

**CITY OF SAN ANTONIO  
PUBLIC WORKS DEPARTMENT  
CITY COUNCIL AGENDA MEMORANDUM**

**TO:** Sheryl Sculley, City Manager

**FROM:** Thomas G. Wendorf, P.E., Director of Public Works

**SUBJECT:** Two-year Street Maintenance Program

**DATE:** April 6, 2006

**SUMMARY AND RECOMMENDATIONS**

This council action authorizes five contracts and appropriates certain funds in connection with the FY 2006 & FY 2007 Street Maintenance Program, accepts construction bids and sets up budgets for project contingency, materials testing, installation of Video Image Vehicle Detection System (VIVDS) and advertising and printing expenses for a total program amount of \$40,568,466.96 effective immediately upon passage by eight (8) affirmative votes. The following table summarizes the Street Maintenance Program by application type.

| <i><b>FY 2006 &amp; FY 2007 Street Maintenance Program<br/>by Application Type</b></i> |                             |                           |                             |
|--|-----------------------------|---------------------------|-----------------------------|
| <b>Item</b>  | <b>Application Type</b>     | <b>Treatment Category</b> | <b>Total Project Amount</b> |
| a  | Asphalt Recycling & Overlay | Structural                | \$ 6,898,163.59             |
| b  | Hot Paver-Laid Microsurface | Structural                | \$ 9,325,746.13             |
| c  | Asphalt Overlay             | Structural                | \$ 20,191,454.44            |
| d  | Slurry Seal                 | Non-Structural            | \$ 1,633,282.58             |
| e  | Micro-Surface               | Non-Structural            | \$ 2,519,820.22             |
| Total  |                             |                           | \$ 40,568,466.96            |

This council action authorizes the City Manager or Designee to enter into an interlocal agreement with Bexar County to allow the County to be added as a third party to one or more of the streets contracts above; and with SAWS and CPS Energy to advance the City funds for adjustments that will be made to their existing infrastructure under these contracts.

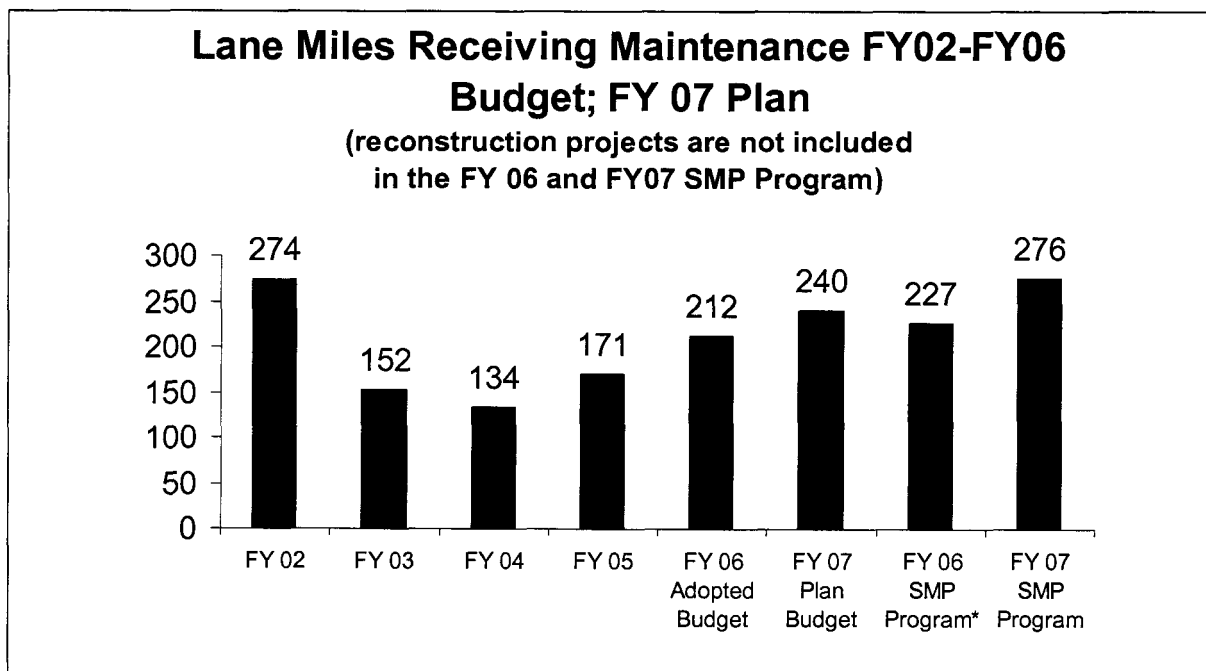
Staff recommends approval of this ordinance.

## **BACKGROUND INFORMATION**

Consistent with the City Council's direction to develop a two-year street maintenance program, staff developed a two-year contractual street maintenance bidding strategy. Rather than bid in annual increments, funds budgeted in FY 2006 and funds planned in FY 2007 were combined into a two-year Street Maintenance Program that allowed the City to lock in prices over the two budget cycles.

The Adopted 2006 Budget allocated additional resources to the Street Maintenance Fund to provide for additional lane miles of pavement and to offset higher street material costs. With the two-year bid strategy, bids came in at budget and these unit prices will remain constant for the life of the program. Additional benefits to the two-year strategy included flexibility to schedule similar street applications on a larger scale, and provided timesavings in bid preparation and project identification over the two-year period. By comparison, the 2005 Street Maintenance Program, bid for a single year, received bid prices that were higher due to increased material costs.

During the 2006 Budget process, it was estimated that continuing with the annual bidding strategy the average cost per lane mile would be \$84,829.67. The cost per lane mile using the two-year bid strategy resulted in an average of \$74,203.56 per lane mile (not including reconstruction application); a savings of \$10,626.12 per lane mile. In terms of additional lane miles receiving maintenance, this savings translates to an additional 70 lane miles. The following table shows the increase in lane miles with comparing the FY 2006 budget numbers to the actual bid.



*\*In FY 06 there will be 19 lane miles receiving maintenance in connection with the 2005 Street Maintenance Program, this number is not included in the FY 06 SMP Program above.*

The FY 2006 & FY 2007 Street Maintenance Program as included in this document does not include the cost nor the number of lane miles that will be delivered with the reconstruction street application. Staff is in the process of designing the reconstruction projects and is estimating that the design of these projects will be completed by the end of May 2006. Once projects are designed and bid, staff will bring back a project award recommendation to council.

The following table shows the estimated number of lane miles to be delivered per application. It is estimated that this program will be completed by September 2007.

| <i><b>FY 2006 &amp; FY 2007 Lane Miles Receiving Maintenance and Estimated Completion Dates</b></i> |                             |                           |                                       |
|---|-----------------------------|---------------------------|---------------------------------------|
| <b>Item</b>   | <b>Application Type</b>     | <b>Treatment Category</b> | <b>Estimated # of lane miles (LM)</b> |
| a   | Asphalt Recycling & Overlay | Structural                | 93.0 LM                               |
| b   | Hot Paver-Laid Microsurface | Structural                | 135.7 LM                              |
| c   | Asphalt Overlay             | Structural                | 231.8 LM                              |
| d   | Slurry Seal                 | Non-Structural            | 26.7 LM                               |
| e   | Micro-Surface               | Non-Structural            | 34.5 LM                               |
| <b>Total</b>  |                             |                           | <b>521.70 LM*</b>                     |

*\*In FY 06 there will be 19 lane miles receiving maintenance in connection with the 2005 Street Maintenance Program, this number is not included in the FY 06 SMP Program above.*

This program provides for the installation of Video Imaging Vehicle Detection Systems (VIVDS) by City forces at 15 intersections. VIVDS replaces traditional in-pavement loop detectors for vehicle detection for affected intersections. Loop detectors sense a vehicle by magnetic inductance loops cut into the pavement, whereas VIVDS detects oncoming traffic by working similarly like motion detectors. The VIVDS electronically varies the green intervals of a traffic signal based on traffic demand. The use of VIVDS is cost effective in lengthening the life of street surfaces by reducing deterioration caused by saw-cutting, increases traffic safety during and after construction and are in compliance with the Right of Way Management Ordinance. SAWS and CPS Energy will be participating in this program in order to facilitate the necessary adjustments that will be made to their existing infrastructure.

In addition, this program allows for leveraging of Advanced Transportation District (ATD) funds for the installation of bus pads at eligible locations.

These street maintenance projects were advertised for construction bids in the Commercial Recorder, the San Antonio Informer, and La Prensa in December 2005 and January 2006. In addition, the announcement was made on TVSA-21 and through the SBEDA office. Plans were also available for review by potential bidders in the Public Works Office.

Bids for this project were opened on February 1, 2006. A matrix of the bid outcome and the add alternates is included herein as Attachment 1.

The Economic Development Department is reviewing the list of subcontractors on the Good Faith Effort Plan submitted by Clark Construction of Texas, Ltd. and the letter of certification is pending approval. The Economic Development Department reviewed the list of subcontractors and approved the Good Faith Effort Plan submitted by J.D. Ramming Paving Company, Ltd.

### **POLICY ANALYSIS**

Approval of this ordinance will be an implementation of City Council policy to provide a two-year Street Maintenance program, for FY 2006 & FY 2007.

### **FISCAL IMPACT**

Funds in the amount of \$40,568,466.96 are available and planned from various funding sources as indicated in Attachment 3 – FY 2006 & FY 2007 Street Maintenance Program Budget Breakdown.

Funds in the amount of \$2,179,520.68 are available from FY 2006 ATD funds, \$1,500,000.00 are available for the FY 2005 Street Maintenance Fund carry forward, \$14,098,377.28 are available in the current FY 2006 Street Maintenance Fund and funds in the amount of \$21,734,319.00 are included in the FY 2007 plan budget and are contingent upon approval of city council for FY 2007 Budget Process. Funds in the amount of \$996,250.00 will be funded by SAWS and \$60,000.00 will be funded by CPS; for a total ordinance amount of \$40,568,466.96.

The Contractual Street Maintenance Program was outlined in the FY 2006 Budget and reflected a total of \$38,468,638.00. After this Council action, there will be a balance of \$2,635,941.72 which will be used for reconstruction projects and other street maintenance projects. These projects will be brought forward for City Council approval at a later date.

This ordinance is also a declaration of the City's official intent to reimburse itself from the proceeds derived from the sale of the City of San Antonio, Certificates of Obligation, Series 2006 for any authorized expenditures from any lawfully available funds of the City. The appropriations above are contingent upon the sale of the City of San Antonio, Certificates of Obligation, Series 2006 for the FY 2006 & FY 2007 Street Maintenance Program.

### **COORDINATION**

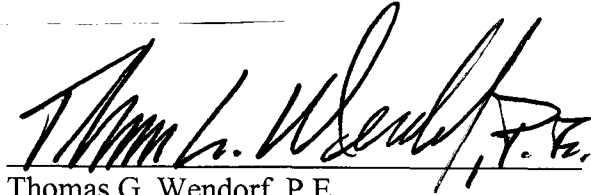
This request for ordinance has been coordinated with the Office of Management and Budget, Finance Department and the Economic Development Department.

## SUPPLEMENTARY COMMENTS

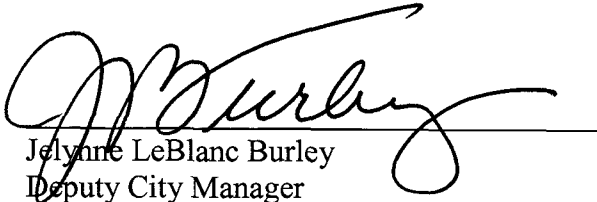
This construction contract was developed utilizing the formal competitive bid process; therefore, a Discretionary Contracts Disclosure Form is not required.

## ATTACHMENTS

1. Bid tabulation summary
2. FY 2006 & FY 2007 Street Maintenance Program Budget Breakdown
3. FY 2006 & FY 2007 Street Maintenance Program Cost Breakdown

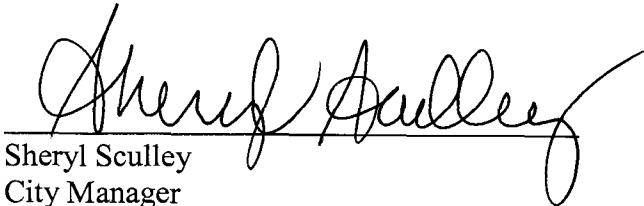


Thomas G. Wendorf, P.E.  
Director of Public Works



Jelynn LeBlanc Burley  
Deputy City Manager

Approved for Council Consideration:



Sheryl Sculley  
City Manager

**ATTACHMENT 1**  
**2006/2007 STREET MAINTENANCE CONTRACT**  
**BIDS SUMMARY**

| Contract                  | Bidder                                    | Base Bid             | Alternates Added    | Total Contract Base Amount       |
|---------------------------|---|----------------------|---------------------|----------------------------------|
| ASPHALT RECYCLING OVERLAY | <i>Clark Construction of Texas, Ltd.</i>  | <b>6,263,692.98</b>  | <b>156,400.00</b>   | <b>6,420,092.98</b> <sup>1</sup> |
|                           | SAC                                       | 7,402,054.35         | 156,400.00          | 7,558,454.35                     |
|                           | Cutler Construction                       | 8,240,112.65         | 252,450.00          | 8,492,562.65                     |
| HOTPAVER LAID             | <i>Clark Construction of Texas, Ltd.</i>  | <b>8,127,333.15</b>  | <b>218,100.00</b>   | <b>8,345,433.15</b> <sup>2</sup> |
|                           | J.D. Ramming Paving Company., Ltd.        | 9,923,592.40         | 447,150.00          | 10,370,742.40                    |
| ASPHALT OVERLAY           | <i>Clark Construction of Texas, Ltd.</i>  | <b>18,420,505.15</b> | <b>612,500.00</b>   | <b>19,033,005.15</b>             |
|                           | J.D. Ramming Paving Company., Ltd.        | 23,673,763.10        | 67,500.00           | 23,741,263.10                    |
|                           | Texas Sterling                            | 24,955,657.70        | 899,600.00          | 25,855,257.70                    |
| SLURRY SEAL               | <i>J.D. Ramming Paving Company., Ltd.</i> | <b>592,567.00</b>    | <b>1,056,577.00</b> | <b>1,649,144.00</b> <sup>3</sup> |
|                           | Clark Construction of Texas, Ltd.         | 757,495.00           | 1,383,052.98        | 2,140,547.98                     |
| MICROSURFACE              | <i>Clark Construction of Texas, Ltd.</i>  | <b>793,549.00</b>    | <b>1,582,627.26</b> | <b>2,376,176.26</b>              |

<sup>1</sup> Contract Base Amount (\$6,420,092.98) is increased by a Field Alteration (\$24,966.54) for the Ordinance Contract Amount of \$6,445,59.52.

<sup>2</sup> Contract Base Amount (\$8,345,433.15) is increased by a Field Alteration (\$445,558.44) for the Ordinance Contract Amount of \$8,790,991.59.

<sup>3</sup> Contract Base Amount (\$1,649,144.00) is decreased by a Field Alteration (\$108,701) for the Ordinance Contract Amount of \$1,540,443.00

## ATTACHMENT 2

### FY 2006 & FY 2007 STREET MAINTENANCE PROGRAM BUDGET BREAKDOWN

| Funding Source                                | Asphalt Recycling & Overlay | Hot Paver-Laid Microsurface | Asphalt Overlay         | Slurry Seal            | Microsurface           | Total Budget            |  | FY 2006 Estimated Expenditures | FY 2007 Estimated Expenditures |
|---|-----------------------------|-----------------------------|-------------------------|------------------------|------------------------|-------------------------|--|--------------------------------|--------------------------------|
| ATD Funds                                     | \$ 333,525.69               | \$ 422,109.98               | \$ 1,423,885.01         | \$ -                   | \$ -                   | \$ 2,179,520.68         |  | \$ 2,179,520.68                | \$ -                           |
| Street Maintenance Fund (FY 05 Carry forward) | \$ 376,878.27               | \$ 257,118.59               | \$ 866,003.14           | \$ -                   | \$ -                   | \$ 1,500,000.00         |  | \$ 1,500,000.00                |                                |
| Street Maintenance Fund (FY 06 Budget)        | \$ 2,623,121.73             | \$ 3,342,881.41             | \$ 4,048,521.34         | \$ 1,619,332.58        | \$ 2,464,520.22        | \$ 14,098,377.28        |  | \$ 13,729,025.03               | \$ 369,352.25                  |
| Street Maintenance Fund (FY 07 Plan Budget)   | \$ 3,408,237.90             | \$ 5,085,536.15             | \$ 13,240,544.95        | \$ -                   | \$ -                   | \$ 21,734,319.00        |  | \$ -                           | \$ 21,734,319.00               |
| SAWS  | \$ 146,400.00               | \$ 208,100.00               | \$ 602,500.00           | \$ 13,950.00           | \$ 25,300.00           | \$ 996,250.00           |  | \$ 398,500.00                  | \$ 597,750.00                  |
| CPS   | \$ 10,000.00                | \$ 10,000.00                | \$ 10,000.00            | \$ -                   | \$ 30,000.00           | \$ 60,000.00            |  | \$ 24,000.00                   | \$ 36,000.00                   |
| <b>Total Ordinance Amount</b>                 | <b>\$ 6,898,163.59</b>      | <b>\$ 9,325,746.13</b>      | <b>\$ 20,191,454.44</b> | <b>\$ 1,633,282.58</b> | <b>\$ 2,519,820.22</b> | <b>\$ 40,568,466.96</b> |  | <b>\$ 17,831,045.71</b>        | <b>\$ 22,737,421.25</b>        |

# ATTACHMENT 3

## FY 2006 & FY 2007 STREET MAINTENANCE PROGRAM COST BREAKDOWN

| Payee                            | Asphalt Recycling & Overlay | Hot Paver-Laid Microsurface | Asphalt Overlay         | Slurry Seal            | Microsurface           | Total Budget            |  | FY 2006 Estimated Expenditures | FY 2007 Estimated Expenditures |
|----------------------------------|-----------------------------|-----------------------------|-------------------------|------------------------|------------------------|-------------------------|--|--------------------------------|--------------------------------|
| Clark Construction of Texas, Ltd | \$ 6,445,059.51             | \$ 8,790,991.59             | \$ 19,033,005.15        | \$ -                   | \$ 2,376,176.27        | \$ 36,645,232.52        |  | \$ 16,000,000.00               | \$ 20,645,232.52               |
| J.D. Ramming                     | \$ -                        | \$ -                        | \$ -                    | \$ 1,540,443.00        | \$ -                   | \$ 1,540,443.00         |  | \$ 1,540,443.00                |                                |
| Project Contingency              | \$ 314,432.98               | \$ 428,644.58               | \$ 921,025.26           | \$ 76,324.65           | \$ 116,043.81          | \$ 1,856,471.28         |  | \$ 76,324.65                   | \$ 1,780,146.63                |
| Material Testing                 | \$ 62,886.60                | \$ 85,728.92                | \$ 184,205.05           | \$ 15,264.93           | \$ 23,208.76           | \$ 371,294.26           |  | \$ 148,517.70                  | \$ 222,776.56                  |
| City Forces (VIVDS)              | \$ 74,534.50                | \$ 19,131.04                | \$ 51,968.98            | \$ -                   | \$ 3,141.38            | \$ 148,775.90           |  | \$ 59,510.36                   | \$ 89,265.54                   |
| Printing & Reproduction          | \$ 1,250.00                 | \$ 1,250.00                 | \$ 1,250.00             | \$ 1,250.00            | \$ 1,250.00            | \$ 6,250.00             |  | \$ 6,250.00                    | \$ -                           |
| <b>Total Ordinance Amount</b>    | <b>\$ 6,898,163.59</b>      | <b>\$ 9,325,746.13</b>      | <b>\$ 20,191,454.44</b> | <b>\$ 1,633,282.58</b> | <b>\$ 2,519,820.22</b> | <b>\$ 40,568,466.96</b> |  | <b>\$ 17,831,045.71</b>        | <b>\$ 22,737,421.25</b>        |