



CONSTRUCTION COMMITTEE  
JUNE 17, 2004

PROJECT: CAPITAL PROGRAM RAIL SECTOR SUPPORT

ACTION: APPROVE USE OF DESIGN-BUILD CONTRACTING DELIVERY APPROACH  
FOR RAIL AND MAINTENANCE-OF-WAY FACILITIES  
CAPITAL PROJECTS

RECOMMENDATION

- A. The Board finds that awarding design/build contracts pursuant to Public Utilities Code Section 130242(a) will achieve for the MTA certain private sector efficiencies in the integration of the design, project work and components related to the real property renovation, repair and construction work at MTA facilities in Los Angeles County as defined by the projects listed on Attachment "A" (requires 2/3 vote); and
- B. Authorize the Chief Executive Officer to solicit and award design-build contracts for renovation, repair and construction at MTA facilities, pursuant to Public Utilities Code Section 130051.9 (c).

BACKGROUND

In the past, the majority of the Capital Improvements to MTA Facilities, including Bus and Rail Facilities, Maintenance of Way, and other Capital Projects for renovation, repair and construction have been delivered as traditional design/bid/build projects. However, in the last few years MTA has experienced success with design/build construction contracts in the Capital Program. Staff is seeking opportunities to expand the use of this delivery system for current and future Capital Projects.

The attached list describes projects approved by the Board in the Fiscal Year 2005 budget for Capital Projects for facilities improvements. These or similar projects were selected because:

- A single point of responsibility for both design and construction is preferred;

- Staff project development resources are limited so more budgeted projects can be accomplished by adding design/build capability;
- Agency risk for design is shifted to Design/Builder, changes related to design are minimized;
- Agency will achieve schedule efficiency and significant time savings because design can proceed in parallel with some construction;
- Agency will save administrative costs due to combining the solicitation process with design and construction; save construction management and engineering resources during the construction phase; and minimize contract-generated changes to reduce contract closeout time; and
- Projects as listed on Attachment "A" requiring standard or minimal design effort are chosen for design/build, as they are more conducive to being implemented by design/build contractors with general engineering and contracting capacity.

### FINANCIAL IMPACT

There is no financial impact resulting from this action. Funds for selected projects are included in the FY05 budget. In subsequent years, cost center managers and the Executive Officer will be accountable for budgeting the cost.

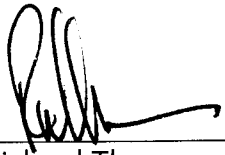
### ALTERNATIVES CONSIDERED

This work could be accomplished utilizing consultants to prepare separate designs or with designs prepared by Staff for bid and construction. Staff does not recommend this approach because the scope and size of the listed projects lend themselves to the more streamlined design/build project delivery method.

### ATTACHMENT

#### A. Rail Sector Maintenance of Way Projects Delivery under Design/Build Contracts

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Richard Thorpe  
Chief Capital Management Officer  
Construction Project Management



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Roger Snoble  
Chief Executive Officer

## Rail Sector Maintenance of Way Projects Delivery under Design/Build Contracts

PROJECT NAME	PROJECT DESCRIPTION
CP No. 3308017 PGL Traction Power Substations	Installation and testing of four Traction Power Substations currently in procurement for the Gold Line.
CP No. 3308001 Light Rail Train Tracking Improvement	Design and Installation of new wayside equipment for monitoring additional points in the signal system and SCADA software to add train tracking capabilities on the Metro Blue Line and Metro Gold Line in both street running and signaled territory.
CP No. 3207063 PGL Division –21 Mid Way Yard, Storage Tracks	Furnish and install storage tracks for 10 additional LRVs, at South of Broadway Bridge.
CP No 3205075 MRL Station Entrance Canopies	Furnish and install 18 Entrance Canopies at MRL stations.
CP No. 3207062 Vermont/Santa Monica Station Under Ground Water Mitigation	Retain geotechnical consultant's services to assist MTA Engineering in preparation of PE package for water Mitigation and inflow into station.
CP No. 3308009 MRL Sig-1 Remote Terminal Unit (RTU) Upgrade	Replace aging MRL Segment 1 Remote Terminal Units and related equipment.
CP No. 3207014 Rail Security Improvements	Replace, upgrade and reconfigure CCTV cameras, install digital video recorders and car borne video cameras, install intrusion detection in unmonitored MRL rooms, improve security at street hatch emergency exits.

PROJECT NAME	PROJECT DESCRIPTION
CP No. 3308027 MRL Signal System Upgrade	Upgrade Segment 1 track circuits modules to match rest of MRL; install wayside pushbuttons to control Union Station interlocking; upgrade other interlockings.
CP No. 3207057 Rail System Safety Improvements	Numerous mini projects to mitigate hazardous and unsafe conditions identified by local safety committees.
CP No. 3306017 MBL Four-Quadrant Gate Program Expansion	Construct Four-Quadrant Gates (exit gates and vehicle detection system) at an additional 13 grade crossings along the MBL.