



Metropolitan
Transportation
Authority

One Gateway Plaza
Los Angeles, CA
90012-2952

CONSTRUCTION COMMITTEE
FEBRUARY 20, 2002

- PROJECT:** EASTSIDE CORRIDOR LIGHT RAIL PROJECT
SAN FERNANDO VALLEY RAPID BUS PROJECT
MID-CITY/WILSHIRE RAPID BUS PROJECT
CAPITAL PROJECTS
- CONTRACT:** PM022, PROJECT MANAGEMENT ASSISTANCE,
URS CORPORATION - PRIMARY CONTRACTOR
PM023, PROJECT MANAGEMENT ASSISTANCE,
CARTER BURGESS INC. - SECONDARY
CONTRACTOR
- ACTION:** CONTRACT MODIFICATIONS IN THE AMOUNT NOT
TO EXCEED \$1,718,295 AND APPROVE AN INCREASE
IN AUTHORIZATION FOR EXPENDITURE IN THE
AMOUNT OF \$1,718,295

RECOMMENDATION

- A. Authorize the Chief Executive Officer to execute Change Order No. 3 to Contract Work Order (CWO) No. 1, to Contract No. PM022, Project Management Assistance (PMA), with URS Corporation to provide support services for the Eastside Corridor Light Rail Transit Project from March 1, 2002, to June 30, 2002, in the amount not-to-exceed \$495,418 increasing the CWO value from \$214,470 to \$709,888; and
- B. Authorize the Chief Executive Officer to execute Change Order No. 2 to Contract Work Order (CWO) No. 6, to Contract No. PM022, Project Management Assistance (PMA), with URS Corporation to provide support services for Capital Projects from March 1, 2002, to June 30, 2002, in the amount not-to-exceed \$891,713 increasing the CWO value from \$291,303 to \$1,183,016; and
- C. Authorize the Chief Executive Officer to execute Change Order No. 2 to Contract Work Order (CWO) No. 2, to Contract No. PM023 Project Management Assistance (PMA), with Carter Burgess Inc. to provide support services for the San Fernando Bus Rapid Transit Project from March 1, 2002, to June 30, 2002, in the amount not-to-exceed \$331,164 increasing the CWO value from \$294,380 to \$625,544; and
- D. Approve an increase in the Authorization for Expenditure (AFE) to Contract No. PM022 and Contract No. PM023 to provide funding for the identified

Change Orders in the amount of \$1,718,295 increasing the current total AFE amount from \$1,016,172 to \$2,734,467.

Within Construction Committee authority: Yes No N/A

BACKGROUND

Project Management Assistance (PMA) Contracts provide cost effective, specialized, highly qualified professional expertise such as continued value engineering, cost reduction initiatives, claims avoidance studies, independent review and analysis of design work performed by others, quality assurance, testing, safety certifications and systems assurance, project management support, and specialized engineering not available through MTA staff.

Staff will prepare specific scopes of work for each task, considering the information available and applicable time constraints on the performance of the work. While some types of activities may be anticipated, the exact timing of needed support and expertise is often not predictable and may require immediate attention with little notice. Because of the unpredictability of required support, a separate CWO has been issued for the PMA needs for each of the Projects. The CWO separates the funding into manageable parts that allow for efficient cost control and budget management by the MTA Project Managers. Project Managers can request specific work for each task, as long as they stay within the total MTA Board authorized funding limit. This process provides the staff with the ability to initiate PMA tasks quickly without the need for individual Board actions that would add costly delays and administrative costs to the process. A summary of the PMA support planned under the recommendations can be found in Attachment 2 entitled Summary Of Required PMA Support.

FINANCIAL IMPACT

| | |
|--------------------------------------|--------------|
| Original Contract | \$ 700,000 |
| Current Obligated Contract/CWO Value | \$1,016,172 |
| This Action | \$ 1,718,295 |
| New Cumulative Contract Value | \$ 2,734,467 |

Funding of \$608,474 for Project Management Assistance (PMA) services to support Capital Projects (CP) PMA services is included in the FY02 budget in Cost Center 8510, Construction Management, under Project Number 800092, Professional Services. Funding of \$41,623 to provide PMA services for the LA Rail Car Project is included in Cost Center 8510, Construction Management, under Project Number 800150, Professional Services. Funding of \$241,616 to provide PMA services for the Metro Green Line is included in Cost Center 8510, Construction Management, under Project Number 800023, Professional Services. Funding of \$495,418 to provide PMA services for the Eastside Corridor Light Rail Transit Project is included in Cost Center 4320, Pedestrian/Urban Design Transit Link, under Project Number 800088, Professional Services. Funding of \$331,164 to provide PMA

services for the San Fernando Valley Bus Rapid Transit Project is included in FY 02 budget in Cost Center 4350, Rail Bike Joint Development Planning, under Project Number 800112, Professional Services.

Since this is a multi-year contract, the cost center manager and Executive Officer will be accountable for budgeting the cost in future years, including any option exercised. This recommended action does not impact the MTA Fiscal Year Budget or the Sources of Funds in the fiscal year.

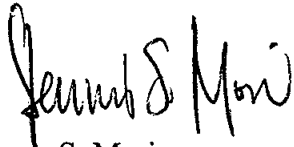
ALTERNATIVES CONSIDERED

The MTA Board may reject the recommended actions and direct staff to recruit and hire additional staff necessary for the needed specialized expertise for full time positions. Hiring permanent MTA staff, in lieu of utilizing "as needed" PMA support, to deal with peaks and valleys in workloads is not cost effective. This would also require an extensive hiring effort to provide additional permanent staff to meet these specialized demands, which does not guarantee that certain types of expertise may be immediately available.

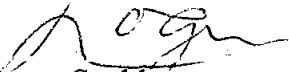
ATTACHMENTS

| | |
|----------------|--|
| Attachment A | Procurement Summary |
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| Attachment A-2 | List Of Contractors/Subcontractors |
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| Attachment 2A | Required PMA Support For Major Transit Corridor Projects |
| Attachment 2B | Required PMA Support For Safety Program |
| Attachment 2C | Required PMA Support For Other Transit Projects |
| Attachment 2D | Required PMA Support For Capital Projects |

Prepared by: John Doidge, Contract Administrator
Ivan Page, Contract Administration Manager



Dennis S. Mori
Executive Officer, Construction



Roger Snoble
Chief Executive Officer

**BOARD REPORT ATTACHMENT A
PROCUREMENT SUMMARY
ACTION**

**CONTRACT MODIFICATIONS IN THE AMOUNT NOT TO EXCEED
\$2,104,610 AND APPROVE AN INCREASE IN AUTHORIZATION FOR
EXPENDITURE IN THE AMOUNT OF \$2,104,610**

| | | | |
|----|---|--|--|
| 1. | Contract Number: PM022 (Primary), PM023 (Secondary) | | |
| 2. | Recommended Vendors: URS Corp. (Primary), Carter & Burgess Inc. (Secondary) | | |
| 3. | Cost/Price Analysis Information: | | |
| | A. Bid/Proposed Price: PM022 CWO 1 CO No. 3 \$ 517,946 PM022 CWO 6 CO No. 1 \$1,788,181 PM023 CWO 2 CO No. 2 \$ 331,164 | Recommended Negotiated Price: \$ 495,418 \$ 891,713 \$ 331,164 | |
| | B. Details of Significant Variances: N/A | | |
| 4. | Contract Type: Labor Hour Contract | | |
| 5. | Procurement Dates: Not Applicable To Contract Modifications | | |
| | A. Issued: N/A | | |
| | B. Advertised: N/A | | |
| | C. Pre-proposal Conference: N/A | | |
| | D. Proposals Due: N/A | | |
| | E. Pre-Qualification Completed: N/A | | |
| | F. Conflict of Interest Form Submitted to Ethics: N/A | | |
| 6. | Small Business Participation: No goal recommended | | |
| | A. Bid Goal: N/A | Date Small Business Evaluation Completed: N/A | |
| | B. Small Business Commitment: 20% | | |
| 4. | Invitation for Bid/Request for Proposal Data: Not Applicable To Contract Modifications | | |
| | Notifications Sent: N/A | Bids/Proposals Picked up: N/A | Bids/Proposals Received: N/A |
| 5. | Evaluation Information: | | |
| | A. Bidders/Proposers Names: URS Corporation PM022 Carter & Burgess Inc. PM023 | <u>Bid/Proposal Amount:</u> See 3A above. | <u>Best and Final Offer Amount:</u> N/A |
| | B. Evaluation Methodology: Price comparison | | |
| 6. | Protest Information: | | |
| | A. Protest Period End Date: N/A | | |
| | B. Protest Receipt Date: N/A | | |
| | C. Disposition of Protest Date: N/A | | |
| 7. | Contract Administrator: John K. Doidge | Telephone Number: 922-1034 | |
| 8. | Project Manager: Dennis Mori (PM022 CWO1, PM023 CWO 2) Joel Sandberg (PM022 CWO 6) | Telephone Number: 922-7238 922-7223 | |

**BOARD REPORT ATTACHMENT A-1
PROCUREMENT HISTORY
ACTION
CONTRACT MODIFICATIONS IN THE AMOUNT NOT TO EXCEED
\$2,104,610 AND APPROVE AN INCREASE IN AUTHORIZATION FOR
EXPENDITURE IN THE AMOUNT OF \$2,104,610**

A. BACKGROUND ON CONTRACTOR

Contract Nos. PM022 and PM023 are indefinite delivery, indefinite quantity, federally funded Fixed Labor Hour contracts to provide Program Management Assistance (PMA) to the MTA. The PMA Contracts provide staff augmentation support and specialty services work to Project Managers in order to maintain a cohesive transit and technical expertise for their projects.

On May 24, 2001, the MTA Board authorized initial AFE funding in the amount of \$700,000, for Transit Corridor Project Support for the period June 1, 2001, through August 31, 2001. On July 26, 2001 the MTA Board authorized initial AFE funding in the amount of \$316,172, for Capital Projects Support for the period August 1, 2001, through December 31, 2001. Staff extended the period of performance through February 28, 2002, and was able to stay within the Board approved funding.

The Primary Contractor, URS Corp. (Contract No. PM022), was determined by MTA Staff to have an organizational conflict of interest on the San Fernando Valley Bus Rapid Transit Project. This conflict required the issuance of a secondary contract, Contract No. PM023 to Carter & Burgess Inc. to provide PMA support for the San Fernando Valley Bus Rapid Transit Project.

The Project Management Assistance (PMA) Contract Nos. PM022 and No. PM023 replace the prior PMA Contract No. PM021 with Fluor Daniel Inc., which expired on May 30, 2001, and Contract No. EO110, with Booz-Allen & Hamilton Inc., which expires on February 28, 2002.

B. PROCUREMENT BACKGROUND

Based on competition, Contract No. PM022 was awarded to URS Corporation, the Primary Contractor, on June 18, 2001. Contract No. PM023 was awarded to Carter Burgess Inc., the Secondary Contractor, on June 20, 2001, to provide support in any instance where the URS Corp. would have an organizational conflict of interest. Both PMA Contracts were awarded for a three (3) year term but the current Contract Work Orders expire on February 28, 2002. The recommended actions are necessary to continue to provide professional specialized expertise and project management assistance for the on-going transit corridor projects and capital improvement projects through June 30, 2002.

Because of the unpredictability of required support, a separate Contract Work Order (CWO) is issued for the PMA needs for each of the Projects. The CWO separates the funding into manageable parts, that allow for efficient cost control and budget management by the MTA Project Managers. Project Managers can request specific work for each task, as long as they stay within the total MTA Board authorized funding limit. This process provides the staff with the ability to initiate PMA tasks quickly without the need for individual Board actions that would add costly delays and administrative costs to the process.

Staff will prepare specific scopes of work for each task, considering the information available and applicable time constraints on the performance of the work. Whenever practical, a fixed price will be negotiated for the CWO otherwise a labor hour CWO will be issued utilizing the hourly rates set forth in the contract.

C. EVALUATION OF PROPOSALS

The MTA Project Office, Office of Procurement and County Counsel have reviewed the facts underlying each change order and concur that they have been merited under the terms and conditions of the Contract and Public Utilities Code §130243. The Management Audit Services Department (MASD) has completed the required audit of these change orders and did not take exception with the cost proposals.

D. COST/PRICE ANALYSIS EXPLANATION OF VARIANCES

| CONTRACT NO. PM022, CWO-1, CWO 6 | | |
|---|---------------------|--------------------------|
| PROPOSED AMOUNT | MTA ESTIMATE | NEGOTIATED AMOUNT |
| CWO 1 \$ 517,946 | \$ 496,373 | \$ 495,418 |
| CWO 6 \$1,788,181 | \$1,792,817 | \$ 891,713 |

| CONTRACT NO. PM023, CWO-2, | | |
|-----------------------------------|---------------------|--------------------------|
| PROPOSED AMOUNT | MTA ESTIMATE | NEGOTIATED AMOUNT |
| \$ 331,164 | \$325,906 | \$ 331,164 |

The recommended total amount of \$1,387,131 for Contract No. PM022 and \$331,164 for Contract No. PM023 have been determined to be fair and reasonable based upon fact finding, clarification, a price analysis with the MTA estimate and utilization of the fixed all up labor hour rates in the basic Contract, and pre-award audit performed by Management Audit Services Department (MASD). MASD took no exceptions to the contractors proposed amounts all issues were resolved during negotiations.

**BOARD REPORT ATTACHMENT A-2
LIST OF CONTRACTORS/SUBCONTRACTORS**

CONTRACT NO. PM022

PRIME CONTRACTOR

URS CORPORATION

SMALL BUSINESS SUBCONTRACTORS

TEC MANAGEMENT CONSULTANTS, INC.
D'LEON CONSULTING ENGINEERS CORPORATION
LS GALLEGOS & ASSOCIATES INC.

OTHER SUBCONTRACTORS

BOOZ ALLEN & HAMILTON INC.

CONTRACT NO. PM023

PRIME CONTRACTOR

CARTER & BURGESS INC.

SMALL BUSINESS SUBCONTRACTORS

J.L. PATTERSON & ASSOCIATES
KABLER CONSTRUCTION SERVICES
KAL KRISHNAN CONSULTING
LENAX CONSTRUCTION SERVICES
SAFEWORK INC.
TRANSITIONAL COMPUTER TECHNOLOGY

OTHER SUBCONTRACTORS

LEWIS & ZIMMERMAN ASSOCIATES, INC.
PINNACLEONE
IBI GROUP

SMALL BUSINESS PARTICIPATION

The Small Business Diversity Unit established a 20% Disadvantaged Business Enterprise (DBE) goal for this Contract Work Order (CWO) contract. Both a primary and a secondary Project Management Assistance (PMA) Support Consultant contract were awarded. PM022 was awarded June 18, 2001, with a DBE participation goal of 20% and is approximately 5% complete. Contract No. PM023 was awarded June 20, 2001, with a DBE participation goal of 20% and is approximately 5% complete.

Both primary and secondary PMA Consultants have been issued their first payment as of January 2002. Payment to DBE subcontractors will be reported in the next reporting period.

| | |
|--|---------------------|
| Original Award Amount | \$ 700,000 |
| Relevant Contract Amount² | \$ 1,016,172 |
| Total Actual Amount Paid to Date to Prime | \$ 140,663 |

PRIMARY CONSULTANT: URS CORPORATION

| Subcontractors | % Commitment | Paid to date Attainment ¹ | Current Participation ³ | Current Status |
|-----------------------------|--------------|--------------------------------------|------------------------------------|-------------------|
| TEC Management. Consultants | CWO | 0.00% | 0.00% | Performing |
| L. S. Gallegos & Associates | CWO | 0.00% | 0.00% | To Perform |
| D'Leon Consulting Engineers | CWO | 0.00% | 0.00% | To Perform |
| TOTAL | 20% | 0.00% | 0.00% | Performing |

SECONDARY CONSULTANT: CARTER BURGESS, INC.

| Subcontractors | % Commitment | Paid to date Attainment ¹ | Current Participation ³ | Current Status |
|------------------------------|--------------|--------------------------------------|------------------------------------|-------------------|
| J. L. Patterson & Associates | CWO | 0.00% | 0.00% | To Perform |
| Kabler Construction Services | CWO | 0.00% | 0.00% | To Perform |
| Kal Krishnan Consulting | CWO | 0.00% | 0.00% | To Perform |
| Lenax Construction Services | CWO | 0.00% | 0.00% | To Perform |
| SafeWork, Inc. | CWO | 0.00% | 0.00% | To Perform |
| Transnational Computer Tech. | CWO | 0.00% | 0.00% | To Perform |
| TOTAL | 20% | 0.00% | 0.00% | Performing |

¹Current Attainment = Total Actual Amount Paid-to-Date to Subs ÷ Total Relevant Contract Amount

²Relevant Contract Amount = Original Contract Value + Contract Cost Modifications affecting DBE or SBE Scope of Work

³Current Participation = Total Actual Amount Paid-to-Date to Subs ÷ Total Actual Amount Paid-to-Date to Prime

ATTACHMENT 1
CONTRACT VALUE STATUS SUMMARY
R88 EASTSIDE LIGHT RAIL TRANSIT (ELRT)
CHANGE ORDER PM022-C0-3.00

Only shows cost allocated to R88

CONTRACTOR: URS CORPORATION /
ACTION DESCRIPTION: EXTENSION OF PMA SUPPORT TO EASTSIDE LIGHT RAIL TRANSIT (LRT) PROJECT

CUMULATIVE CONTRACT WORK ORDER VALUE STATUS

| | | | |
|----|--------------------------------|--------------|---|
| 1. | CUMULATIVE AWARD AMOUNT:[1] | \$166,366.00 | (Includes \$166,366.00 in Planned Scope Amendments) |
| 2. | PREVIOUSLY EXECUTED CHANGES: | \$48,104.00 | |
| 3. | CURRENT VALUE: (1+2) | \$214,470.00 | |
| 4. | AUTHORIZED WACN/LNTP'S (NTE): | \$0.00 | |
| 5. | OBLIGATED VALUE: (3+4) | \$214,470.00 | |
| 6. | VALUE OF THIS ACTION: | \$495,418.00 | |
| 7. | NEW VALUE (IF APPROVED): (5+6) | \$709,888.00 | |

Contract Work Order Value Status Reviewed by MTA Procurement: 

CUMULATIVE AUTHORIZATION FOR EXPENDITURE STATUS

AFE INCREASE REQUIRED/REQUESTED:

| | | | |
|-----|--|----------------|---|
| 8. | MTA APPROVED AFE: | \$214,470.00 | |
| 9. | NEW VALUE: (Line 7) | \$709,888.00 | |
| 10. | REMAINING AFE: (8-9) | (\$495,418.00) | \$495,418.00 For this action |
| 11. | OTHER PENDING CHANGES (merited) | \$0.00 | |
| 12. | REMAINING AFE VALUE (w/Changes: 10-11) | (\$495,418.00) | \$495,418.00 For all merited changes (projected cost) |
| 13. | ALLOWANCE FOR OTHER POTENTIAL CHANGES: | \$0.00 | |
| 14. | REMAINING AFE VALUE (w/Allowance: 12-13) | (\$495,418.00) | \$495,418.00 For all merited and undefined changes |

CUMULATIVE BUDGET STATUS

BUDGET VARIANCE (Initial to Current)

| | | | |
|-----|---|----------------|--|
| 15. | INITIAL BUDGET: | \$0.00 | |
| 16. | CURRENT BUDGET: | \$3,131,000.00 | \$3,131,000.00 Initial to Current Budget |
| 17. | NEW VALUE (IF APPROVED): (Line 7) | \$709,888.00 | |
| 18. | REMAINING BUDGET: (16-17) | \$2,421,112.00 | |
| 19. | OTHER PENDING CHANGES (merited) (Line 11) | \$0.00 | |
| 20. | REMAINING BUDGET w/Changes (18-19) | \$2,421,112.00 | |

Contract Budget Status Reviewed by MTA Program Control: 

DATE: 02/13/02

[1] - Award Amount includes initial award and Planned Scope Amendments

ATTACHMENT 1
CONTRACT VALUE STATUS SUMMARY
R92 SYSTEMWIDE
CHANGE ORDER PM022-C0-1.00

Only shows cost allocated to R92

CONTRACTOR: URS CORPORATION /
ACTION DESCRIPTION: EXTENSION OF PROJECT MANAGEMENT ASSISTANCE (PMA) SUPPORT TO CAPITAL PROJECTS

CUMULATIVE CONTRACT WORK ORDER VALUE STATUS

| | | | |
|----|--------------------------------|----------------|---|
| 1. | CUMULATIVE AWARD AMOUNT:[1] | \$291,303.00 | (Includes \$291,303.00 in Planned Scope Amendments) |
| 2. | PREVIOUSLY EXECUTED CHANGES: | \$0.00 | |
| 3. | CURRENT VALUE: (1+2) | \$291,303.00 | |
| 4. | AUTHORIZED WACN/LNTP'S (NTE): | \$0.00 | |
| 5. | OBLIGATED VALUE: (3+4) | \$291,303.00 | |
| 6. | VALUE OF THIS ACTION: | \$891,713.00 | |
| 7. | NEW VALUE (IF APPROVED): (5+6) | \$1,183,016.00 | |

Contract Work Order Value Status Reviewed by MTA Procurement:



CUMULATIVE AUTHORIZATION FOR EXPENDITURE STATUS

AFE INCREASE REQUIRED/REQUESTED:

| | | | |
|-----|--|----------------|---|
| 8. | MTA APPROVED AFE: | \$316,172.00 | |
| 9. | NEW VALUE: (Line 7) | \$1,183,016.00 | |
| 10. | REMAINING AFE: (8-9) | (\$866,844.00) | \$866,844.00 For this action |
| 11. | OTHER PENDING CHANGES (merited) | \$0.00 | |
| 12. | REMAINING AFE VALUE (w/Changes: 10-11) | (\$866,844.00) | \$866,844.00 For all merited changes (projected cost) |
| 13. | ALLOWANCE FOR OTHER POTENTIAL CHANGES: | \$24,869.00 | |
| 14. | REMAINING AFE VALUE (w/Allowance: 12-13) | (\$891,713.00) | \$891,713.00 For all merited and undefined changes |

CUMULATIVE BUDGET STATUS

BUDGET VARIANCE (Initial to Current)

| | | | |
|-----|---|----------------|--|
| 15. | INITIAL BUDGET: | \$291,303.00 | |
| 16. | CURRENT BUDGET: | \$1,183,016.00 | \$891,713.00 Initial to Current Budget |
| 17. | NEW VALUE (IF APPROVED): (Line 7) | \$1,183,016.00 | |
| 18. | REMAINING BUDGET: (16-17) | \$0.00 | |
| 19. | OTHER PENDING CHANGES (merited) (Line 11) | \$0.00 | |
| 20. | REMAINING BUDGET w/Changes (18-19) | \$0.00 | |

Contract Budget Status Reviewed by MTA Program Control:

BC DATE: 2/13/02

[1] - Award Amount includes initial award and Planned Scope Amendments


ATTACHMENT 1
CONTRACT VALUE STATUS SUMMARY
 112 SAN FERNANDO VALLEY EAST/WEST BRT
 CHANGE ORDER PM023-C0-2.00

Only shows cost allocated to 112

CONTRACTOR: CARTER & BURGESS INC. /
ACTION DESCRIPTION: EXTENSION OF PMA SUPPORT - SAN FERNANDO VALLY-BUS RAPID TRANSIT PROJECT

CUMULATIVE CONTRACT WORK ORDER VALUE STATUS

| | | | |
|----|--------------------------------|--------------|---|
| 1. | CUMULATIVE AWARD AMOUNT:[1] | \$117,702.00 | (Includes \$117,702.00 in Planned Scope Amendments) |
| 2. | PREVIOUSLY EXECUTED CHANGES: | \$176,678.00 | |
| 3. | CURRENT VALUE: (1+2) | \$294,380.00 | |
| 4. | AUTHORIZED WACN/LNTP'S (NTE): | \$0.00 | |
| 5. | OBLIGATED VALUE: (3+4) | \$294,380.00 | |
| 6. | VALUE OF THIS ACTION: | \$331,164.00 | |
| 7. | NEW VALUE (IF APPROVED): (5+6) | \$625,544.00 | |

Contract Work Order Value Status Reviewed by MTA Procurement: 

CUMULATIVE AUTHORIZATION FOR EXPENDITURE STATUS

AFE INCREASE REQUIRED/REQUESTED:

| | | | |
|-----|--|----------------|---|
| 8. | MTA APPROVED AFE: | \$345,629.00 | |
| 9. | NEW VALUE: (Line 7) | \$625,544.00 | |
| 10. | REMAINING AFE: (8-9) | (\$279,915.00) | \$279,915.00 For this action |
| 11. | OTHER PENDING CHANGES (merited) | \$0.00 | |
| 12. | REMAINING AFE VALUE (w/Changes: 10-11) | (\$279,915.00) | \$279,915.00 For all merited changes (projected cost) |
| 13. | ALLOWANCE FOR OTHER POTENTIAL CHANGES: | \$51,249.00 | |
| 14. | REMAINING AFE VALUE (w/Allowance: 12-13) | (\$331,164.00) | \$331,164.00 For all merited and undefined changes |

CUMULATIVE BUDGET STATUS

BUDGET VARIANCE (Initial to Current)

| | | | |
|-----|---|--------------|--|
| 15. | INITIAL BUDGET: | \$0.00 | |
| 16. | CURRENT BUDGET: | \$691,000.00 | \$691,000.00 Initial to Current Budget |
| 17. | NEW VALUE (IF APPROVED): (Line 7) | \$625,544.00 | |
| 18. | REMAINING BUDGET: (16-17) | \$65,456.00 | |
| 19. | OTHER PENDING CHANGES (merited) (Line 11) | \$0.00 | |
| 20. | REMAINING BUDGET w/Changes (18-19) | \$65,456.00 | |

Contract Budget Status Reviewed by MTA Program Control: 

DATE: 02/13/07

[1] - Award Amount includes initial award and Planned Scope Amendments

ATTACHMENT 2

PROJECT MANAGEMENT ASSISTANCE

SUMMARY OF REQUIRED PMA SUPPORT

FOR THE PERIOD MARCH 1, 2002 THROUGH JUNE 30, 2002

The Project Management Assistance (PMA) Contract provides a cost-effective means of obtaining a wide range of highly qualified expertise to support periodic needs, which arise on large construction programs. PMA, by nature, is difficult to predict. One of the specific purposes of the PMA Contract is to respond to MTA staff's day-to-day requirements, which often arise with little notice but require immediate attention. While some types of activities may be anticipated, the exact timing and nature is often not predictable.

The following pages summarize the currently anticipated level-of-effort for PMA services that will or may be required during the period March 1, 2002 through June 30, 2002. The actual level and nature of PMA services for each of the projects may vary. By obtaining Board approval of the total AFE for PMA services, the Project Managers and Senior Management can request specific work as long as sufficient AFE exists. This process provides the staff with the ability to initiate PMA activities more quickly without the need for individual Board actions that would add costly delays and administrative costs to the process.

ATTACHMENT 2A

**SUMMARY OF REQUIRED PMA SUPPORT
MAJOR TRANSIT CORRIDOR PROJECTS**

MARCH 1, 2002 THROUGH JUNE 30, 2002

| PROJECT | POSITION | DUTIES |
|---|--|--|
| <p>San Fernando Valley Rapid Bus Project (Project 800112 task 2.1.01)</p> | <ul style="list-style-type: none"> • Civil/Structural Engineer • Value Engineer • Systems Engineer • Design Build Resident Engineer • Sr. Construction Specialist • Program Manager • Contract Project Management Analyst • Management Analyst | <ul style="list-style-type: none"> • Provide Civil and/or Structural engineering review of design submittals for compliance with criteria and standards. • Perform cost/benefit and life cycle cost analysis and make recommendations to the Project team for project cost savings. • Perform design review for systems drawings and specifications and assure compliance with Design Codes and Criteria. • Review design build drawings and specifications. Coordinate Design Build Contracts with non-build procurements. • Conduct constructability reviews and make necessary revisions to each Contract Specification. • Performs Program Management activities necessary to support this contract. Duties include preparing periodic reports, coordinating task assignments and assisting in the resolution of technical issues. • Prepare project reports, prepare invoices, manage budgets and monitor project schedules. • Provide administration support to the team. Prepare schedules, meeting minutes and coordinate weekly timesheets. |

| PROJECT | POSITION | DUTIES |
|---|--|--|
| <p>East Side Project (Project 800088 task 2.1.01)</p> | <ul style="list-style-type: none"> • Civil/Structural Engineer • Geotechnical/Tunnel Engineer • Value Engineer • VE Specialist • Systems Engineer • Tunneling Resident Engineer • Design Build Resident Engineer • Sr. Construction Specialist • Fire/Life Specialist • Program Manager • Contract Project Management Analyst • Management Analyst | <ul style="list-style-type: none"> • Provide Civil and/or Structural engineering review of design submittals for compliance with criteria and standards. • Perform design review for tunnel and geotechnical specifications and drawings. Review and revise design to be in compliance with design criteria, standards and local codes. • Perform cost/benefit and life cycle cost analysis and make recommendations to the Project team for project cost savings. • Summarize VE benefits, present results to Project Team and coordinate specification revisions. • Perform design review for systems drawings and specifications and assure compliance with Design Codes and Criteria. • Coordinate the resident Engineering duties for the East Side Project including preliminary tunneling work coordination and Contract constructability review. • Review design build drawings and specifications. Coordinate Design Build Contracts with non-build procurements. • Conduct constructability reviews and make necessary revisions to each Contract Specification. • Provide support to the MTA Fire/Life Committee and for the Safety Certification Checklist Program. • Performs Program Management activities necessary to support this contract. Duties include preparing periodic reports, coordinating task assignments and assisting in the resolution of technical issues. • Prepare project reports, prepare invoices, manage budgets and monitor project schedules. • Provide administration support to the team. Prepare schedules, meeting minutes and coordinate weekly timesheets. |

ATTACHMENT 2B

SUMMARY OF REQUIRED PMA SUPPORT FOR SAFETY PROGRAM

MARCH 1, 2002 THROUGH JUNE 30, 2002

| PROJECT | POSITION | DUTIES |
|--|--|--|
| MBL EMP Map Books Project 800220, Task 05.1 | <ul style="list-style-type: none"> • Sr. Mechanical Engineer • CADD Operator | <ul style="list-style-type: none"> • Research and identify map requirements at each MBL station • Develop map books |
| Fire Life Safety Committee Support (Project 800092, Task 3.2.03.1) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Perform document reviews for issues on the table for the Fire Life Safety Committee • Provide review comments and recommendations for resolution of issues • Provide meeting coordination and documentation support for the FLSC • Provide testing and other field services for the FLSC • Carry over to FY03 |
| Hazard Resolution Committee Support (Project 800092, Task 3.2.03.1) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Perform document reviews for issues on the table for the Hazard Resolution Committee (HRC). • Provide review comments and recommendations for resolution of issues. • Provide meeting coordination and documentation support for the Hazard Resolution Committee. • Provide testing, analysis and other field services for the HRC. • Carry over to FY03 |
| Modification of Red Line Aerial Photographs (Project 200220, Task 05.1) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Review Station as-built drawings for ventilation locations and conduct field verification • Provide revised drawings/map, technical assistance, and incorporate ventilation shaft locations on digital photographs. |
| Preparation of MGL Rail Inventory Books (Project 8900023, Task 3.2.03.01) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Develop MRIS books that contain information about safety systems of the light rail stations. • Book will cover public access, street elevators, inlets for fire suppression ,emergency exits and station EMPs, stairways, elevators, significant rooms. |

| PROJECT | POSITION | DUTIES |
|--|---|---|
| Preparation of MRL Segment 1 & 2A Rail Inventory Books (Project 200220, Task 05.1) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Develop MRIS books that contain information about safety systems of the MRL segment 1 & 2A stations. • Book will cover public access, street elevators, inlets for fire suppression ,emergency exits and station EMPs, stairways, elevators, significant rooms. |
| Preparation of Table Top Exercises and Training (Project 200220, Task 05.1) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Assist engineers with organizing and developing three table top exercises to support planning for emergency events and incidents. Assist with developing table top drill scenarios, including event descriptions, miscellaneous supporting documentation • Assist with documenting action items from table top drill meeting. • Provide assistance with resolution of action items. • Carry over to FY03 |
| Develop and Upgrade Standard Operating Procedures (SOP) and Emergency Operating Procedures (EOP) (Project 800220, Task 05.1) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Identify inconsistencies among the various SOPs and EOPs. • Provide review comments, recommendations • Assist in revising procedures • Provide recommendations for resolution of technical issues. • Carry over to FY03 |
| Develop and Upgrade SOPs and EOPs for CNG Buses and facilities (Project 200015, Task 01.01) | <ul style="list-style-type: none"> • Fire/Life Safety Specialist | <ul style="list-style-type: none"> • Assist engineers with development of standard and emergency operating procedures for CNG buses and facilities. • Carry over to FY03 |
| Contract Administration | <ul style="list-style-type: none"> • Program Manager • Project Management Analyst | <ul style="list-style-type: none"> • Prepare periodic reports, coordinate task assignments, assist in the resolution of technical issues • Process invoices and monitor budget and schedule • Carry over to FY03 |

ATTACHMENT 2C

SUMMARY OF REQUIRED PMA SUPPORT FOR OTHER TRANSIT PROJECTS

MARCH 1, 2002 THROUGH JUNE 30, 2002

| PROJECT | POSITION | DUTIES |
|--|---|---|
| Metro Green Line P2000 Cars Project 800023, Task 3.2.03.1 | <ul style="list-style-type: none"> • Project Engineers | <ul style="list-style-type: none"> • Provide RAG meeting support and other meeting support to MTA staff. • Provide vehicle testing support and eight integration tests EMI-Traction Power Nuisance trips testing on MGL • MGL and MBL EMI testing • Support of special studies for the project • Safety certification report preparation and support • Carry over to FY03 |
| Pasadena Blue Line 400224/06.02 | <ul style="list-style-type: none"> • Sr. Elect. Engineer | <ul style="list-style-type: none"> • Provide Electrical engineering review of design submittals for compliance with criteria and standards • Carry over to FY03 |
| Contract Administration | <ul style="list-style-type: none"> • Program Manager • Project Management Analyst | <ul style="list-style-type: none"> • Prepare periodic reports, coordinate task assignments, assist in the resolution of technical issues. • Process invoices and monitor budget and schedule • Carry over to FY03 |

ATTACHMENT 2D

SUMMARY OF REQUIRED PMA SUPPORT FOR CAPITAL PROJECTS

MARCH 1, 2002 THROUGH JUNE 30, 2002

| PROJECT | POSITION | DUTIES |
|--|--|--|
| Replace UPSs at Location 70,71,72,73, & 74 Project 200027, Task 92.02.06 | <ul style="list-style-type: none"> Electrical Engineer | <ul style="list-style-type: none"> Perform site surveys and provide documentation Develop and provide technical specification for the procurement & installation of the UPSs for the project Carry over to FY03 |
| Segment 1 Gas Mitigation System Project 200015, Task 03.001 | <ul style="list-style-type: none"> Gas Detection Engineer | <ul style="list-style-type: none"> Perform reviews of Contract Data Requirement List submittals and recommend resolutions for the Gas Monitoring System Project Review shop drawings and RFIs and provide recommendations and comments Provide engineering support during construction. Carry over to FY03 |
| CIP Project Support Project 800092, Task 3.2.03.1 | <ul style="list-style-type: none"> Management Analyst | <ul style="list-style-type: none"> Provide strategic planning support for organizational improvement process Provide expertise for upgrading policies and procedures. Provide technical writing support for production of critical documents Assist in the development and implementation of specialized training programs Provide support for developing training manuals, organizational documents, and policies and procedures Carry over to FY03 |
| Fiber Optic Upgrade 3205004/200220/02.01.01 | <ul style="list-style-type: none"> Sr. Electrical Engineer | <ul style="list-style-type: none"> Review design conflict, alternatives and recommend design changes to conform to MTA design criteria, codes and standards Carry over to FY03 |
| Overhead Catenary System Upgrade and Refurbishment (3300004/200013/40.01.01 | <ul style="list-style-type: none"> Sr. Electrical Engineer | <ul style="list-style-type: none"> Review design conflict, alternatives and recommend design changes to conform to MTA design criteria, codes and standard. |
| Automatic Train Control & Train to Wayside Communications (H0250) 4002013/800150/3.2.03.1 | <ul style="list-style-type: none"> Sr. Train Control Engineer | <ul style="list-style-type: none"> Review design conflicts, alternatives, cost effectiveness, operational issues and recommend design changes on all in-service lines Carry over to FY03 |

| PROJECT | POSITION | DUTIES |
|---|---|--|
| Division Network Construction 3907244/200020/05.02.7 | <ul style="list-style-type: none"> Sr. Electrical Engineer | <ul style="list-style-type: none"> Provide Electrical engineering review of design submittals for compliance with criteria and standards Carry over to FY03 |
| MBL Station Crossovers Power Switches | <ul style="list-style-type: none"> Sr. Train Control Engineer | <ul style="list-style-type: none"> Provide design review, assist in resolution of technical issues Carry over to FY03 |
| MGL PA System Improvements | <ul style="list-style-type: none"> Sr. Acoustics Engineer | <ul style="list-style-type: none"> Provide design review, assist with technical studies. |
| Emergency Lighting for Red Line Escalators CIP # 3205087, PR# 200015, Task # 15.14 | <ul style="list-style-type: none"> Electrical Engineer | <ul style="list-style-type: none"> Prepare specifications and drawings for the addition of emergency battery packs at Metro Red Line escalators |
| Emergency Lighting for Green Line Escalators Project 200014, Task 3.01 | <ul style="list-style-type: none"> Electrical Engineer | <ul style="list-style-type: none"> Prepare Specifications and drawings for the addition of emergency battery packs at Metro Green Line escalators |
| Investigation of Traction Power Nuisance Trips | <ul style="list-style-type: none"> Electrical Engineer | <ul style="list-style-type: none"> Perform field surveys and data analysis to identify the origin of traction power nuisance trips on the MGL and recommend mitigation measures |
| Investigation of Pantograph/OCS Interface Issues CIP # 3300004, PR# 200013, task # 04.01 | <ul style="list-style-type: none"> Electrical Engineer | <ul style="list-style-type: none"> Provide field testing support for the Pantograph/OCS interface performance on MBL & MGL Perform analysis of test results and recommend means of performance improvement |
| Upgrades for Metro Rail Systems and Facilities at: MRL 3205019/200013/08.01.01 MGL 3205062/200014/3.01 MBL 3205064/200015/15.01 | <ul style="list-style-type: none"> Sr. Analyst/ Management Consultant | <ul style="list-style-type: none"> Assist with technical writing, preparation of Management Action Plans (MAPs), and implementation of departmental policies. Assist in development and implementation of specialized training programs Carry over to FY03 |
| Contract Administration | <ul style="list-style-type: none"> Program Manager Project Management Analyst | <ul style="list-style-type: none"> Prepare periodic reports, coordinate task assignments, assist in the resolution of technical issues Process invoices and monitor budget and schedule Carry over to FY03 |