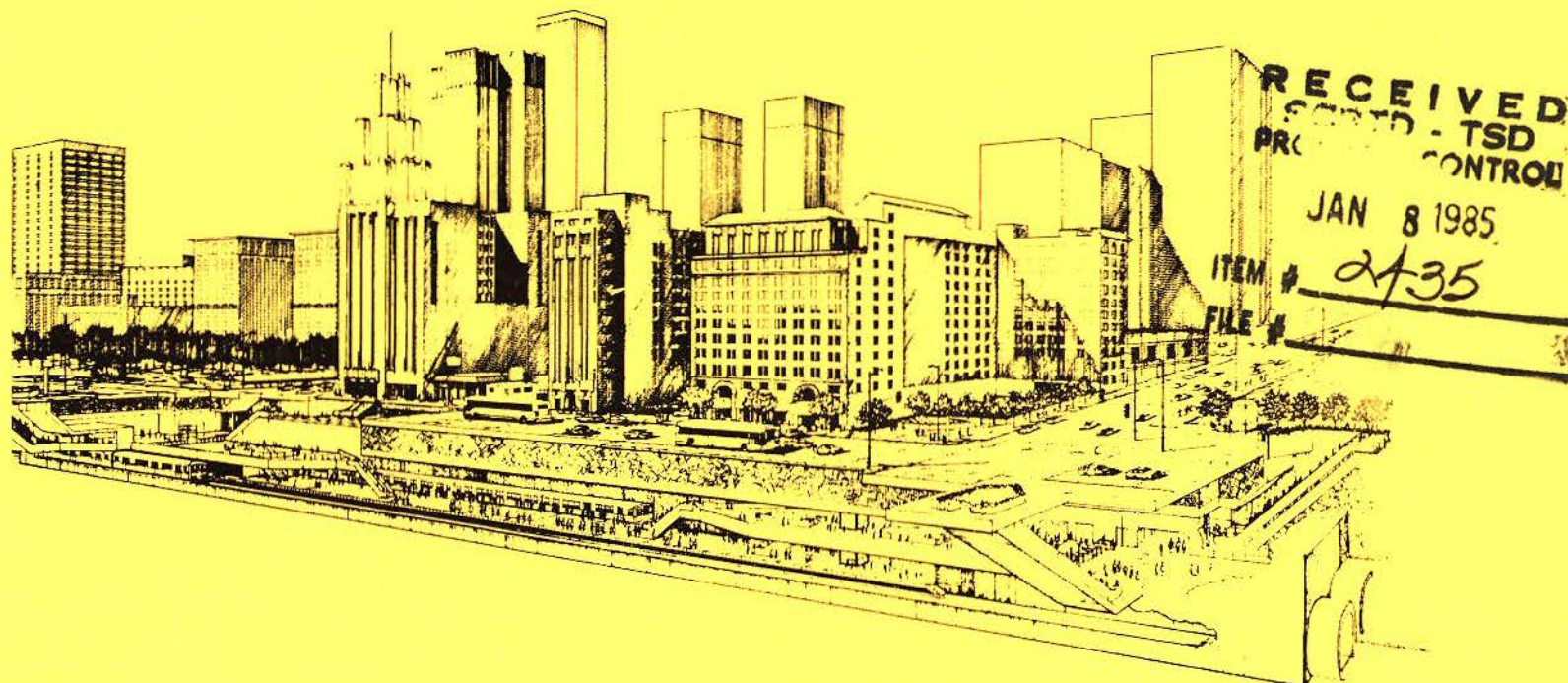


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# LOS ANGELES **METRO RAIL** PROJECT MONTHLY CONTRACT PERFORMANCE REPORT



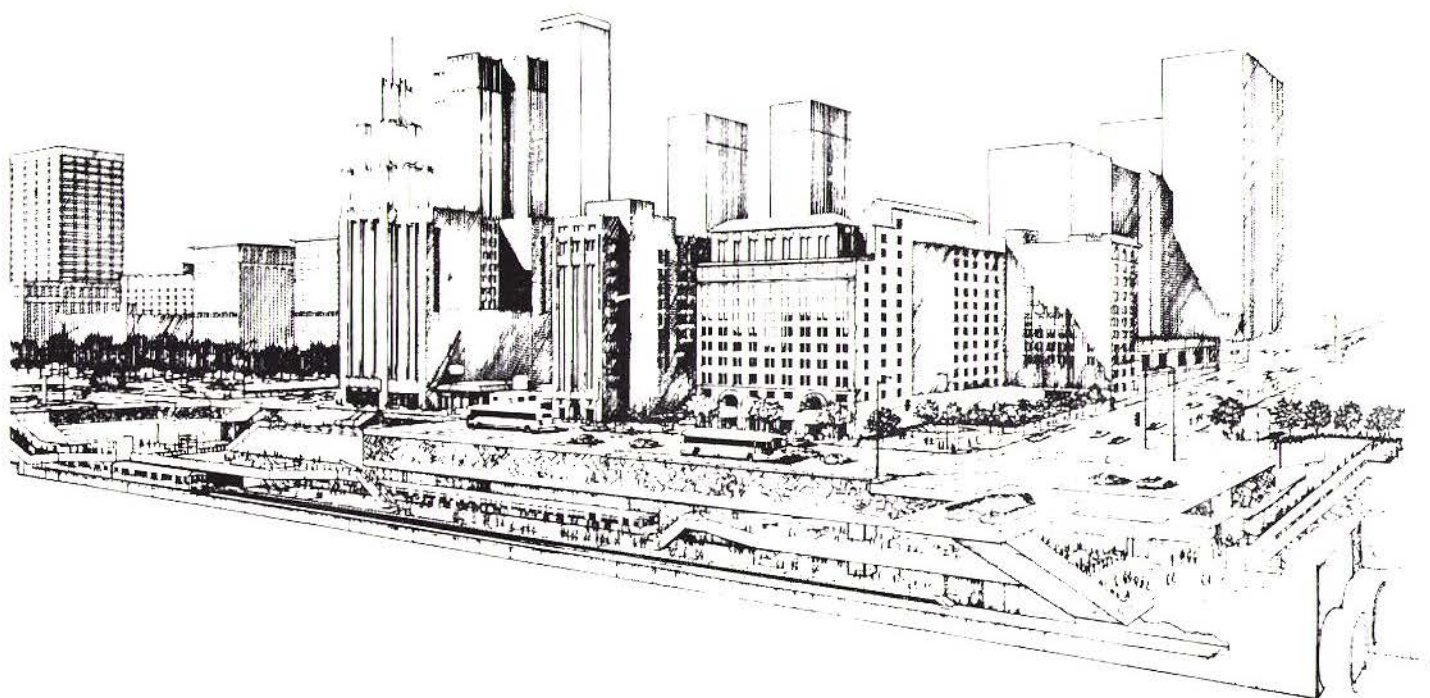
**REPORT NUMBER 6  
DECEMBER 1984**

**PDCD**



# LOS ANGELES **METRO RAIL** PROJECT

## MONTHLY CONTRACT PERFORMANCE REPORT



**REPORT NUMBER 6**  
**DECEMBER 1984**

**PDCD**

A JOINT VENTURE OF THE RALPH M. PARSONS COMPANY, DILLINGHAM CONSTRUCTION, INC. AND DE LEUW, CATHER & COMPANY

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**LOS ANGELES METRO RAIL**  
**CONTRACT PERFORMANCE**  
**REPORT**

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**PERIOD** December 1984

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**FOREWORD**

This sixth monthly Contract Performance Report covers the First Annual Work Plan, Phase I Preconstruction, work activities for the reporting month of December 1984 (December 1 through December 28, 1984).

**Parsons-Dillingham-De Leuw, Cather**



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**I. Construction Manager's Summary Statement**

Work activities during the December reporting period focused primarily on incorporation of additional RTD comments into the procedure manuals for resubmission to the RTD, establishment of a joint MRTC/PDCD MOS-1 baseline schedule, coordination of utility relocations, performance of estimate reviews, completion of the review of the Standard Technical Specifications and continuation of design reviews for constructibility.

As of December 28, the following procedure manuals have been submitted to RTD for final approval:

- (1) Organization and Responsibilities
- (2) Administration Procedures
- (3) Construction Safety and Security (includes Safety Monitoring and Safety Plan)
- (4) Construction Operations (includes Permits and Licenses, Coordination between Contractors, and Coordination of Utilities and Traffic)

The status of the remaining manuals is:

- (1) Quality Assurance/Quality Control - being rewritten to incorporate PDCD's recommendation on Management of Quality (awaiting RTD's decision on QQC).
- (2) Procurement-Completion awaiting resolution/definition by RTD of Resident Engineer (RE) vs. Contract Administration (CA) responsibilities.
- (3) Project Controls (includes Cost and Scheduling, Configuration Control, and Development of the Annual Work Plan) - Portions are finished, but completion is dependent on definition of the operating system by RTD.
- (4) Resident Engineer (includes Management of Construction Changes) - completion awaiting resolution of RE vs. CA responsibilities.
- (5) Inspector Guidelines - Initial RTD comments have been incorporated, and the manual has been resubmitted; awaiting additional RTD comments or final approval.

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A draft Amendment 2 to the Prime Contract for Phase II Construction during the First Annual Work Plan has been prepared. Submission will be made upon RTD's request, pending funding availability.

The PDCD accounting data base has been established through November 30, and the system will be producing current status reports by mid-January.

District approval was received for the Jacobs Associates, Engineering Science, Inc., and Martin & Huang International subcontracts. The Ochoa & Sillas and Randolph & Tate subcontracts have been negotiated and consent packages have been submitted to RTD for approval. The NPCC, Inc., subcontract is still in negotiation. Two subcontractors, Dames & Moore and Hayakawa Associates, have been issued subcontract amendments.

Continued emphasis is being placed on utility relocation. A detailed construction schedule and sequence description of utility company work for A-142, Civic Center Excavation, has been prepared. The final Utility Arrangement Plan for the 5th and Hill Station has been reviewed and commented on. Meetings have begun with the utility companies to review the initial Utility Relocation Plan for A-220, the Wilshire/Normandie Station.

Schedule analysis and meetings with MRTC to establish a joint MOS-1 baseline schedule continued in December.

A preliminary review was conducted of the MOS-1 construction cost estimate of November 30, and comments were submitted to the RTD.

Meetings were held with the RTD to finalize the Construction Performance Report formats and establish a plan for benchmarking TRACS. Contract A-114 will be test-loaded using the budgeting, scheduling, progress payment, change order, and procurement modules. Coordination with the RTD to complete this task will continue in January.

Estimate reviews were conducted on Contracts A-135 (60%), A-140 (60%), A-145 (60%), A-165 (60%), A-170 (60%) and A-175 (85%). Various estimating software packages were evaluated for potential assistance in preparation of PDCD's construction check estimates.



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One civil engineer joined the staff in December and one administrative aide left, holding the staffing constant at 57 assigned personnel of which 3 are part-time. The current staff mix by Joint Venture/Associate subcontractors is summarized in the following table:

| <u>Company</u>                            | <u>Staff Level</u> |
|-------------------------------------------|--------------------|
| The Ralph M. Parsons Company              | 23                 |
| Dillingham Construction, Inc.             | 7                  |
| De Leuw, Cather & Company                 | 8                  |
| Better Personnel Employment Services      | 7                  |
| Construction Control Services Corporation | 3                  |
| Dames & Moore                             | 1                  |
| Engineering-Science, Inc.                 | 1                  |
| Hayakawa Associates                       | 2                  |
| Jacobs Associates                         | 1                  |
| Jenkins, Gales & Martinez, Inc.           | 1                  |
| Martin & Hunag International              | 2                  |
| Vanir Construction Management, Inc.       | 1                  |
| Total                                     | 57                 |

During the current reporting period, there were 144 available work hours versus the plan of 157. A total of 7,287 hours was expended, producing an equivalent manpower of 51. The equivalent manpower for the period is considerably lower than actual staffing due to holidays and vacation time taken during the holidays.

The DBE participation goal is 17% of the total contract cost. In December, DBE participation accounted for 15% of the total monthly cost, bringing the cumulative percentage of DBE participation to 11.8%. DBE costs continue to run below the goal for primarily two reasons. Delays were experienced in bringing on subcontractors due to front end administrative delays; also the delays in construction startup caused a shift in planned DBE field position to engineering position which have been more difficult to staff.

Parsons-Dillingham-De Leuw, Cather



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The WBE participation goal is 3% of the total contract cost. In December, WBE participation accounted for 3% of the total monthly cost, bringing the cumulative percentage of WBE participation to 2.4%

The affirmative action goals for minorities and women continue to be substantially surpassed.

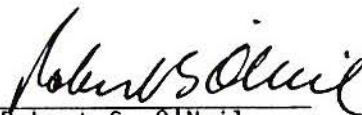
The December cost was \$532,739 verses a budgeted December cost of \$568,264. The cumulative cost to date is \$2,125,318 versus a cumulative budget of \$2,794,635. For the month of December, we have experienced an expenditure under plan of \$35,525 bringing our cumulative underexpenditure to \$669,317.

The third meeting of the PDCD Joint Venture Executive Board was held on December 18, 1984, with Messrs Murray and Strosnider of RTD present.

During January, PDCD will continue to incorporate RTD comments into the procedure manuals. Upon RTD final approval, publication and distribution will be initiated.

Work will continue on establishment of a joint PDCD/MRTC MOS-1 baseline schedule. Constructibility and estimate reviews will be performed with prioritization placed on MOS-1 contract packages.

The proposed Amendment 2 to the contract covering Phase II - Construction for the First Annual Work Plan for MOS-1 will be submitted to the RTD for negotiation so that PDCD will be prepared to respond when construction funds become available.

  
Robert S. O'Neil  
Construction Manager

Parsons-Dillingham-De Leuw, Cather



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**II. MANPOWER PERFORMANCE**

One civil engineer was added to the staff in December. This addition was offset by the reduction of one administrative aide: thus the total staffing of assigned personnel remained constant at 57. The planned personnel as of December was 66. Figure 1 reflects the status of planned personnel versus actual personnel as of December 28, 1984.

During this reporting period, December 1, 1984, through December 28, 1984, there were 144 available work hours versus the plan of 157 hours. A total of 7,287 hours were expended, producing an equivalent manpower of 51 as reflected in Figure 2.

**Parsons-Dillingham-De Leuw, Cather**



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Figure 1 - Construction Management Manpower Status  
Roster Count 12/28/84

| <u>Position</u>                              | <u>Planned</u> | <u>Actual</u> | <u>Variance</u> |
|----------------------------------------------|----------------|---------------|-----------------|
| <u>Management</u>                            |                |               |                 |
| Construction Manager                         | 1              | 1             | -               |
| Secretarial/Word Processing/Clerical         | 12             | 9             | (3)             |
| Subtotal                                     | 13             | 10            | (3)             |
| <u>Administration and Staff Support</u>      |                |               |                 |
| DCM                                          | 1              | 1             | -               |
| Manager, Project Administration              | 1              | 1             | -               |
| Office Manager                               | 1              | 1             | -               |
| Senior Accountant                            | 1              | 1             | -               |
| Personnel Administrator                      | 1              | 1             | -               |
| Manager, Safety                              | 1              | 1             | -               |
| Manager, Quality Assurance                   | 1              | 1             | -               |
| Manager, Community Relations                 | 1              | 1             | -               |
| EO Administrator                             | 1              | 1             | -               |
| EO Assistant Administrator                   | 1              | 0             | (1)             |
| Labor Relations Advisor                      | 1              | 1             | -               |
| Subtotal                                     | 11             | 10            | (1) Part-time   |
| <u>Engineering Services/Project Controls</u> |                |               |                 |
| DCM                                          | 1              | 1             | -               |
| Manager, Project Controls                    | 1              | 1             | -               |
| Lead Estimator                               | 1              | 1             | (-)             |
| Estimator                                    | 1              | 1             | (-)             |
| Lead Cost Engineer/Analyst                   | 1              | 1             | -               |
| Cost Engineer/Analyst                        | 1              | 2             | 1               |
| Lead Planner/Scheduler                       | 1              | 1             | -               |
| Senior Planner Scheduler                     | 1              | 1             | -               |
| Lead Document Control Specialist             | 1              | 1             | -               |
| Lead Change Control Analyst                  | 1              | 0             | (1)             |



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Figure 1 (Contd)

| <u>Position</u>                                      | <u>Planned</u> | <u>Actual</u> | <u>Variance</u> |           |
|------------------------------------------------------|----------------|---------------|-----------------|-----------|
| <u>Engineering Services/Project Controls (Contd)</u> |                |               |                 |           |
| Manager, Contracts/Procurement                       | 1              | 1             | -               |           |
| Contract Administrator                               | 1              | 1             | -               |           |
| Procurement Specialist/Inspector                     | 2              | 1             | (1)             |           |
| Manager, Engineering Services                        | 1              | 1             | -               |           |
| Lead Geotechnical Engineer                           | 1              | 1             | -               |           |
| Lead Electrical Engineer                             | 1              | 1             | -               |           |
| Electrical Engineer                                  | 1              | 1             | -               |           |
| Lead Structural Engineer                             | 1              | 1             | -               |           |
| Structural Engineer                                  | 1              | 1             | -               |           |
| Lead Civil Engineer                                  | 0              | 1             | 1               |           |
| Lead Architect                                       | 1              | 1             | -               |           |
| Lead Mechanical Engineer                             | 1              | 1             | -               |           |
| Mechanical Engineer                                  | 1              | 1             | -               |           |
| Lead Systems Engineer                                | 1              | 0             | (1)             |           |
| Systems Engineer                                     | 1              | 0             | (1)             |           |
| Geotechnical Technician                              | 2              | 2             | (-)             |           |
| Geotechnical Engineering Specialist                  | 1              | 1             | -               | Part-time |
| Subtotal                                             | 28             | 26            | (2)             |           |
| <u>Planning</u>                                      |                |               |                 |           |
| DCM                                                  | 1              | 1             | -               | Part-time |
| <u>Operations</u>                                    |                |               |                 |           |
| DCM                                                  | 1              | 1             | -               |           |
| Manager, General Services                            | 1              | 1             | -               |           |
| Lead Utilities Engineer                              | 1              | 1             | -               |           |
| Utilities Engineer                                   | 2              | 1             | (1)             |           |
| Chief of Surveys                                     | 1              | 1             | (-)             |           |
| Surveyors                                            | 2              | 0             | (2)             |           |
| Lead Traffic Coordinator                             | 1              | 1             | -               |           |
| Preconstruction Surveys Coordinator                  | 1              | 1             | -               |           |



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Figure 1 (Contd)

| <u>Position</u>                               | <u>Planned</u> | <u>Actual</u> | <u>Variance</u> |
|-----------------------------------------------|----------------|---------------|-----------------|
| <u>Operations (Contd)</u>                     |                |               |                 |
| Lead Environmental Monitoring/Permit Engineer | 1              | 1             | (-)             |
| Zone CM                                       | 1              | 1             | -               |
| Manager, Systems Integration                  | 1              | 1             | -               |
| Subtotal                                      | 13             | 10            | (3)             |
| Total                                         | 66             | 57            | (9)             |



# LOS ANGELES METRO RAIL

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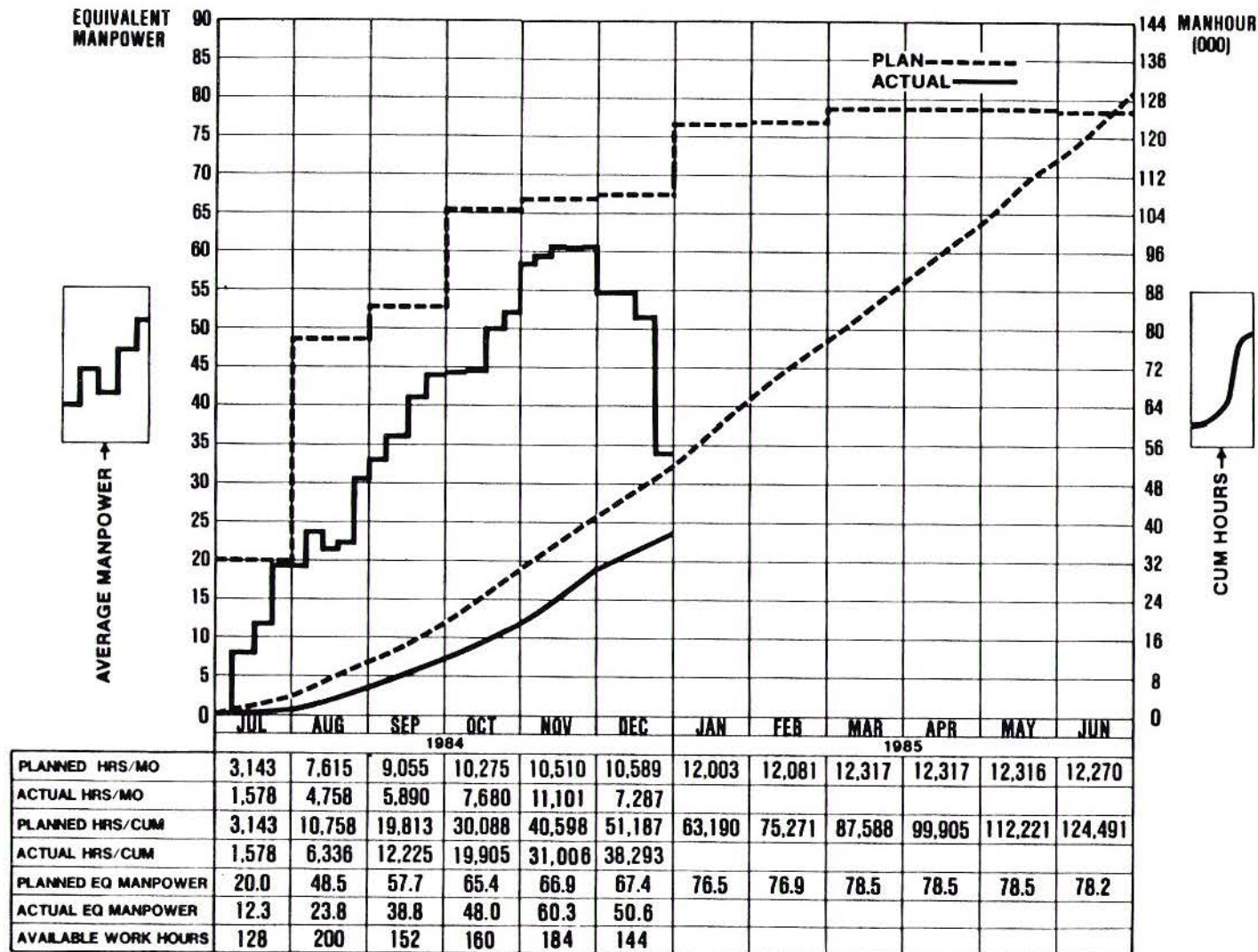


FIGURE 2 - PDCD MANPOWER STATUS

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**III EQUAL OPPORTUNITY PERFORMANCE**

This month's Equal Opportunity Performance is reported in four separate charts: DBE Participation, WBE Participation, Minority Affirmative Action and Women Affirmative Action.

The DBE participation goal is 17% of the total contract cost. In November the DBE participation was 10%. As indicated in Figure 1, the December participation increased by 5% bringing the total DBE participation to 15%. On a cumulative basis, DBE costs are 11.8% of the December contract cost.

Delays were experienced in bringing subcontractors on board due to contracting and administrative delays. Also, the delay in construction funding has caused a shift in planned DBE field positions to engineering positions, which have been more difficult to staff.

The WBE participation goal is 3% of the total contract cost. In November the WBE participation was 2% as indicated in Figure 2, the December participation increased 1%, meeting the monthly goal of 3%. On a cumulative basis, WBE costs are 2.4% of the total contract cost.

The affirmative action goals for minorities and women continue to be substantially surpassed as reflected in Figures 3 and 4. The December percentage in the minority category decreased 2%.

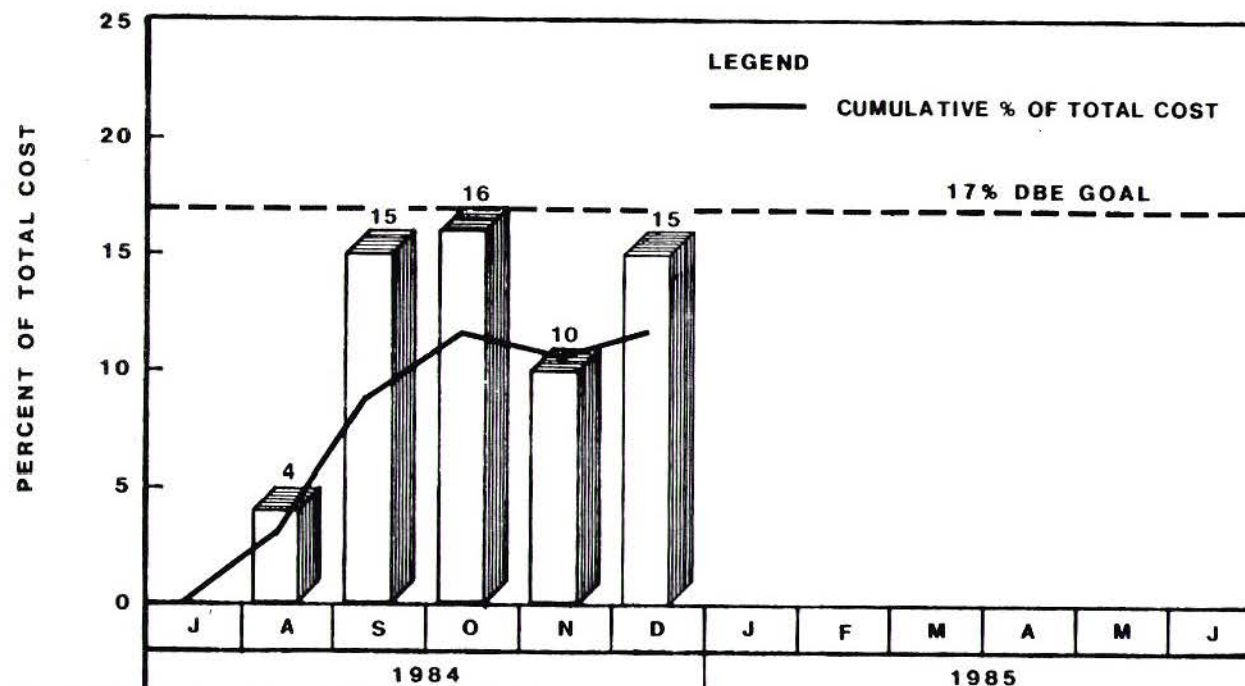
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# LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

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|                               | 1984 |      |     |     |       |       | 1985 |  |  |  |  |  |
|-------------------------------|------|------|-----|-----|-------|-------|------|--|--|--|--|--|
| TOTAL COST (\$000)            | 101  | 227  | 292 | 363 | 610   | 532   |      |  |  |  |  |  |
| CUMULATIVE TOTAL COST (\$000) | 101  | 328  | 620 | 983 | 1,593 | 2,125 |      |  |  |  |  |  |
| MONTHLY DBE COST              | 0    | 10   | 45  | 59  | 58    | 79    |      |  |  |  |  |  |
| CUMULATIVE DBE COST           | 0    | 10   | 55  | 114 | 172   | 251   |      |  |  |  |  |  |
| MONTHLY DBE %                 | 0    | 4    | 15  | 16  | 10    | 15    |      |  |  |  |  |  |
| MONTHLY VARIANCE DBE %        | 0    | <13> | <2> | <1> | <7>   | <2>   |      |  |  |  |  |  |
| CUMULATIVE VARIANCE DBE %     | 0    | <13> | <9> | <5> | <6>   | <5>   |      |  |  |  |  |  |

FIGURE 1 - DBE ANALYSIS

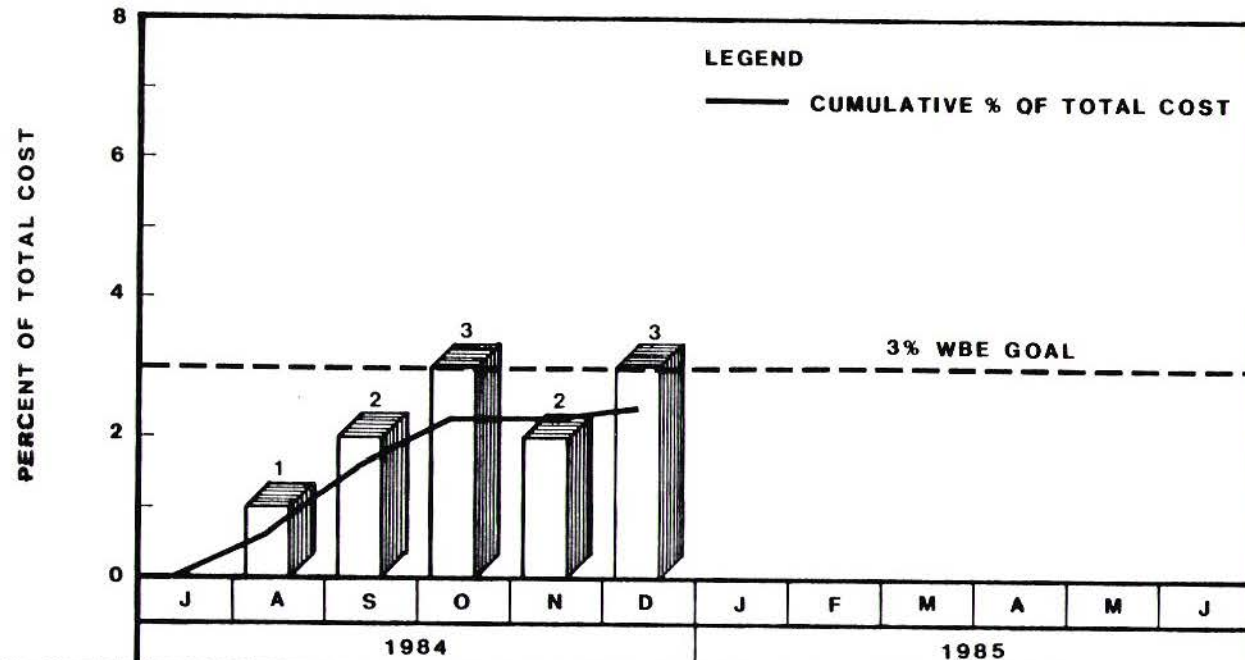
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# LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

**PDCD**

PERIOD December 1984



|                               | 1984 |     |     |     |       |       | 1985 |  |  |  |  |  |
|-------------------------------|------|-----|-----|-----|-------|-------|------|--|--|--|--|--|
| TOTAL COST (\$000)            | 101  | 227 | 292 | 363 | 610   | 532   |      |  |  |  |  |  |
| CUMULATIVE TOTAL COST (\$000) | 101  | 328 | 620 | 983 | 1,593 | 2,125 |      |  |  |  |  |  |
| MONTHLY WBE COST              | 0    | 2   | 8   | 12  | 13    | 15    |      |  |  |  |  |  |
| CUMULATIVE WBE COST           | 0    | 2   | 10  | 22  | 35    | 50    |      |  |  |  |  |  |
| MONTHLY WBE %                 | 0    | 1   | 2   | 3   | 2     | 3     |      |  |  |  |  |  |
| MONTHLY VARIANCE WBE %        | 0    | <2> | <1> | 0   | <1>   | 0     |      |  |  |  |  |  |
| CUMULATIVE VARIANCE WBE %     | 0    | <2> | <2> | <1> | <1>   | <1>   |      |  |  |  |  |  |

FIGURE 2 - WBE ANALYSIS

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# LOS ANGELES METRO RAIL

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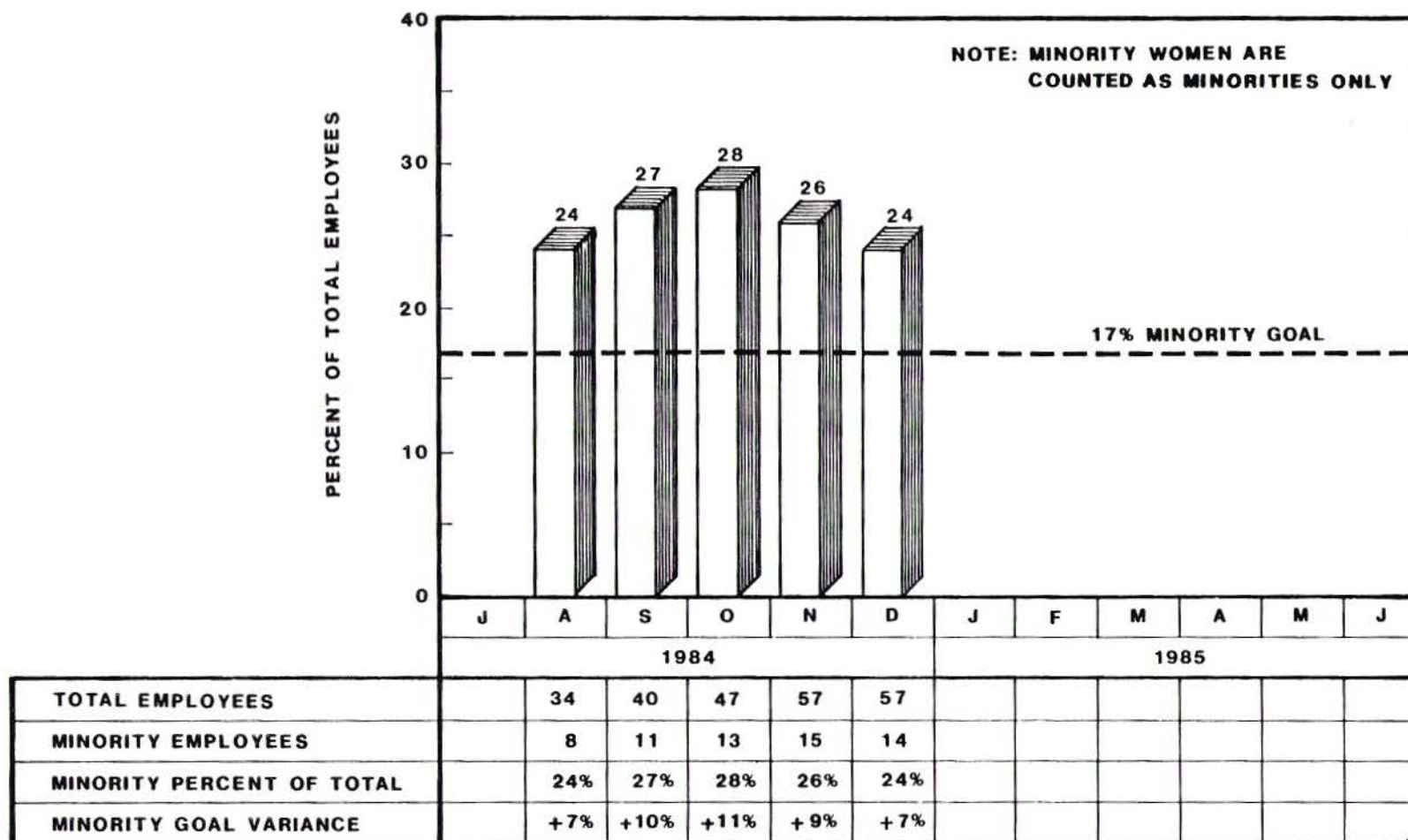


FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS

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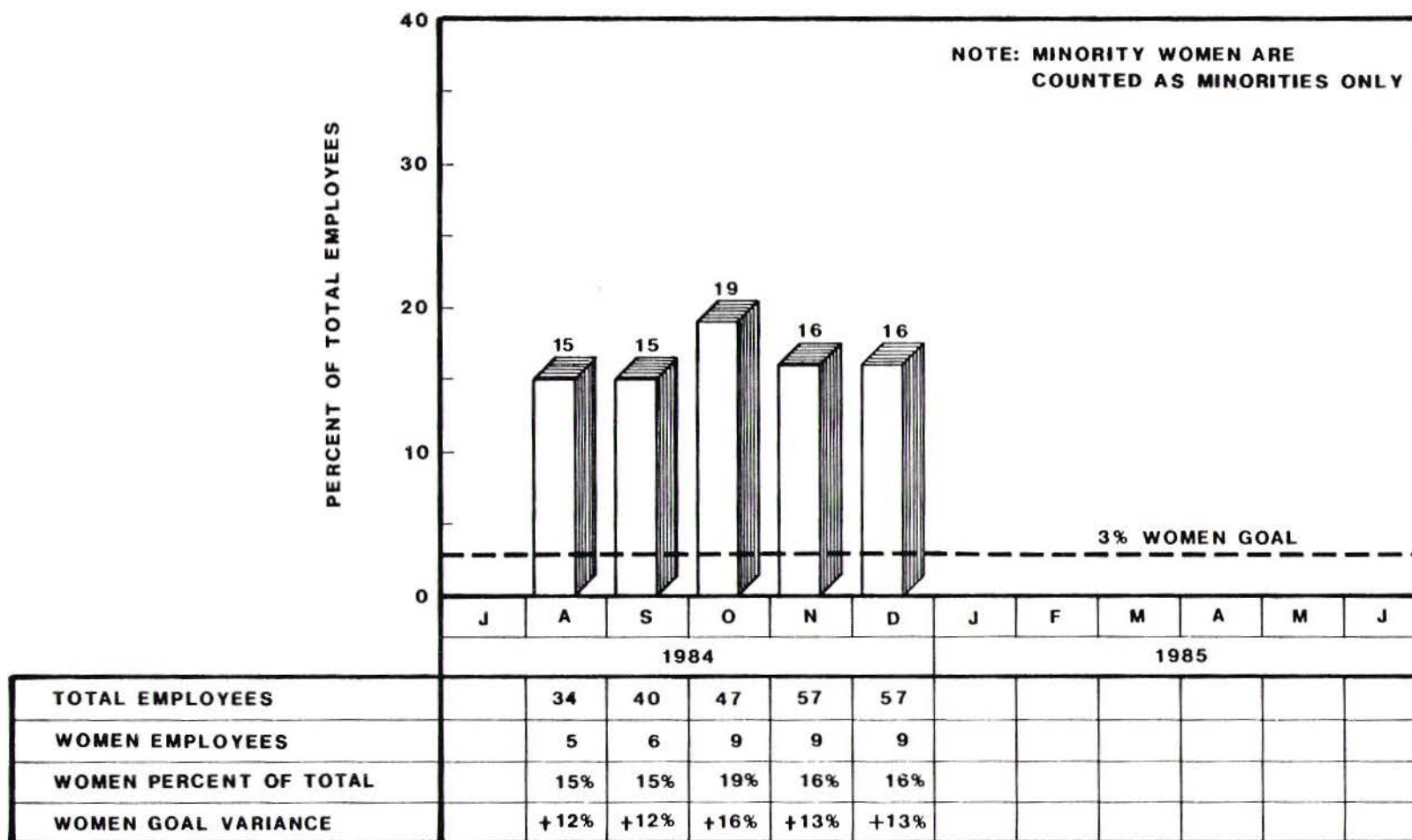


FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

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## LOS ANGELES METRO RAIL

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#### IV. Schedule Performance

Of the nine design packages received during December, 7 were completed and two were delayed due to the MOS-1 Priority Schedule. Two design packages received in November were also completed in December. Six design packages are scheduled for receipt in January.

In December, six previously received estimates were completed and four new estimates were received. a total of eleven estimate review packages are scheduled for completed in January.

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DESIGN PACKAGE STATUS WINDOW REPORT - FAST WINDOW  
12-01-84 TO 12-28-84

01-04-85

PAGE 1

DATE OF ISSUE 01-04-85

ISSUE # 1

| Contract # | Description                             | Pkg Type | Review Code | Schedule Receipt | Received | Schedule Complete | Actual Complete | SC | Remarks                                                                                                                   |
|------------|-----------------------------------------|----------|-------------|------------------|----------|-------------------|-----------------|----|---------------------------------------------------------------------------------------------------------------------------|
| A-112      | SERVICE AREA & MAIN SHOP                | DWG      | FS100       | 12-13-84         | 12-13-84 | 12-13-84          | 12-13-84        |    | TABLE TOP REVIEW AT RTD                                                                                                   |
| A-112      | SERVICE AREA & MAIN SHOP                | SPC      | FS100       | 12-13-84         | 12-13-84 | 12-13-84          | 12-13-84        |    | TABLE TOP REVIEW AT RTD                                                                                                   |
| **         |                                         |          |             |                  |          |                   |                 |    |                                                                                                                           |
| A-133      | BAGGAGE HANDLING FACILITY               | DWG      | PF85        | 12-19-84         | 12-19-84 | 12-21-84          |                 |    | OTHER MOS-1 PRIORITY REVIEWS<br>IN PROGRESS WHEN MATERIAL<br>RECEIVED. REVIEW IN PROGRESS<br>DATE SET FOR JANUARY 7, 1985 |
| A-133      | BAGGAGE HANDLING FACILITY               | SPC      | PF85        | 12-19-84         | 12-19-84 | 12-21-84          |                 |    |                                                                                                                           |
| **         |                                         |          |             |                  |          |                   |                 |    |                                                                                                                           |
| A-135      | UNION STATION STAGE I                   | DWG      | PF85        | 12-05-84         | 12-07-84 | 12-27-84          | 12-27-84        |    |                                                                                                                           |
| A-135      | UNION STATION STAGE I                   | SPC      | PF85        | 12-05-84         | 12-07-84 | 12-27-84          | 12-27-84        |    |                                                                                                                           |
| **         |                                         |          |             |                  |          |                   |                 |    |                                                                                                                           |
| A-136      | UNION STATION AND<br>CROSSOVER STAGE II | DWG      | PF85        | 12-05-84         | 12-07-84 | 12-27-84          | 12-27-84        |    |                                                                                                                           |
| A-136      | UNION STATION AND<br>CROSSOVER STAGE II | SPC      | PF85        | 12-05-84         | 12-07-84 | 12-27-84          | 12-27-84        |    |                                                                                                                           |
| **         |                                         |          |             |                  |          |                   |                 |    |                                                                                                                           |
| A-140      | CIVIC CENTER STATION<br>(STAGE I)       | EST      | PF85        |                  | 12-27-84 |                   |                 |    |                                                                                                                           |
| **         |                                         |          |             |                  |          |                   |                 |    |                                                                                                                           |
| A-140A     | LINE TUNNEL                             | EST      | IP60        |                  | 09-05-84 | 12-13-84          | 12-17-84        |    |                                                                                                                           |
| **         |                                         |          |             |                  |          |                   |                 |    |                                                                                                                           |
| A-140B     | 5TH/HILL STATION (STAGE<br>I)           | EST      | IP60        |                  | 09-05-84 | 12-18-84          | 12-17-84        |    |                                                                                                                           |

Review Codes : LT60 - Less than 60% IP60 - In Progress 60% PF85 - Prefinal 85%  
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule  
2) Additional dates from the Dec. 17, MRTC Design Status Report

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PDCD

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DESIGN PACKAGE STATUS WINDOW REPORT - PAST WINDOW  
12-01-84 TO 12-28-84

01-04-85

PAGE 2

DATE OF ISSUE 01-04-85

ISSUE # 1

| Contract # | Description                               | Pkg Type | Review Code | Schedule Receipt | Received | Schedule Complete | Actual Complete | SC | Remarks                                                                 |
|------------|-------------------------------------------|----------|-------------|------------------|----------|-------------------|-----------------|----|-------------------------------------------------------------------------|
| **         |                                           |          |             |                  |          |                   |                 |    |                                                                         |
| A 142      | CIVIC CENTER STATION EXCAVATION & SUPPORT | DWG      | FS100       |                  | 12-17-84 | 12-21-84          | 12-21-84        |    | MARKED UP DRAWINGS AND SPECS. SENT 12-21-84. FORMAL COMMENTS TO FOLLOW. |
| A-142      | CIVIC CENTER STATION EXCAVATION & SUPPORT | SPC      | FS100       |                  | 12-17-84 | 12-21-84          | 12-21-84        |    | MARKED UP DRAWINGS AND SPECS. SENT 12-21-84. FORMAL COMMENTS TO FOLLOW. |
| **         |                                           |          |             |                  |          |                   |                 |    |                                                                         |
| A-165      | 7TH/FLOWER STATION (STAGE I)              | DWG      | PF85        | 11-26-84         | 11-28-84 | 12-14-84          | 12-06-84        |    |                                                                         |
| A-165      | 7TH/FLOWER STATION (STAGE I)              | EST      | IP60        |                  | 09-17-84 | 12-19-84          | 12-17-84        |    |                                                                         |
| A-165      | 7TH/FLOWER STATION (STAGE I)              | SPC      | PF85        | 11-26-84         | 12-04-84 | 12-14-84          | 12-06-84        |    |                                                                         |
| **         |                                           |          |             |                  |          |                   |                 |    |                                                                         |
| A-167      | 7TH/FLOWER STATION (STAGE II)             | DWG      | PF85        | 11-26-84         | 11-28-84 | 12-14-84          | 12-12-84        |    | INCLUDED IN A-165                                                       |
| A-167      | 7TH/FLOWER STATION (STAGE II)             | SPC      | PF85        | 11-26-84         | 12-04-84 | 12-14-84          | 12-12-84        |    |                                                                         |
| **         |                                           |          |             |                  |          |                   |                 |    |                                                                         |
| A-170      | LINE TUNNEL                               | DWG      | PF85        | 11-29-84         | 12-04-84 | 12-10-84          | 12-18-84        |    |                                                                         |
| A-170      | LINE TUNNEL                               | EST      | IP60        |                  | 09-17-84 | 12-17-84          | 12-17-84        |    | WITH A-170A                                                             |
| A 170      | LINE TUNNEL                               | SPC      | PF85        | 11-29-84         | 12-04-84 | 12-10-84          | 12-18-84        |    |                                                                         |
| **         |                                           |          |             |                  |          |                   |                 |    |                                                                         |
| A-170A     | WILSHIRE/ALVARADO STATION                 | DWG      | PF85        | 11-29-84         | 12-04-84 | 12-10-84          | 12-18-84        |    |                                                                         |

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%  
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule  
2) Additional dates from the Dec. 17, MRTC Design Status Report

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL  
DECEMBER CONSTRUCTIBILITY REVIEW ACTIVITIES

PDCD

PERIOD December 1984

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12-01-84 TO 12-28-84  
DATE OF ISSUE 01-04-85  
ISSUE # 1

| Contract # | Description                             | Pks<br>Type | Review<br>Code | Schedule<br>Receipt | Received | Schedule<br>Complete | Actual<br>Complete | SC | Remarks                                                       |
|------------|-----------------------------------------|-------------|----------------|---------------------|----------|----------------------|--------------------|----|---------------------------------------------------------------|
|            | (STAGE I)                               |             |                |                     |          |                      |                    |    |                                                               |
| A-170A     | WILSHIRE/ALVARADO STATION<br>(STAGE I)  | EST         | PF85           |                     | 09-20-84 | 12-17-84             | 12-17-84           |    |                                                               |
| A-170A     | WILSHIRE/ALVARADO STATION<br>(STAGE I)  | SPC         | PF85           | 11-29-84            | 12-04-84 | 12-10-84             | 12-18-84           |    |                                                               |
| **         |                                         |             |                |                     |          |                      |                    |    |                                                               |
| A-187      | WILSHIRE/ALVARADO STATION<br>(STAGE II) | DWG         | PF85           | 11-29-84            | 12-04-84 | 12-10-84             | 12-21-84           |    |                                                               |
| A-187      | WILSHIRE/ALVARADO STATION<br>(STAGE II) | EST         | PF85           |                     | 12-19-84 |                      |                    |    |                                                               |
| A-187      | WILSHIRE/ALVARADO STATION<br>(STAGE II) | SPC         | PF85           | 11-29-84            | 12-04-84 | 12-10-84             | 12-21-84           |    |                                                               |
| **         |                                         |             |                |                     |          |                      |                    |    |                                                               |
| A-195      | WILSHIRE/VERMONT STATION<br>(STAGE I)   | DWG         | PF85-1         | 12-28-84            | 01-02-85 | 01-14-85             |                    |    | W/ SEISMIC                                                    |
| A-195      | WILSHIRE/VERMONT STATION<br>(STAGE I)   | SPC         | PF85-1         | 12-28-84            | 01-02-85 | 01-14-85             |                    |    | W/ SEISMIC                                                    |
| **         |                                         |             |                |                     |          |                      |                    |    |                                                               |
| A-250      | WILSHIRE/FAIRFAX STATION<br>(STAGE I)   | DWG         | IP60           | 11-16-84            | 11-20-84 | 12-03-84             |                    |    | MOS-1 CONTRACTS HAVE PRIORITY.<br>ESTIMATED DATE OF 01-08-84. |
| A-250      | WILSHIRE/FAIRFAX STATION<br>(STAGE I)   | EST         | IP60           |                     | 12-03-84 |                      |                    |    |                                                               |
| A-250      | WILSHIRE/FAIRFAX STATION<br>(STAGE I)   | SPC         | IP60           | 11-16-84            | 11-20-84 | 12-03-84             |                    |    | MOS-1 CONTRACTS HAVE PRIORITY.<br>ESTIMATED DATE OF 01-08-    |
| **         |                                         |             |                |                     |          |                      |                    |    |                                                               |

Review Codes : LT60 - Less than 60% IP60 - In Progress 60% PF85 - Prefinal 85%  
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule  
2) Additional dates from the Dec. 17, MRTC Design Status Report

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL  
DECEMBER CONSTRUCTIBILITY REVIEW ACTIVITIES

PDCD

PERIOD December 1984

SPC20511

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DESIGN PACKAGE STATUS WINDOW REPORT - PAST WINDOW  
12-01-84 TO 12-28-84

01-04-85

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DATE OF ISSUE 01-04-85

ISSUE # 1

| Contract # | Description                            | Pkg Type | Review Code | Schedule Receipt | Received | Schedule Complete | Actual Complete | SC | Remarks                                                    |
|------------|----------------------------------------|----------|-------------|------------------|----------|-------------------|-----------------|----|------------------------------------------------------------|
| A-267      | WILSHIRE/FAIRFAX STATION (STAGE II)    | DWG      | IP60        | 11-16-84         | 11-20-84 | 12-03-84          |                 |    | INCLUDED WITH A-250                                        |
| A-267      | WILSHIRE/FAIRFAX STATION (STAGE II)    | EST      | IP60        |                  | 12-03-84 |                   |                 |    |                                                            |
| A-267      | WILSHIRE/FAIRFAX STATION (STAGE II)    | SPC      | IP60        | 11-15-84         | 11-20-84 | 12-03-84          |                 |    | MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-08-85. |
| **         |                                        |          |             |                  |          |                   |                 |    |                                                            |
| A-310      | LINE TUNNEL                            | DWG      | IP60        | 11-15-84         | 11-16-84 | 12-03-84          | 11-30-84        |    |                                                            |
| A-310      | LINE TUNNEL                            | SPC      | IP60        | 11-15-84         | 11-16-84 | 12-03-84          | 11-30-84        |    |                                                            |
| **         |                                        |          |             |                  |          |                   |                 |    |                                                            |
| A-327      | FAIRFAX/SANTA MONICA STATION (STAGE I) | DWG      | IP60        | 11-15-84         | 11-16-84 | 12-03-84          | 11-30-84        |    | INCLUDED WITH A-310                                        |
| A-327      | FAIRFAX/SANTA MONICA STATION (STAGE I) | SPC      | IP60        | 11-15-84         | 11-16-84 | 12-03-84          | 11-30-84        |    |                                                            |
| **         |                                        |          |             |                  |          |                   |                 |    |                                                            |
| A-410      | LINE TUNNEL CAHUENGA TO UNIVERSAL CITY | DWG      | PF85        | 11-29-84         | 12-04-84 | 12-17-84          |                 |    | MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-25-85  |
| A-410      | LINE TUNNEL CAHUENGA TO UNIVERSAL CITY | SPC      | PF85        | 11-29-84         | 12-04-84 | 12-17-84          |                 |    | MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-25-85. |
| **         |                                        |          |             |                  |          |                   |                 |    |                                                            |

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%  
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTD Design Review Schedule  
2) Additional dates from the Dec. 17, MRTD Design Status Report

Parsons-Dillingham-De Leuw, Cather



# LOS ANGELES METRO RAIL

## JANUARY CONSTRUCTIBILITY REVIEW ACTIVITIES

PDCD

PERIOD December 1984

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DESIGN PACKAGE STATUS WINDOW REPORT - NEXT PERIOD  
12-31-84 TO 01-25-85

01-04-85

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ISSUE # 1

| Contract # | Description                          | Pkg Type | Review Code | Schedule Receipt | Received | Schedule Complete | Actual Complete | SC | Remarks    |
|------------|--------------------------------------|----------|-------------|------------------|----------|-------------------|-----------------|----|------------|
| A-115      | STORAGE YARD                         | EST      | IP60        |                  | 10-01-84 | 01-01-85          |                 |    |            |
| **         |                                      |          |             |                  |          |                   |                 |    |            |
| A-135      | UNION STATION STAGE I                | EST      | IP60        |                  | 09-17-84 | 01-07-85          | 12-17-84        |    |            |
| **         |                                      |          |             |                  |          |                   |                 |    |            |
| A-187      | WILSHIRE/ALVARADO STATION (STAGE II) | EST      | IP60        |                  | 09-17-84 | 01-15-85          |                 |    |            |
| **         |                                      |          |             |                  |          |                   |                 |    |            |
| A-195      | WILSHIRE/VERMONT STATION (STAGE I)   | DWG      | PF85-1      | 12-28-84         | 01-02-85 | 01-14-85          |                 |    | W/ SEISMIC |
| A-195      | WILSHIRE/VERMONT STATION (STAGE I)   | EST      | LT60        |                  | 09-05-84 | 01-18-85          |                 |    |            |
| A-195      | WILSHIRE/VERMONT STATION (STAGE I)   | SPC      | PF85-1      | 12-28-84         | 01-02-85 | 01-14-85          |                 |    | W/ SEISMIC |
| **         |                                      |          |             |                  |          |                   |                 |    |            |
| A-220      | LINE TUNNEL                          | EST      | IP60        |                  | 09-26-84 | 01-23-85          |                 |    |            |
| **         |                                      |          |             |                  |          |                   |                 |    |            |
| A-220A     | WILSHIRE/WESTERN STATION (STAGE I)   | DWG      | PF85        | 01-14-85         |          |                   |                 |    |            |
| A-220A     | WILSHIRE/WESTERN STATION (STAGE I)   | SPC      | PF85        | 01-14-85         |          |                   |                 |    |            |
| **         |                                      |          |             |                  |          |                   |                 |    |            |
| A-240      | WILSHIRE/CRENSHAW STATION (STAGE I)  | EST      | IP60        |                  | 10-08-84 | 01-25-85          |                 |    |            |
| **         |                                      |          |             |                  |          |                   |                 |    |            |

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%  
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTD Design Review Schedule  
2) Additional dates from the Dec. 17, MRTD Design Status Report

Parsons-Dillingham-De Leuw, Cather



# LOS ANGELES METRO RAIL

## JANUARY CONSTRUCTIBILITY REVIEW ACTIVITIES

**PDCD**PERIOD December 1984

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PDCD

DESIGN PACKAGE STATUS WINDOW REPORT - NEXT PERIOD  
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DATE OF ISSUE 01-04-85

ISSUE # 1

| Contract # | Description                               | Pks<br>Type | Review<br>Code | Schedule<br>Receipt | Received | Schedule<br>Complete | Actual<br>Complete | SC | Remarks |
|------------|-------------------------------------------|-------------|----------------|---------------------|----------|----------------------|--------------------|----|---------|
| A-275      | FAIRFAX/BEVERLY STATION<br>(STAGE 1)      | DWG         | PF85           | 01-18-85            |          |                      |                    |    |         |
| A-275      | FAIRFAX/BEVERLY STATION<br>(STAGE 1)      | EST         | IP60           |                     | 09-05-84 | 01-03-85             |                    |    |         |
| A-275      | FAIRFAX/BEVERLY STATION<br>(STAGE 1)      | SPC         | PF85           | 01-18-85            |          |                      |                    |    |         |
| **         |                                           |             |                |                     |          |                      |                    |    |         |
| A-410      | LINE TUNNEL CAHUENGA TO<br>UNIVERSAL CITY | DWG         | FS100          | 01-23-85            |          |                      |                    |    |         |
| A-410      | LINE TUNNEL CAHUENGA TO<br>UNIVERSAL CITY | SPC         | FS100          | 01-23-85            |          |                      |                    |    |         |
| **         |                                           |             |                |                     |          |                      |                    |    |         |
| A-610      | TRACKWORK - MAINLINE<br>TRACKWORK         | DWG         | IP60           | 01-17-85            |          |                      |                    |    |         |
| A-610      | TRACKWORK - MAINLINE<br>TRACKWORK         | SPC         | IP60           | 01-17-85            |          |                      |                    |    |         |
| **         |                                           |             |                |                     |          |                      |                    |    |         |
| A-630      | PROCURE TRACTION POWER                    | DWG         | PF85           | 01-04-85            |          |                      |                    |    |         |
| A-630      | PROCURE TRACTION POWER                    | EST         | IP60           |                     | 09-26-84 | 01-04-85             |                    |    |         |
| A-630      | PROCURE TRACTION POWER                    | SPC         | PF85           | 01-04-85            |          |                      |                    |    |         |
| **         |                                           |             |                |                     |          |                      |                    |    |         |
| A-640      | COMMUNICATION                             | EST         | IP60           |                     | 09-26-84 | 01-11-85             |                    |    |         |
| **         |                                           |             |                |                     |          |                      |                    |    |         |
| A-650      | PASSENGER VEHICLE                         | EST         | IP60           |                     | 09-26-84 | 01-18-85             |                    |    |         |

Review Codes : LT60 - Less than 60%

FS100 - Final submittal 100%

IP60 - In progress 60%

DC100 - Final design complete 100%

PF85 - Prefinal 85%

NOTES :

1) Based on Jan. 2, MRTD Design Review Schedule

2) Additional dates from the Dec. 17, MRTD Design Status Report

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL  
JANUARY CONSTRUCTIBILITY REVIEW ACTIVITIES

PDCD

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DESIGN PACKAGE STATUS WINDOW REPORT - NEXT PERIOD  
12-31-84 TO 01-25-85

01-04-85

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DATE OF ISSUE 01-04-85

ISSUE # 1

| Contract # | Description     | Pkg<br>Type | Review<br>Code | Schedule<br>Receipt | Received | Schedule<br>Complete | Actual<br>Complete | SC | Remarks |
|------------|-----------------|-------------|----------------|---------------------|----------|----------------------|--------------------|----|---------|
| **         |                 |             |                |                     |          |                      |                    |    |         |
| A-660      | FARE COLLECTION | EST         | IP60           |                     | 09-26-84 | 01-25-85             |                    |    |         |
| **         |                 |             |                |                     |          |                      |                    |    |         |

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%  
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule  
2) Additional dates from the Dec. 17, MRTC Design Status Report

Parsons-Dillingham-De Leuw, Cather

**MINIMUM OPERABLE SEGMENT (PHASE A1)**  
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

| CONTRACT NUMBER |        | DESCRIPTION                                                            | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|------------------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                                        |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A100            | A111   | SITWORK - CURBS, GUTTERS & SIDEWALK CONSTRUCTION ALONG SANTA FE AVENUE | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A112   | MAIN SHOP BUILDING AND YARD SERVICE AREA                               | DESIGN        | ◆        |   |    |    |    |          | ◆  |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A114   | MAINTENANCE-OF-WAY SHOP BLDG.                                          | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A115   | YARD STORAGE AREA                                                      | DESIGN        |          |   |    | ◆  |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | COST ESTIMATE | ◆        |   |    |    |    |          |    |    |    | ◆       |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A116   | YARD SITE SECURITY FENCING                                             | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A117   | YARD SITE LIGHTING                                                     | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◆ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

**MINIMUM OPERABLE SEGMENT (PHASE A1)**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                                                             | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|-------------------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                                         |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A100            | A118   | YARD SITE LANDSCAPING                                                   | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A119   | TRACK RELOCATION,<br>FIRST STREET AND<br>HOBART YARD (FORCE<br>ACCOUNT) | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A130   | YARD LEADS AND TRANSFER<br>ZONE                                         | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A135            | A133   | UNION STATION REPLACE-<br>MENT BAGGAGE HANDLING<br>FACILITIES           | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A135   | UNION STATION, STAGE I<br>AND DOUBLE CROSSOVER                          | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A136   | UNION STATION, STAGE II<br>AND DOUBLE CROSSOVER                         | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                         | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◊ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

**MINIMUM OPERABLE SEGMENT (PHASE A1 )**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                                                                            | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |  |
|-----------------|--------|----------------------------------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|--|
| DESIGN          | CONST. |                                                                                        |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |  |
| A135            | A138   | UNION STATION SITEWORK -<br>(CURBS, GUTTERS, SIDE-<br>WALKS AND PAVING AT<br>EAST END) | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 | A139   | UNION STATION SITE<br>LANDSCAPING                                                      | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
| A137            | A137   | CENTRAL CONTROL<br>FACILITY                                                            | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
| A140            | A141   | LINE SECTION, UNION<br>STATION TO 7TH/FLOWER<br>AND CIVIC CENTER<br>STATION - STAGE I  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 | A142   | CIVIC CENTER EXCAVATION<br>SUPPORT & UTILITY<br>RELOCATION                             | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 | A147   | CIVIC CENTER STATION<br>STAGE II                                                       | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |
|                 |        |                                                                                        | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |  |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTCD DESIGN SCHEDULE

**MINIMUM OPERABLE SEGMENT (PHASE A1)**  
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

| CONTRACT NUMBER |        | DESCRIPTION                                                         | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|---------------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                                     |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A140            | A145   | 5TH/HILL STATION, STAGE I                                           | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | COST ESTIMATE | ←        |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A157   | 5TH/HILL STATION, STAGE II                                          | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A148            | A148   | 5TH/HILL, VAULTS RELOCATION                                         | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A165            | A166   | LINE SECTION 5TH/HILL TO 7TH/FLOWER AND 7TH/FLOWER STATION, STAGE I | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | COST ESTIMATE | ←        |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A167   | 7TH/FLOWER STATION, STAGE II                                        | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A170            | A171   | LINE SECTION, 7TH/FLOWER TO WILSHIRE/ALVARADO                       | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | COST ESTIMATE | ←        |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

**MINIMUM OPERABLE SEGMENT (PHASE A1)**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                                                | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                            |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A170            | A175   | WILSHIRE/ALVARADO STATION, STAGE I                         | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A187   | WILSHIRE/ALVARADO STATION, STAGE II                        | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A185   | WILSHIRE/ALVARADO SITEWORK (CURBS, GUTTERS, AND SIDEWALKS) | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A186   | WILSHIRE/ALVARADO SITE LANDSCAPING                         | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                            | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**

DATA DATE

SCHEDULED/FORECAST

ACTUAL

**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

Ⓐ  
Ⓔ

ADVERTISE FOR BIDS

NOTICE TO PROCEED

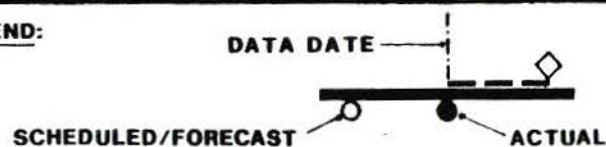
PDCD REVIEW PERIOD

MRTC DESIGN SCHEDULE

**FOLLOW-ON SEGMENT (PHASE A2)**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                                                                                                           | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                                                                                       |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A195            | A196   | WILSHIRE/VERMONT STATION, STAGE I<br>LINE SECTION<br>WILSHIRE/ALVARADO TO<br>WILSHIRE/VERMONT                         | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A197   | WILSHIRE/VERMONT STATION<br>STAGE II                                                                                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A220            | A220   | WILSHIRE/NORMANDIE STATION AND WILSHIRE/<br>WESTERN STATION, STAGE I<br>LINE SECTION WILS/VERM<br>TO WILSHIRE/LA BREA | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A227   | WILSHIRE/NORMANDIE STATION<br>STAGE II                                                                                | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A240            | A237   | WILSHIRE/WESTERN STATION<br>STAGE II                                                                                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A240   | WILSHIRE/CRENSHAW STATION, STAGE I                                                                                    | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                       | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

**FOLLOW-ON SEGMENT (PHASE A2)**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                                                                                  | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|----------------------------------------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                                                              |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A240            | A242   | WILSHIRE/CRENSHAW STATION, STAGE II                                                          | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A245            | A245   | WILSHIRE/LA BREA STATION, STAGE I                                                            | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A247   | WILSHIRE/LA BREA STATION, STAGE II                                                           | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A250            | A250   | WILSHIRE/FAIRFAX STATION, STAGE I LINE SECTION - WILSHIRE/LA BREA TO FAIRFAX/BEVERLY STATION | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A252   | WILSHIRE/FAIRFAX TEST PIT                                                                    | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A267   | WILSHIRE/FAIRFAX STATION, STAGE II                                                           | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                              | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

FOLLOW-ON SEGMENT (PHASE A2)  
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

| CONTRACT NUMBER |        | DESCRIPTION                       | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|-----------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                   |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A275            | A275   | FAIRFAX/BEVERLY STATION, STAGE I  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A277            | A277   | FAIRFAX/BEVERLY STATION, STAGE II | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                   | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

**FOLLOW-ON SEGMENT (PHASE A3)**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                                                                                                          | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|----------------------------------------------------------------------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                                                                                      |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A310            | A320   | LINE SECTION - FAIRFAX/<br>BEVERLY TO FAIRFAX/<br>SANTA MONICA STATION &<br>FAIRFAX/SANTA MONICA<br>STATION, STAGE I | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A327   | FAIRFAX/SANTA MONICA<br>STATION<br>STAGE II                                                                          | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A330   | LINE SECTION<br>FAIRFAX/SANTA MONICA TO<br>HOLLYWOOD/CAHUENGA,<br>LA BREA/SUNSET STATION<br>STAGE I                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A347   | LA BREA/SUNSET<br>STATION<br>STAGE II                                                                                | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A350            | A350   | HOLLYWOOD/CAHUENGA<br>STATION<br>STAGE I                                                                             | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A352   | HOLLYWOOD/CAHUENGA<br>STATION<br>STAGE II                                                                            | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

**FOLLOW-ON SEGMENT (PHASE A4)**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                                                              | DOCUMENT      | NOVEMBER                                                                             |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|--------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                                          |               | 2                                                                                    | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A410            | A410   | LINE SECTION -<br>HOLLYWOOD/CAHUENGA TO<br>UNIVERSAL CITY                | DESIGN        |    |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | COST ESTIMATE |    |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | BID PACKAGE   |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A415            | A415   | HOLLYWOOD BOWL<br>STATION<br>STAGE I<br>(CONSTRUCTION DEFERRED)          | DESIGN        |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | COST ESTIMATE |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | BID PACKAGE   |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A415   | HOLLYWOOD BOWL<br>STATION<br>STAGE II<br>(CONSTRUCTION DEFERRED)         | DESIGN        |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | COST ESTIMATE |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | BID PACKAGE   |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A425            | A425   | UNIVERSAL CITY<br>STATION, STAGE I                                       | DESIGN        |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | COST ESTIMATE |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | BID PACKAGE   |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A427   | UNIVERSAL CITY<br>STATION, STAGE II                                      | DESIGN        |  |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | COST ESTIMATE |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | BID PACKAGE   |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A430            | A430   | LINE BETWEEN UNIVERSAL<br>CITY STATION AND<br>NORTH HOLLYWOOD<br>STATION | DESIGN        |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | COST ESTIMATE |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                                          | BID PACKAGE   |                                                                                      |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

**FOLLOW-ON SEGMENT (PHASE A4)**  
**(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)**

| CONTRACT NUMBER |        | DESCRIPTION                      | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|----------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                  |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A445            | A445   | NORTH HOLLYWOOD STATION STAGE I  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A447   | NORTH HOLLYWOOD STATION STAGE II | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                  | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
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- Ⓐ ADVERTISE FOR BIDS
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- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

SYSTEMWIDE  
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

| CONTRACT NUMBER |        | DESCRIPTION                                         | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|-----------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                     |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A610            | A610   | TRACKWORK - FURNISH & INSTALL                       | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A612            | A612   | CONTACT RAIL - PROCURE                              | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A615            | A615   | PROTECTIVE COVERBOARD - PROCURE                     | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A620            | A620   | AUTOMATIC TRAIN CONTROL - DESIGN, FURNISH & INSTALL | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A630            | A630   | TRACTION POWER EQUIPMENT - PROCURE                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A631            | A631   | TRACTION POWER - INSTALL                            | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                     | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**



**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

SYSTEMWIDE  
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

| CONTRACT NUMBER |        | DESCRIPTION                                          | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                      |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A640            | A640   | COMMUNICATIONS -<br>DESIGN, FURNISH,<br>AND INSTALL  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A650            | A650   | PASSENGER VEHICLES -<br>PROCURE                      | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE | ←        |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A660            | A660   | FARE COLLECTION -<br>DESIGN, FURNISH,<br>AND INSTALL | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE | ←        |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A670            | A671   | LOCOMOTIVE - PROCURE<br>(M.O.S.-1)                   | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A672   | FLAT CARS - PROCURE<br>(M.O.S.-1)                    | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 | A675   | CRANE FOR FLAT CAR<br>(M.O.S.-1) - PROCURE           | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**

DATA DATE

SCHEDULED/FORECAST

ACTUAL

**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

(A)  
(N)

- ADVERTISE FOR BIDS
- NOTICE TO PROCEED
- PD CD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

SYSTEMWIDE  
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

| CONTRACT NUMBER |        | DESCRIPTION                                    | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A680            | A680   | OPERATIONAL GRAPHICS - PROCURE                 | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A710            | A710   | ESCALATORS - FURNISH AND INSTALL               | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A720            | A720   | ELEVATORS - FURNISH AND INSTALL                | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A730            | A730   | "FIXED" SHOP EQUIPMENT - FURNISH AND INSTALL   | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A735            | A735   | FREESTANDING/PORTABLE SHOP EQUIPMENT - PROCURE | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A740            | A740   | FANS - PROCURE                                 | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**

DATA DATE

SCHEDULED/FORECAST

ACTUAL

**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

Ⓐ  
Ⓝ

ADVERTISE FOR BIDS

NOTICE TO PROCEED

PDCD REVIEW PERIOD

MRTC DESIGN SCHEDULE

SYSTEMWIDE  
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

| CONTRACT NUMBER |        | DESCRIPTION                                          | DOCUMENT      | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    |   |
|-----------------|--------|------------------------------------------------------|---------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---|
| DESIGN          | CONST. |                                                      |               | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 | 1 |
| A745            | A745   | TPSS AIR HANDLING EQUIPMENT - PROCURE                | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A760            | A760   | SIGNS & GRAPHICS - PROCURE                           | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A770            | A770   | RUBBER TIRED VEHICLES - PROCURE                      | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A775            | A775   | MOBILE EMERGENCY AND MAINTENANCE EQUIPMENT - PROCURE | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A780            | A780   | FURNITURE - PROCURE                                  | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
| A790            | A790   | FIRST STORES AND CONSUMABLES - PROCURE               | DESIGN        |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | COST ESTIMATE |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |
|                 |        |                                                      | BID PACKAGE   |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |   |

**LEGEND:**

DATA DATE

SCHEDULED/FORECAST

ACTUAL

**REVIEW STATUS:**

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

(A)  
(N)

ADVERTISE FOR BIDS  
NOTICE TO PROCEED  
PDCD REVIEW PERIOD  
MRTC DESIGN SCHEDULE

# CM SERVICES IN-HOUSE SCHEDULE

| DESCRIPTION                            | RESPON-<br>SIBILITY | NOVEMBER |   |    |    |    | DECEMBER |    |    |    | JANUARY |    |    |    | FEBRUARY |   |    |    | REMARKS |                     |
|----------------------------------------|---------------------|----------|---|----|----|----|----------|----|----|----|---------|----|----|----|----------|---|----|----|---------|---------------------|
|                                        |                     | 2        | 9 | 16 | 23 | 30 | 7        | 14 | 21 | 28 | 4       | 11 | 18 | 25 | 1        | 8 | 15 | 22 |         | 1                   |
| C. M. PROCEDURES:                      |                     |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 1) C.M. ORGANIZATION                   |                     | ▲        |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 2) ESTABLISH O&M OF<br>DOWNTOWN OFFICE |                     | ■        | ■ | ■  | ■  | ■  | ■        | ■  | ■  |    |         |    |    |    |          |   |    |    |         |                     |
| 3) MANAGEMENT OF<br>CONST. CHANGES     |                     |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         | PART OF R.E. MANUAL |
| 4) QUALITY ASSURANCE                   |                     | ■        | ■ | ■  | ■  | ■  | ■        | ■  | ■  | ■  | ■       | ■  | ■  | ■  | ▲        |   |    |    |         |                     |
| 5) PERMITS & LICENSES                  |                     | ■        | ■ | ■  | ▲  |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 6) COORD. BETWEEN<br>CONTRACTORS       |                     | ■        | ■ | ■  | ▲  |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 7) SAFETY MONITORING                   |                     | ■        | ■ | ■  | ▲  |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 8) COORDINATE UTILITIES<br>& TRAFFIC   |                     | ■        | ■ | ■  | ▲  |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 9) CONFIGURATION<br>CONTROL            |                     | ■        | ■ | ■  | ■  | ■  | ■        | ■  | ■  | ■  | ■       | ■  | ■  | ■  | ■        | ■ | ■  | ■  | ■       |                     |
| 10) SAFETY PLAN                        |                     | ■        | ■ | ■  | ▲  |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 11) RESIDENT ENGINEERS<br>MANUAL       |                     |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
| 12) STAFFING PLAN                      |                     | ■        | ■ | ■  | ■  | ■  | ■        | ■  | ■  |    |         |    |    |    |          |   |    |    |         |                     |
| 13) COST & SCHEDULING                  |                     | ■        | ■ | ■  | ■  | ■  | ■        | ■  | ■  | ■  | ■       | ■  | ■  | ■  | ■        | ■ | ■  | ■  | ■       |                     |
| 14) OTHERS AS REQUIRED<br>BY CM        |                     |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
|                                        |                     |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
|                                        |                     |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |
|                                        |                     |          |   |    |    |    |          |    |    |    |         |    |    |    |          |   |    |    |         |                     |

SCHED.

ACTUAL



DRAFT TO RTD



FINAL SUBMITTAL TO RTD



**LOS ANGELES METRO RAIL**  
**CONTRACT PERFORMANCE**  
**REPORT**

**PDCD**

**PERIOD** December 1984

**V. COST PERFORMANCE**

During the current reporting period, December 1, 1984, through December 28, 1984, the total cost was \$532,739, which is \$35,525 under plan. The cumulative cost to date is \$2,125,318, bringing the cumulative underun to \$669,317.

The breakdown by expenditure category is shown in Figure 2, page V-3.

PDCD labor burdens and fee accounted for \$198,000 of the current month's expenditure. The planned expenditure was \$294,000. The variance under plan of \$96,000 is attributable to holidays and vacation time taken at year-end. Secondly, the current period had 144 available work hours while the plan was based on an average of 157 available work hours.

Travel and ODC costs for the month were \$221,000 versus a plan of \$121,000. Cumulative ODC and Travel costs total \$542,000 versus a plan of \$602,000, leaving a \$60,000 cumulative underun. The high cost during December is attributable to relocation expense accrued at the time of commitment. To date, \$94,000 has been paid in relocation costs and an additional \$150,000 has been accrued.

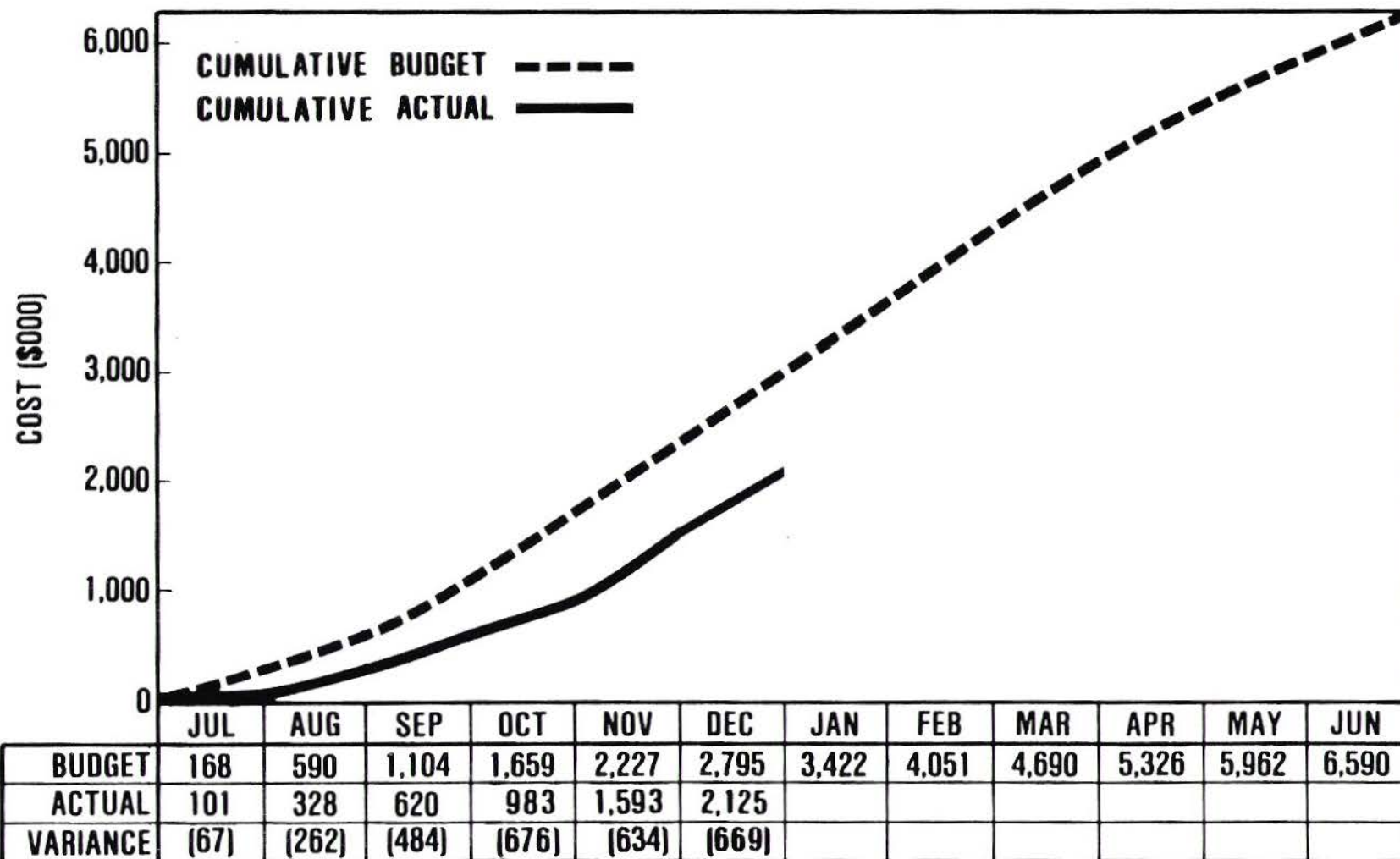
Subcontractor costs were \$113,000 versus a plan of \$153,000, producing a variance under plan of \$40,000. Cumulatively, the total cost is \$347,000 versus a plan of \$705,000, \$358,000 under plan. This variance is primarily attributable to the late start of the subcontractors. Three subcontractors, Ochoa & Sillas, Jacobs Associates and Hayakawa Associates, have a combined total under expenditure of \$291,000. The remaining \$67,000 is spread among the other seven subcontractors.



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CM COST PERFORMANCE - DECEMBER 1984

| PDCD                |                                       | PLANNED | ACTUAL | VARIANCE | %    |
|---------------------|---------------------------------------|---------|--------|----------|------|
| LABOR, BURDENS, FEE | CUMULATIVE THROUGH NOVEMBER           | 1,194   | 1,038  | ( 156)   | (13) |
|                     | CURRENT MONTH ACTUALS (INCL. ACCRUAL) | 294     | 198    | ( 96)    | (33) |
|                     | CUMULATIVE THROUGH DECEMBER           | 1,488   | 1,236  | ( 252)   | (17) |
| TRAVEL AND ODCs     | CUMULATIVE THROUGH NOVEMBER           | 481     | 321    | ( 160)   | (33) |
|                     | CURRENT MONTH ACTUALS (INCL. ACCRUAL) | 121     | 221    | 100      | 83   |
|                     | CUMULATIVE THROUGH DECEMBER           | 602     | 542    | ( 60)    | (10) |
| SUBCONTRACTORS      | CUMULATIVE THROUGH NOVEMBER           | 552     | 234    | ( 318)   | (58) |
|                     | CURRENT MONTH ACTUALS (INCL. ACCRUAL) | 153     | 113    | ( 40)    | (26) |
|                     | CUMULATIVE THROUGH DECEMBER           | 705     | 347    | ( 358)   | (51) |
| TOTAL COST          | CUMULATIVE THROUGH NOVEMBER           | 2,227   | 1,593  | ( 634)   | (28) |
|                     | CURRENT MONTH ACTUALS (INCL. ACCRUAL) | 568     | 532    | ( 36)    | ( 6) |
|                     | CUMULATIVE THROUGH DECEMBER           | 2,795   | 2,125  | ( 670)   | (24) |
| HOURS               | CUMULATIVE THROUGH NOVEMBER           | 40,598  | 31,006 | ( 9,592) | (24) |
|                     | CURRENT MONTH ACTUALS (INCL. ACCRUAL) | 10,589  | 7,287  | ( 3,302) | (31) |
|                     | CUMULATIVE THROUGH DECEMBER           | 51,187  | 38,293 | (12,894) | (25) |

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|                                    |        | Jul      | Cumulative | Aug      | Cumulative   | Apr           | Cumulative | May       | Cumulative | Jun       | Cumulative |
|------------------------------------|--------|----------|------------|----------|--------------|---------------|------------|-----------|------------|-----------|------------|
| <u>FUNCTIONAL DEPARTMENT</u>       |        |          |            |          |              |               |            |           |            |           |            |
| Project Management and Secretarial | Plan   | 1,335.00 | 1,335.00   | 1,649.00 | 2,982,708.00 | 24,056.00     | 2,708.00   | 26,764.00 | 2,593.00   | 2,933.70  |            |
|                                    | Actual | 724.00   | 724.00     | 1,643.50 | 2,361        |               |            |           |            |           |            |
| Systems Integration Manager        | Plan   | -        | -          | 157.00   | 157          | 157.00        | 1,413.00   | 157.00    | 1,570.00   | 157.00    | 1,727.00   |
|                                    | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| East Zone Construction Manager     | Plan   | -        | -          | 157.00   | 157          | 157.00        | 1,413.00   | 157.00    | 1,570.00   | 157.00    | 1,727.00   |
|                                    | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| General Services Manager           | Plan   | 79.00    | 79.00      | 942.00   | 1,022,041.00 | 14,994.00     | 2,041.00   | 17,035.00 | 2,041.00   | 19,076.00 |            |
|                                    | Actual | 40.00    | 40.00      | 216.00   | 251          |               |            |           |            |           |            |
| Project Controls                   | Plan   | 393.00   | 393.00     | 1,256.00 | 1,644,727.00 | 14,052.00     | 1,727.00   | 15,779.00 | 1,727.00   | 17,506.00 |            |
|                                    | Actual | 262.75   | 262.75     | 842.00   | 1,101        |               |            |           |            |           |            |
| Contracts/Procurement              | Plan   | 314.00   | 314.00     | 471.00   | 781          | 628.00        | 5,495.00   | 628.00    | 6,123.00   | 628.00    | 6,751.00   |
|                                    | Actual | 119.00   | 119.00     | 377.50   | 491          |               |            |           |            |           |            |
| Engineering Services               | Plan   | 79.00    | 79.00      | 1,727.00 | 1,801,747.00 | 21,270.00     | 2,747.00   | 24,017.00 | 2,826.00   | 26,843.00 |            |
|                                    | Actual | 40.00    | 40.00      | 480.00   | 521          |               |            |           |            |           |            |
| Community Relations                | Plan   | 79.00    | 79.00      | 157.00   | 231          | 471.00        | 2,748.00   | 471.00    | 3,219.00   | 471.00    | 3,690.00   |
|                                    | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| Safety and Security                | Plan   | 79.00    | 79.00      | 157.00   | 231          | 157.00        | 1,492.00   | 157.00    | 1,649.00   | 157.00    | 1,806.00   |
|                                    | Actual | -        | -          | 176.00   | 171          |               |            |           |            |           |            |
| Quality Assurance                  | Plan   | 157.00   | 157.00     | 157.00   | 311          | 157.00        | 1,570.00   | 157.00    | 1,727.00   | 157.00    | 1,884.00   |
|                                    | Actual | 46.00    | 46.00      | 192.00   | 231          |               |            |           |            |           |            |
| Administration                     | Plan   | 628.00   | 628.00     | 628.00   | 1,251        | 628.00        | 6,280.00   | 628.00    | 6,908.00   | 628.00    | 7,536.00   |
|                                    | Actual | 198.00   | 198.00     | 452.00   | 651          |               |            |           |            |           |            |
| EEO Administration                 | Plan   | -        | -          | 157.00   | 157          | 471.00        | 3,140.00   | 471.00    | 3,611.00   | 471.00    | 4,082.00   |
|                                    | Actual | -        | -          | 120.00   | 121          |               |            |           |            |           |            |
| Labor Relations                    | Plan   | -        | -          | -        | -            | 79.00         | 474.00     | 79.00     | 553.00     | 69.00     | 622.00     |
|                                    | Actual | -        | -          | 8.00     | 8            |               |            |           |            |           |            |
| Legal Counsel                      | Plan   | -        | -          | -        | -            | 189.00        | 1,508.00   | 188.00    | 1,696.00   | 188.00    | 1,884.00   |
|                                    | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| Subtotal                           |        | Plan     | 3,143.00   | 3,143.00 | 7,615.00     | 10,752,317.00 | 99,905.00  | 12,316.00 | 112,221.00 | 12,270.00 | 124,491.00 |
|                                    |        | Actual   | 1,429.75   | 1,429.75 | 4,507.00     | 5,931         |            |           |            |           |            |
| <u>OTHER DIRECT LABOR</u>          |        |          |            |          |              |               |            |           |            |           |            |
| Home Office Support                |        |          |            |          |              |               |            |           |            |           |            |
| The Ralph M. Parsons Company       |        |          |            |          |              |               |            |           |            |           |            |
| Procurement & Contracts            | Actual | 9.50     | 9.50       | 41.50    | 5            |               |            |           |            |           |            |
| Project Controls                   | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| Admin. and Acctg.                  | Actual | 69.50    | 69.50      | 58.50    | 121          |               |            |           |            |           |            |
| Technical                          | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| Publication and Repro.             | Actual | 51.50    | 51.50      | 150.50   | 201          |               |            |           |            |           |            |
| Deleuw, Cather & Company           |        |          |            |          |              |               |            |           |            |           |            |
| Admin. and Acctg.                  | Actual | 18.00    | 18.00      | -        | 11           |               |            |           |            |           |            |
| Technical                          | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| Dillingham Construction, Inc.      |        |          |            |          |              |               |            |           |            |           |            |
| Technical                          | Actual | -        | -          | -        | -            |               |            |           |            |           |            |
| Subtotal                           |        | 148.50   | 148.50     | 250.50   | 391          |               |            |           |            |           |            |
| Grand Total                        |        | Plan     | 3,143.00   | 3,143.00 | 7,615.00     | 10,752,317.00 | 99,905.00  | 12,316.00 | 112,221.00 | 12,270.00 | 124,491.00 |
|                                    |        | Actual   | 1,578.25   | 1,578.25 | 4,757.50     | 6,331         |            |           |            |           |            |

Manhours by  
Functional Department



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VI. SUMMARY OF ACTIVITIES PERFORMED IN DECEMBER

A. Administration and Accounting

- (1) Brought one Civil Engineer on board.
- (2) Prepared requisitions and submitted resumes and salaries to the RTD for approval of a Utilities Engineer and an Estimator.
- (3) Submitted the revised Administration Procedures Manual to the RTD for approval.
- (4) Received six Panasonic memory typewriters and instructed secretaries in their use.
- (5) Received three leased automobiles for PDCD use; the fourth vehicle is due. Two additional vehicles have been approved and POs have been issued.
- (6) Completed inputting accounting data for cost reporting through November 30. The system will be on a current updating status by the second week of January.
- (7) Reformatted the Project Cost Statement in LOTUS format - system is in use.
- (8) Signed the lease on December 17, 1984 for the downtown office location, 600 South Spring Street.

B. Quality Assurance

- (1) Met with RTD to discuss and resolve comments on the Standard Technical Specifications and the manuals for Project Administration, Construction Safety and Security, Construction Operations, and Organization and Responsibilities.

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- (2) Incorporated additional RTD comments and resubmitted to the RTD the revised manuals for Construction Operations, Inspector Guidelines, Safety and Security, and Project Administration Procedures.
- (3) Completed submittal of the Standard Technical Specifications, review comments and the review comments of the final Invitation to Bid documents.
- (4) Completed the rewrite of the Quality Assurance and Quality Control Manual. Began internal review.

C. Equal Opportunity Administration

- (1) Attended the Los Angeles Unified School District Advisory Committee's meeting on December 5 to plan ways to involve young women in nontraditional Metro Rail positions.
- (2) Attended the Mexican American Legal Defense and Education Fund (MALDEF) awards dinner on December 5, in a effort to stimulate DBE/WBE Metro Rail involvement.
- (3) Attended a meeting and reception of elected women policymakers at the Los Angeles City Hall on December 17, sponsored by the Mayor's Office as part of the Metro Rail Community involvement in an effort to further the achievement of DBE/WBE goals.
- (4) Attended the RTD TRACS management overview training session.
- (5) Represented PDCD at a USC reception on December 13 honoring two members of the RTD Board of Directors, Ms. Carmen Estrada and Mr. Norman Emerson.
- (6) Continued our community outreach efforts to disseminate information to individuals and companies regarding contract opportunities on the Metro Rail Project.
- (7) Completed a draft Project Affirmative Action Plan.

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D. Contracts and Procurements

- (1) Received district approval and executed subcontracts with Jacobs Associates, Engineering-Science Inc., and Martin & Huang International.
- (2) Submitted comments on RTD's Invitation to Bid package for A-740, systemwide procurement.
- (3) Issued subcontract amendments to Dames & Moore and Hayakawa.
- (4) Continued negotiation with NPCC to resolve questions concerning insurance, labor classification, and anticipated level of participation.
- (5) Accepted delivery of three automobiles; expect the fourth to be delivered before the end of the month.
- (6) Issued a PO for two additional automobiles to be delivered in February.
- (7) Prepared a draft of Amendment 2 to Prime Contract.
- (8) Met with the RTD's insurance consultant to discuss OCIP and a waiver on subcontractor/consultant insurance requirements.

E. Community Relations

- (1) Attended RTD's Benefit Assessment Policy Task Force meeting and the public hearings on the Benefit Assessment Districts.
- (2) Attended the TRACS orientation session.
- (3) Submitted responses to RTD'S comments on the Community Relations Procedures Manual.
- (4) Submitted comments on the community relations sections of the General Conditions for Contract Specifications and Contract A-142.

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- (5) Attended RTD's meeting with the United Community & Housing Development Corporation to discuss business development prior to and during construction of the Metro Rail in the Fairfax and Hollywood areas.

F. Safety and Security

- (1) Participated in the biweekly Fire, Life, and Safety Committee meeting with the RTD, LAPD, County Sheriff, RTD Police and Fire, and Los Angeles Fire Department.
- (2) Met with RTD's Insurance Administrator and reviewed insurance coverage and safety and security programs.
- (3) Reviewed agreements between agencies involving security staff and possible overlapping of responsibilities.
- (4) Attended workshop with RTD Police, LAPD and County Sheriff's offices to develop contractor security needs during course of construction of each bid package.
- (5) Resubmitted the Construction Safety and Security Manual incorporating additional RTD comments.

G. Construction Operations

G.1 General Activities

- (1) Incorporated RTD's comments in the Construction Operations Procedures Manual.
- (2) Attended the TRACS session for management overview.
- (3) Assisted the RTD in efforts to obtain a variance to LA City's "soldier pile cutoff and tie-back detensioning" requirements.
- (4) Contributed to the RTD/MRTC/PDCD underpinning and instrumentation studies.

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- (5) Reviewed and commented on:
  - (a) Standard Technical Specifications
  - (b) Invitation to Bid Package
  - (c) Insurance Specifications
  - (d) Contract Packaging
  - (e) Phasing Plan for Amtrak Baggage Facilities
  - (f) Design Review Drawings and Specifications
- (6) Coordinated temporary construction decking structural requirements with utility relocation criteria.
- (7) Prepared a Staffing Plan for the MOS-1 Design & Construction Schedule.

G.2 Systems Integration

- (1) Reviewed yard construction documents for impact on the Yard Traction Power Substation in the event that only a partial yard is built for MOS-1.
- (2) Continued participation in train control meetings with MRTC, RTD, and the industry signal companies.
- (3) Attended an MRTC presentation on procurement options highlighting the one-step and two-step methods.
- (4) Continued participation in construction packaging and scheduling for MOS-1.

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G.3 General Services

A. Utilities

- (1) Reviewed and commented on Plans and Specifications for Utilities and Civil Work on Contract A-165, 7th/Flower Station, Stage 1, 85%.
- (2) Prepared a detailed construction schedule and sequence description of utility company work for A-142, Civic Center Excavation.
- (3) Prepared a Layout Composite Plan for the Santa Fe Railroad Yard area and identified existing utilities.
- (4) Reviewed the Final Utility Rearrangement Plan for 5th/Hill Station (dated 11/21/84) and transmitted comments to the RTD and MRTC.
- (5) Reviewed the initial utility relocation plan for Wilshire/Normandie Station, A-220, and transmitted comments to the RTD and MRTC.
- (6) Attended a meeting at MRTC to review PDCD comments on the Standard drawings for temporary support of utilities.
- (7) Attended a meeting at MRTC with utility companies to review initial utility relocation plan for Wilshire/Normandie Station, A-220.

B. Permits

- (1) Updated the tabulation of permits required by the City of LA for Metro Rail Construction. Distributed copies to members of the CM staff and the RTD.
- (2) Continued to collect City of LA and State of California permit data.
- (3) Prepared a tabulation of permits to be required for all work at the Civic Center Excavation, A-142.

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C. Traffic Control

- (1) Obtained street plans and a traffic analysis of the MOS-1 route from LA Department of Traffic.
- (2) Reviewed the Worksite Traffic Control Plan for the Civic Center Excavation, A-142.
- (3) Reviewed the City of LA Haul Route requirements for Metro Rail.

D. Surveys

- (1) Reviewed contract documents for potential survey conflicts.
- (2) Submitted requisitions for survey equipment and personnel requirements.
- (3) Defined the scope of the survey responsibility.
- (4) Familiarized new personnel with the MOS-1 route.
- (5) Prepared a preliminary schedule of survey activities for A-142.

E. Environmental Control/Monitoring

- (1) Reviewed contract general conditions, specifications, and drawings sets for MOS-1 design packages to ensure appropriate environmental controls and monitoring.
- (2) Studied geologic relationships of sulfurous and hydrocarbon gases at MOS-1 stations.
- (3) Evaluated paleontological occurrences at MOS-1 stations and associated mitigation measures during drilling of piles.
- (4) Reviewed testing plans for archaeological resources during pile drilling and trenching.

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- (5) Further developed the Environmental Control Plan and Premonitoring Survey Plan focusing on detailed development for the initial Mos-1 projects.
- (6) Recommended use of IBM PCAT system for environmental data base management and for evaluation of construction activities.
- (7) Evaluated noise-vibration data base for ambient conditions in MOS-1.

G.4 Zone Construction Management

- (1) Assisted MRTC in development of a MOS-1 Baseline Schedule.
- (2) Continued participation in reviews.
- (3) Reviewed construction rights-of-way for adequacy of contractor laydown areas.

H. Engineering Services

- (1) Eleven MOS-1 constructibility reviews were completed in December covering contracts A-112, A-135, A-136, A-142, A-165, A-167, A-170A, and A-187. The majority of these were 85% reviews; A-112, and A-187 were 100% reviews.
- (2) Three follow-on designs were scheduled for review in December but were postponed to January in order to give priority to MOS-1 contracts.
- (3) Comments on the A-140 Value Engineering report and on the Corrosion Control Standards were also completed and submitted in December.
- (4) A number of meetings with RTD were attended to resolve questions on design review comments.
- (5) The search for two Systems Engineers continued; the positions remain open.

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**J. Project Controls**

- (1) Participated in construction schedule meetings with MRTC to establish a joint MOS-1 baseline schedule.
- (2) Reviewed the scheduling sections of the Technical Specifications and worked jointly with the RTD to rewrite these sections.
- (3) Conducted a preliminary review of the MOS-1 construction cost estimate November 30 and submitted comments to the RTD.
- (4) Evaluated estimating software packages for potential assistance in preparation of PDCD construction check estimates.
- (5) Prepared a forecast of the anticipated CM annual expenditures for MOS-1.
- (6) Submitted additional comments on the Standard General Conditions.
- (7) Met with the RTD to finalize Construction Performance Report formats and set up a plan for benchmarking TRACS with a sample contract (A-114) using the budgeting, scheduling, progress payments, change order, and procurement modules. Initial data was loaded into the budgeting module; interface with MSCS and report production awaits additional coordination with the RTD.
- (8) Prepared presentation material for the Joint Venture Executive Board Meeting.
- (9) Completed estimate reviews on contracts A-135 (60%), A-140 (60%), A-145 (60%), A-165 (60%), A-170 (60%), and A-175 (85%).
- (10) Assisted the RTD in developing and programming the CM services reporting system using the RTD MRCS report writer. Past data will be input following programming of the preprocessor.
- (11) Prepared scheduling and estimating analysis of the Yard and Shop areas.

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- (12) Set up the Document and Material Control System (DMCS) on the Prime 750 Supermini computer to aid in statusing and tracking the flow of documents on the project.
- (13) Formatted a cost estimate status report and the PDCD Procedure Manual Status report on the IBM computer.
- (14) Continued gathering information to establish a PDCD reference library.

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VII. ACTIVITIES PLANNED IN JANUARY

A. Administration and Accounting

- (1) Schedule an initial training program for additional personnel on the DECmate WP and schedule advanced training on the DECmate WP for personnel who have completed initial training.
- (2) Continue providing assistance in the preparation of personnel requisitions, submission of qualifications to the RTD for approval, staffing and relocation, preparation of TAs, review of expense reports and maintenance of personnel records.
- (3) Update accounting data and begin producing reports at the current activity level.
- (4) Initiate training of accounting personnel on the IBM PC.
- (5) Issue a procedure for mail handling and control.
- (6) Begin planning for relocation to downtown office.
- (7) Review and complete list of furnishings and equipment required for downtown office and submit a proposal to RTD.

B. Quality Assurance

- (1) Submit the QA and QC Manual for RTD approval pending the RTD's resolution of the Contractor QC issue.
- (2) Meet with RTD QA (and Booz Allen) to discuss PDCD support of RTD QA activities with regard to systemwide contracts and QA and QC Manual comments.
- (3) Complete submittal and, upon final approval from the RTD, publish and distribute CM manuals.
- (4) Begin developing QA Checklists and an Audit Schedule.

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C. Equal Opportunity Administration

- (1) Prepare the written materials for the EO training session for PDCD management and the supervisory staff.
- (2) Submit the final copy of the Affirmative Action Plan to the RTD for review.
- (3) Plan a meeting for the Joint Venture team's subcontractors regarding affirmative action and the DBE/WBE program.
- (4) Continue our community outreach activities to disseminate information to individuals and companies regarding contract opportunities on the Metro Rail Project.

D. Contracts and Procurement

- (1) Award consulting agreements to A.A. Matthews, W.D. Alexander and R.H. Heuer.
- (2) Conclude negotiations with NPCC and execute the subcontract.
- (3) Execute the CPFF subcontract already negotiated with Randolph & Tate or negotiate a time and expense (labor hour) type of subcontract, pending the RTD's decision.
- (4) Complete the Resident Engineer Manual and the Procurement Manual upon the RTD's resolution of the role of Contract Administration versus Resident Engineer.
- (5) Submit and negotiate the proposed Amendment 2 to the contract incorporating Phase 2 Construction into the First Annual Work Plan for MOS-1.

E. Community Relations

- (1) Review technical reports on archaeological and paleontologic resources.
- (2) Review RTD's Joint Development Report for the community.

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- (3) Develop a community relations program for the PDCD training/orientation session.
- (4) Continue to review community issues and mitigation measures.
- (5) Attend community meetings in conjunction with the RTD as needed.

F. Safety and Security

- (1) Continue participation in biweekly Fire, Life, and Safety Committee meetings with the RTD, LAPD, County Sheriff, RTD's Police and Fire, and the Los Angeles Fire Department.
- (2) Continue meeting with the RTD's Insurance Administrator to review insurance coverage and safety and security programs.
- (3) Continue to review agreements between agencies involving security staff and possible overlapping of responsibilities.
- (4) Attend future workshops with the RTD's Police, LAPD, and County Sheriff's offices to develop contractors security needs during course of construction of each bid package.
- (5) Attend the Mine Rescue course in Idaho to further determine our needs and requirements for the rescue team.
- (6) Publish the Construction Safety and Security Manual upon RTD's approval.

G. Construction Operations

G.1 General

- (1) Continue participation in reviews for design constructibility.

MTA LIBRARY

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(2) Participate in followup actions for:

- (a) Soldier pile cutoff and detentioning of tie backs
- (b) Underpinning
- (c) A-142 Work Plan

G.2 Systems Integration

- (1) Participate in the constructibility review of the A-630 Traction Power Procurement prefinal document.
- (2) Continue participation to finalize MOS-1 Schedule.
- (3) Continue coordination of interface requirements for various systemwide elements.

G.3 General Services

A. Utilities

- (1) Finalize the Utility Relocation Plan and Sequence Schedule for Civic Center Excavation, A-142.
- (2) Prepare detailed Utility Relocation Plans and Schedules for all station contracts in MOS-1.
- (3) Review the results of the depth of temporary decking analysis with the RTD and MRTC.
- (4) Continue constructibility reviews of utility concepts plans for locations in the 18-mile segment.

B. Permits

- (1) Finalize all MOS-1 Permit Requirements by public agencies and transmit to the RTD.
- (2) From Permit data base, prepare tabulations for specific contracts on MOS-1 route.



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C. Traffic Control

- (1) Review computer software programs to determine the impact of street closures and diversions in the downtown urban areas.
- (2) Develop a street grid base map for MOS-1.
- (3) Continue to review specific worksite Traffic Control Plans for MOS-1 station locations.

D. Surveys

- (1) Obtain survey equipment previously requisitioned.
- (2) Bring survey personnel on board.
- (3) Verify the condition of survey control monumentation.
- (4) Prepare a survey procedure, define survey requirements, and identify survey standards.
- (5) Finalize the A-142 Survey Activities Schedule.

E. Environmental Controls/Monitoring

- (1) Develop a detailed environmental control and monitoring plan for Stage I of the Civic Center, 5th/Hill, and 7th/Flower Stations.
- (2) Continue Premonitoring Survey; collect and review ambient air quality data.
- (3) Evaluate boring and gas data as it becomes available.
- (4) Evaluate truck haul routes and RTD-recommended disposal sites for excavation debris.

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G.4 Zone Construction Management

- (1) Continue constructibility reviews of design packages.
- (2) Bring one Resident Engineer and one Office Engineer on board when construction funds are available.
- (3) Continue to assist MRTC in developing a joint MRTC/PDCD MOS-1 baseline schedule.

H. Engineering Services

- (1) Review packages A-195, A-220, A-275, A-140, A-610, and A-630 scheduled for January receipt.
- (2) Review the 85% A-133 Baggage Handling Facility drawings and specifications to be completed in early January.
- (3) Review Traction Power Station.
- (4) Review the seismic restraint drawings, under vehicle spray system, corrosion control drawings, structural standards on break outs and cross passages and A-165 excavation support studies.
- (5) Add an architect to the staff in accordance with the Annual Work Plan.

J. Project Controls

- (1) Complete analysis and inputs to MRTC on a joint MOS-1 baseline schedule.
- (2) Continue reviews of design estimates for contracts A-187 (60%), A-195 (85%), A-220 (60%), A-240 (60%), A-275 (60%), A-630 (60%), A-640 (60%), A-650 (60%), and A-690 (60%).
- (3) Submit a plan to RTD for preparation of construction cost estimates and supporting software and hardware.

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- (4) Proceed with benchmarking of TRACS using sample contract A-114 and make necessary modifications to facilitate the use of the TRACS modules.
- (5) Following RTD programming of the data proprocessor, input CM cost data to the newly programmed CM Services performance reports.
- (6) Receive DMCS hardware; code documents for input to the computer.

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**VIII. AREAS OF CONCERN**

1. Clarification of the role of Contract Administration versus Resident Engineer in Management/Administration of construction contracts.
2. Resolution of application of Contractor Quality Control.
3. Underpinning of structures, especially at Hill and 7th St.
4. Scope of work, schedule and estimated costs for utility work at 5th/Hill and 7th/Flower.
5. Implementation and check out of TRACS to provide required project controls.

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**APPENDIX**



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| <b>Subcontractor</b>                    | <b>NTP<br/>Issued</b> | <b>Negotiated<br/>Subcontract</b> | <b>Consent<br/>Submitted</b> | <b>Consent<br/>Approved</b> |
|-----------------------------------------|-----------------------|-----------------------------------|------------------------------|-----------------------------|
| <b>BPES</b>                             | 8/27/84               | 9/13/84                           | 10/5/84                      | 11/15/84                    |
| <b>CCSC</b>                             | 8/20/84               | 9/18/84                           | 10/1/84                      | 11/9/84                     |
| <b>Dames &amp; Moore</b>                | 9/20/84               | 10/8/84                           | 10/15/84                     | 11/8/84                     |
| <b>Engineering-Science</b>              | 9/18/84               | 11/9/84                           | 11/28/84                     | 12/26/84                    |
| <b>Hayakawa</b>                         | 9/7/84                | 9/19/84                           | 9/21/84                      | 11/19/84                    |
| <b>Jacobs</b>                           | 9/21/84               | 10/25/84                          | 10/29/84                     | 12/11/84                    |
| <b>Jenkins, Gale &amp;<br/>Martinez</b> | 8/28/84               | 10/12/84                          | 10/17/84                     | 11/8/84                     |
| <b>Martin &amp; Huang</b>               | 9/4/84                | 10/29/84                          | 10/31/84                     | 12/10/84                    |
| <b>NPCC</b>                             |                       |                                   |                              |                             |
| <b>Ochoa and Sillas</b>                 | N/A                   | 11/15/84                          | 11/26/84                     |                             |
| <b>Randolph &amp; Tate</b>              | 9/25/84               | 11/19/84                          | 11/20/84                     |                             |
| <b>Vanir</b>                            | 8/22/84               | 8/30/84                           | 9/27/84                      | 11/8/84                     |

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**CONSULTANT STATUS**

| Consultant     | NTP Issued | Executed Subcontract | Consent Submitted | Consent Approved |
|----------------|------------|----------------------|-------------------|------------------|
| A.A. Matthews  |            |                      |                   |                  |
| R.H. Heuer     |            |                      |                   |                  |
| J.P. Gould     | 11/21/84   |                      |                   |                  |
| W.D. Alexander |            |                      |                   |                  |

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