City Attorney
Craig Kinton, City Auditor
David K. Cook, Chief Financial Officer
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Forest Turner, Assistant City Manager
Jeanne Chipperfield, Director, Office of Financial Services
Edward Scott, City Controller
Helena Stevens-Thompson, Assistant to the City Manager
Jo M. (Jody) Puckett, P.E., Director, Dallas Water Utilities