



**Expo**

Exposition Metro Line  
Construction Authority

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**6.e**

**DATE: MARCH 18, 2011**

**TO: BOARD OF DIRECTORS**

**FROM: RICHARD D. THORPE  
CHIEF EXECUTIVE OFFICER**

**ACTION: ADOPT A LIFE-OF-PROJECT BUDGET FOR PHASE 2 OF THE  
EXPOSITION LIGHT RAIL TRANSIT PROJECT IN THE AMOUNT  
OF \$1,511,158,000**

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### **RECOMMENDATION**

Adopt a Life-of-Project (LOP) Budget for Phase 2 of the Exposition Light Rail Transit Project (Expo Project) in the amount of \$1,511,158,000, and update the Phase 2 Budget as shown in Attachment A.

### **SUMMARY**

In February, 2011, the Los Angeles County Metropolitan Transportation Authority (Metro) Board approved a LOP Budget in the amount of \$1,511,158,000 for Phase 2 of the Expo Project. The Exposition Metro Line Construction Authority (Authority) staff has allocated the LOP Phase 2 budget among several categories including Design-Build Corridor Construction, Other Construction, Right-of-Way, Vehicles, Professional Services, Special Conditions, and Project Reserve.

### **DISCUSSION**

The LOP Budget of \$1,511,158,000 was based on the budget developed and included in the Final Environmental Impact Report (FEIR) for the Phase 2 Project. This amount has also been allocated in Metro's Long Range Plan and is included in the Funding Agreement for Phase 2 approved by the Metro Board. The budget has been further refined based on the submittal of bids for the Design-Build Contract. The following details show how the \$1.5 billion has been allocated among the various budget categories:

### Design-Build Corridor Budget

The baseline budget amount for the Design-Build Category is \$606,825,000. The budget includes all components of construction for the main alignment of the project. The Design-Build budget includes funding for all guideway and track construction, station construction, support facility construction, site work, systems and equipment, final design, general requirements, Contractor Controlled Insurance Program, professional liability insurance and allocated design-build construction provisional amounts. Construction contingency is allocated for the following items: potential contract modifications, design modifications, Colorado storm drain, storm water run-off mitigation and LRV test track, if warranted.

### Other Construction Elements

The baseline budget for Other Construction Elements is \$159,475,000. The budget includes all components for the Venice Boulevard Bridge, Maintenance Facility, Storage Yard and Paint/Body Shop. Included in this budget are costs for each project's Contractor Controlled Insurance Program, as well as Metro procured equipment and construction contingency. Construction contingency is allocated for potential contract modifications and design modifications.

### Right-of-Way Budget

The baseline budget for the Right-of-Way Category is \$265,000,000. The budget includes all components of Right-of-Way including acquisition, appraisal costs, relocation, lease termination, environmental services, and real estate consultant costs.

### Vehicles Budget

The baseline budget for the Vehicles Category is \$202,100,000 for Phase 2 of the Expo Project. The allocation of this amount for Vehicles was mutually agreed upon with Metro per the Phase 2 Funding Agreement Term Sheet and Master Cooperative Agreement.

### Professional Services

The baseline budget for Professional Services Category is \$148,200,000. The budget includes funding for both Authority and Metro labor, overhead and non-labor costs, design-engineering services, project management/construction management services, legal services, other specialty services, as well as allocated contingency. The Professional Services Budget will include all costs associated with completing design of the maintenance facility and design of the Venice Boulevard Bridge.

### Special Conditions Budget

The Phase 2 baseline budget for the Special Conditions Category is \$63,600,000. The Special Conditions Budget includes funding for the art program, utility relocations by third parties, third party agreements, commissioning (start-up), and allocated contingency for Special Conditions related work.

### Project Reserve

The Expo Phase 2 baseline Project Reserve budget is \$65,958,000.

### Project Enhancements

A potential enhancement to the Phase 2 baseline project is the possible addition of the Sepulveda Grade Separation and aerial station. This enhancement would be paid for by the City of Los Angeles and is not part of the above referenced \$1.511 billion Phase 2 LOP Budget. Should this enhancement be funded by the City and added to the project, it will be tracked in a separate Project Enhancements Category outside of the baseline LOP Budget.

### **FINANCIAL IMPACT**

This action does not result in a net financial impact to the project.

### **NEXT STEPS**

Expo will monitor the project budget and will bring regular updates to the Board.

### **ATTACHMENT(S)**

A. Expo Phase 2 Life-of-Project Budget

## ATTACHMENT A: Expo Phase 2 Life-of-Project Budget

### Design Build Corridor

| Category                                 | Description                    | Total LOP<br>Budget (x000) |
|--|--------------------------------|----------------------------|
| <b>Guideway &amp; Tracks</b>             |                                | <b>\$ 71,335</b>           |
|  | Design Build                   | \$ 71,335                  |
| <b>Stations</b>                          |                                | <b>\$ 37,390</b>           |
|  | Design Build                   | \$ 37,390                  |
| <b>Sitework &amp; Special Conditions</b> |                                | <b>\$ 121,185</b>          |
|  | Design Build                   | \$ 96,210                  |
|  | Schedule F Provisional Amounts | \$ 15,000                  |
|  | Contractor Insurance           | \$ 9,975                   |
| <b>Systems &amp; Equipment</b>           |                                | <b>\$ 76,330</b>           |
|  | Design Build                   | \$ 76,330                  |
| <b>Final Design</b>                      |                                | <b>\$ 59,000</b>           |
|  | Design Build - Final Design    | \$ 59,000                  |
| <b>General Requirements</b>              |                                | <b>\$ 176,490</b>          |
|  | Design Build                   | \$ 176,490                 |
| <b>Sub-Total: Design Build Corridor</b>  |                                | <b>\$ 541,730</b>          |
| <b>Allocated Contingency*</b>            |                                | <b>\$ 65,095</b>           |
| <b>Total: Design Build Corridor</b>      |                                | <b>\$ 606,825</b>          |

\* Contingency amounts for potential Change Orders, Contract Modifications, Colorado Storm Drain, Storm Water Run-Off Mitigation and LRV Test Track

### Other Construction Elements

| Category                                  | Description              | Total LOP<br>Budget (x000) |
|---|--------------------------|----------------------------|
| <b>Guideway &amp; Tracks</b>              |                          | <b>\$ 15,000</b>           |
|   | Venice Blvd. Bridge      | \$ 15,000                  |
| <b>Support Facilities</b>                 |                          | <b>\$ 97,540</b>           |
|   | Maintenance Facility     | \$ 61,230                  |
|   | Storage Yard             | \$ 25,310                  |
|   | Div 22 Paint/Body Shop   | \$ 11,000                  |
| <b>Sitework &amp; Special Conditions</b>  |                          | <b>\$ 8,505</b>            |
|   | Maintenance Facility     | \$ 2,500                   |
|   | Contractor Insurance     | \$ 6,005                   |
| <b>Systems &amp; Equipment</b>            |                          | <b>\$ 28,430</b>           |
|   | Metro Procured Equipment | \$ 28,430                  |
| <b>Allocated Contingency*</b>             |                          | <b>\$ 10,000</b>           |
| <b>Total: Other Construction Elements</b> |                          | <b>\$ 159,475</b>          |

\* Contingency amounts for potential Change Orders and Contract Modifications.

### Right of Way

| Category                      | Description | Total LOP<br>Budget (x000) |
|-------------------------------|-------------|----------------------------|
| <b>Appraisal</b>              |             | \$ 250                     |
| <b>Acquisition</b>            |             | \$ 245,750                 |
| <b>Relocation</b>             |             | \$ 18,600                  |
| <b>Environmental Services</b> |             | \$ 250                     |
| <b>Other RE Consultants</b>   |             | \$ 150                     |
| <b>Total: Right of Way</b>    |             | <u>\$ 265,000</u>          |

### Vehicles

| Category               | Description | Total LOP<br>Budget (x000) |
|------------------------|-------------|----------------------------|
| Light Rail Vehicles    |             | \$ 202,100                 |
| <b>Total: Vehicles</b> |             | <u>\$ 202,100</u>          |

### Professional Services

| Category                            | Description                         | Total LOP<br>Budget (x000) |
|-------------------------------------|-------------------------------------|----------------------------|
| <b>Authority Labor/Non Labor</b>    |                                     | \$ 29,830                  |
| <b>Metro Labor/Non Labor</b>        |                                     | \$ 9,480                   |
| <b>Design Engineering</b>           |                                     | \$ 34,935                  |
|                                     | Environmental & PE Services         | \$ 11,000                  |
|                                     | PE Services - DB                    | \$ 10,000                  |
|                                     | PE Services - Venice Blvd. Bridge   | \$ 935                     |
|                                     | PE Services - Maintenance Facility  | \$ 3,000                   |
|                                     | Final Design - Venice Blvd. Bridge  | \$ 1,800                   |
|                                     | Final Design - Maintenance Facility | \$ 5,000                   |
|                                     | Design Support (EOR)                | \$ 3,200                   |
| <b>PM/CM Services</b>               |                                     | \$ 42,820                  |
| <b>Legal Services</b>               |                                     | \$ 5,235                   |
| <b>Other Specialty Services</b>     |                                     | \$ 6,900                   |
| <b>Allocated Contingency</b>        |                                     | \$ 19,000                  |
|                                     | Metro Reserve                       | \$ 4,500                   |
|                                     | Other (10%)                         | \$ 14,500                  |
| <b>Total: Professional Services</b> |                                     | <u>\$ 148,200</u>          |

Special Conditions

| Category                         | Description          | Total LOP<br>Budget (x000) |
|----------------------------------|----------------------|----------------------------|
| <b>Art Program</b>               |                      | <b>\$ 2,860</b>            |
| <b>Utility Relocations</b>       |                      | <b>\$ 19,760</b>           |
| <b>Third Party Agreements</b>    |                      | <b>\$ 27,480</b>           |
|                                  | DWP                  | \$ 3,060                   |
|                                  | LA City              | \$ 17,300                  |
|                                  | LA County            | \$ 290                     |
|                                  | City of Santa Monica | \$ 4,000                   |
|                                  | SCE                  | \$ 330                     |
|                                  | Caltrans             | \$ 2,500                   |
| <b>Commissioning</b>             | Testing & Start Up   | <b>\$ 4,500</b>            |
| <b>Allocated Contingency</b>     | Other (15%)          | <b>\$ 9,000</b>            |
| <b>Total: Special Conditions</b> |                      | <b>\$ 63,600</b>           |

Project Reserve

| Category                      | Description | Total LOP<br>Budget (x000) |
|-------------------------------|-------------|----------------------------|
| <b>Project Reserve</b>        |             | <b>\$ 65,958</b>           |
| <b>Total: Project Reserve</b> |             | <b>\$ 65,958</b>           |

Summary

|                            |                     |
|----------------------------|---------------------|
| Design Build               | \$ 606,825          |
| Other Constuction Elements | \$ 159,475          |
| Right of Way               | \$ 265,000          |
| Vehicles                   | \$ 202,100          |
| Professional Services      | \$ 148,200          |
| Special Conditions         | \$ 63,600           |
| Project Reserve            | \$ 65,958           |
| <b>Total LOP:</b>          | <b>\$ 1,511,158</b> |

Project Enhancements

| Category   | Description | Total LOP<br>Budget (x000) |
|--|-------------|----------------------------|
| <b>Sepulveda Blvd. Bridge &amp; Aerial Structure</b> |             | <b>\$ 5,300 *</b>          |
| <b>Total: Project Enhancements</b>                   |             | <b>\$ 5,300</b>            |

\* Cost will be funded by the City of Los Angeles.