

AN ORDINANCE 2008 - 03 - 20 - 0209

**APPROPRIATING \$23,960,000.00 IN CERTIFICATES OF OBLIGATION FUNDS THAT WERE SOLD IN NOVEMBER 2007 AND \$5,920,528.00 IN ADVANCED TRANSPORTATION DISTRICT (ATD) REVENUES TO FUND THE TRAFFIC SIGNAL SYSTEM MODERNIZATION/ SYNCHRONIZATION CAPITAL PROJECT.**

\* \* \* \* \*

**WHEREAS**, the City Council approved the Traffic Signal System Modernization/Synchronization (TSSM) Program through the adoption of the FY 2007-2008 Budget on September 13, 2007.; and

**WHEREAS**, this Program is a \$33.29 million, five-year traffic signal system improvement project that consists of developing and implementing a comprehensive communications network, upgrading of existing traffic signal system including software and controller hardware, and the development of optimal timing plans for approximately 1,200 signals; and

**WHEREAS**, the funding for this Program consists of \$6.49 million for Advanced Transportation District revenues, \$23.96 million in Certificates of Obligation supported by ATD revenues and approximately \$2.84 million and Federal Highway Administration funds; and

**WHEREAS**, this Ordinance will appropriate \$23,960,000.00 in Certificates of Obligation funds and \$5,920,528.00 in Advanced Transportation District funds for the completion of this Project; and

**WHEREAS**, this Ordinance will eliminate the need for separate council action for the sole purpose of appropriating funds for these agreements and will assist in ensuring procurement of services, materials and equipment; **NOW THEREFORE**,

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:**

**SECTION 1.** The amount of \$23,960,000.00 in Certificate of Obligation funds and \$5,920,528.00 in Advanced Transportation District Funds is hereby appropriated for the Traffic Signal System Modernization/Synchronization Capital Project.

**SECTION 2.** The following financial adjustments are hereby authorized to effect this Ordinance:

- a) The amount of \$23,960,000.00 is appropriated in SAP Fund 43902027, 2007 CO Streets Improvements, SAP WBS CO-20780-01-01-10, SAP GL account 6102100 – Interfund Transfer out entitled Transfer to 23-01085-90-01. The amount of \$23,960,000.00 is authorized to be transferred to SAP Fund 43099000.
- b) The budget in SAP Fund 43099000, SAP Project Definition 23-01085, Traffic System Modernization/Synchronization, shall be revised by increasing SAP WBS element 23-01085-90-01 entitled Trf Fr CO-20780-01-01-10, SAP GL account 6101100 – Interfund Transfer In, by the amount \$23,960,000.00.
- c) The amount of \$5,920,528.00 is appropriated in SAP Fund 29084000, Advanced Transportation District, SAP Internal Order #390000000663, SAP GL account 6102100 – Interfund Transfer out

entitled Transfer to 23-01085-90-02. The amount of \$5,920,528.00 is authorized to be transferred to SAP Fund 43099000.

- d) The budget in fund 43099000, SAP Project Definition 23-01085, Traffic System Modernization/Synchronization, shall be revised by increasing SAP WBS Element 23-01085-90-02 entitled Trf Fr I/O# 3900000000663, SAP GL Account 6101100 – Interfund Transfer In, by the amount \$5,920,528.00.
- e) The amount of \$5,501,622.00 is appropriated in SAP Fund 43099000, Certificates Of Obligation Capital Projects, SAP Project Definition 23-01085, Traffic System Modernization/Synchronization, SAP WBS Element 23-01085-01-02, entitled Design Costs, SAP GL Account 5201040.
- f) The amount of \$20,133,943.00 is appropriated in SAP Fund 43099000, Certificates Of Obligation Capital Projects, SAP Project Definition 23-01085, Traffic System Modernization/Synchronization, SAP WBS Element 23-01085-05-02-01, entitled City Construction, SAP GL Account 5201140.
- g) The amount of \$4,244,963.00 is appropriated in SAP Fund 43099000, Certificates Of Obligation Capital Projects, SAP Project Definition 23-01085, Traffic System Modernization/Synchronization, SAP WBS Element 23-01085-05-03, entitled Construction Contingency, SAP GL Account 5201040.

**SECTION 3.** The financial allocations in this Ordinance are subject to approval by the Director of Finance, City of San Antonio. The Director of Finance may, subject to concurrence by the City Manager, or the City Manager’s designee, correct allocation to specific SAP Fund Numbers, SAP Project Definitions, SAP WBS Elements, SAP Internal Orders, SAP Fund Centers, SAP Cost Centers, SAP Functional Areas, SAP Funds Reservation Document Numbers, and SAP GL Accounts as necessary to carry out the purpose of this Ordinance.

**SECTION 4** This Ordinance shall take effect on the tenth day after passage.

**PASSED AND APPROVED** this 20th day of March, 2008.



M A Y O R

**PHIL HARDBERGER**

ATTEST:

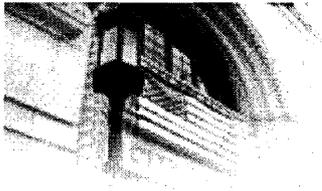


City Clerk

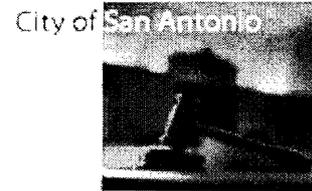
APPROVED AS TO FORM:



City Attorney



Request for  
**COUNCIL**  
ACTION



### Agenda Voting Results - 4

<b>Name:</b>	4						
<b>Date:</b>	03/20/2008						
<b>Time:</b>	09:56:12 AM						
<b>Vote Type:</b>	Motion to Approve						
<b>Description:</b>	An Ordinance appropriating \$23,960,000.00 in Certificates of Obligation funds that were sold in November 2007 and \$5,920,528.00 in Advanced Transportation District (ATD) revenues to fund the Traffic Signal System Modernization/Synchronization capital project. [Jelynn LeBlanc Burley, Deputy City Manager; Majed Al-Ghafry, Director, Public Works]						
<b>Result:</b>	Passed						
Voter	Group	Not Present	Yea	Nay	Abstain	Motion	Second
Phil Hardberger	Mayor		x				
Mary Alice P. Cisneros	District 1		x				x
Sheila D. McNeil	District 2	x					
Jennifer V. Ramos	District 3	x					
Philip A. Cortez	District 4		x				
Lourdes Galvan	District 5		x				
Delicia Herrera	District 6		x				
Justin Rodriguez	District 7		x				
Diane G. Cibrian	District 8		x			x	
Louis E. Rowe	District 9		x				
John G. Clamp	District 10		x				

CITY OF SAN ANTONIO

**Traffic Signal System  
Modernization/Synchronization (TSSM)**

**City Council  
March 20, 2008**

Traffic Signal System Modernization/Synchronization



## Traffic Signal System Modernization/Synchronization

- \$33.3 million traffic signal system modernization/synchronization program to be implemented in up to five years. Funding includes Certificates of Obligations, Advanced Transportation District (ATD) and Federal Grants.
- **Program Goals:**
  1. To optimize flow of traffic.
  2. To reduce traffic delays.
  3. To provide for real time troubleshooting.
  4. To enable real time event management.
  5. To work with suburban communities and TxDOT to coordinate their signals with the City of San Antonio's signals.

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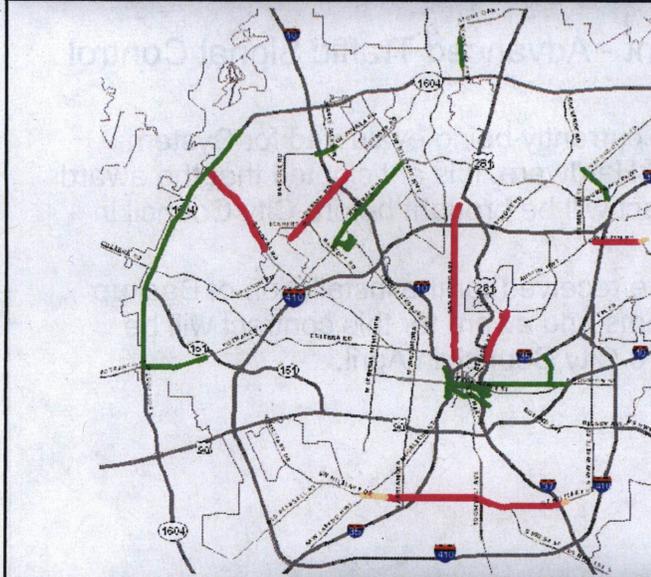
## Traffic Signal System Modernization/Synchronization

Three initiatives to be implemented concurrently

- **Comprehensive Communications Network**
  - Provide dedicated communications links (via City fiber and wireless transmission) to support current and future needs. ITSD is leading this effort with the Public Works Department serving as the primary end user.
- **Advanced Traffic Signal Control System**
  - Provides the flexibility necessary to implement complex traffic signal timing plans and to monitor the traffic signal system's operation. The Public Works Department is leading this effort.
- **Traffic Signal Coordination**
  - Collection and analysis of traffic data for each of the 1,200 traffic signals in order to develop and implement the best signal timing plan. The Public Works Department is leading this effort.

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## Traffic Signal System Modernization/Synchronization



Phase I Implementation will address coordination for 250 signals.

- █ Highlighted Corridors
- █ Additional Phase I Corridors

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## Traffic Signal System Modernization/Synchronization

### Status of Phase I Implementation:

- 1st Component - Comprehensive Communications Network
  - Initial deployment of fiber optics and wireless communications has been completed in the downtown area.
    - Area will serve as “proof of concept” for overall network
      - 34 Traffic Signals will be connected through fiber or wireless communications
  - Engineering design for the overall network is on-going and ITSD anticipates build out of backhaul ring to begin in May of 2008 and communications to the 250 traffic signals identified in Phase I to be connected by September 1, 2008.

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## Traffic Signal System Modernization/Synchronization

- **2<sup>nd</sup> Component - Advanced Traffic Signal Control System**
  - Two bids are currently being evaluated for System Software and Hardware. It is anticipated that the award for this contract will be brought before City Council in May 2008.
  - Two bids were received for the installation of Backup Battery Systems and award for this contract will be brought before City Council in April.

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## Traffic Signal System Modernization/Synchronization

- **3<sup>rd</sup> Component - Traffic Signal Coordination**
  - Data has been collected for 198 locations and will be distributed among the 3 engineering firms being considered today for Indefinite Delivery Contracts. These firms will analyze the data and develop the signal timing plans to be implement when the new traffic signal controllers are deployed.
  - Data gathered includes: traffic volumes, turning movement counts, photos of each intersection's approaches, and sketches with key measurements.
  - Signal timing plans for the traffic signals identified in Phase I are anticipated to be completed by September 30, 2008.

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CITY OF SAN ANTONIO

**Traffic Signal System  
Modernization/Synchronization (TSSM)**

**City Council  
March 20, 2008**