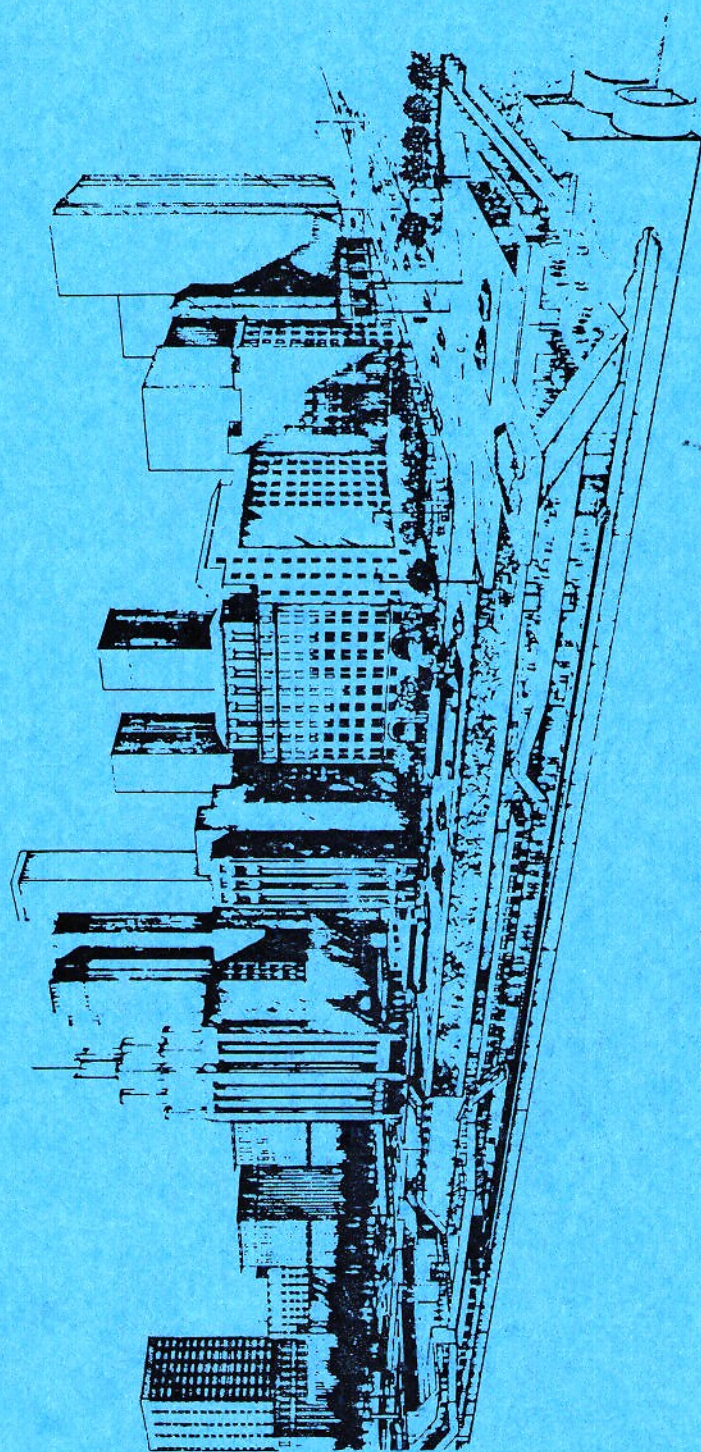


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.M46  
R46  
no. 64



# LOS ANGELES **METRO RED LINE** PROJECT MONTHLY CONTRACT PERFORMANCE REPORT

## RTD



## REPORT NUMBER 64 OCTOBER 1989

### PDCD

A Joint Venture of The Ralph M. Parsons Co., Dillingham Construction N. A. Inc., and De Leuw, Cather & Co.,







# MONTHLY CONTRACT PERFORMANCE REPORT

for the

## LOS ANGELES **METRO RED LINE** PROJECT

OCTOBER 1989

presented to

Southern California Rapid Transit District

CONTRACT NO. 3369

\*The preparation of this Document has been financed in part through grants from the State of California, the City of Los Angeles, the Los Angeles County Transportation Commission and the U. S. Department of Transportation, Urban Mass Transportation Administration, under the Urban Mass Transportation Act of 1964, as amended.\*

Month OCTOBER Year 1989

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SCRTD  
1985-  
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no. 64

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# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

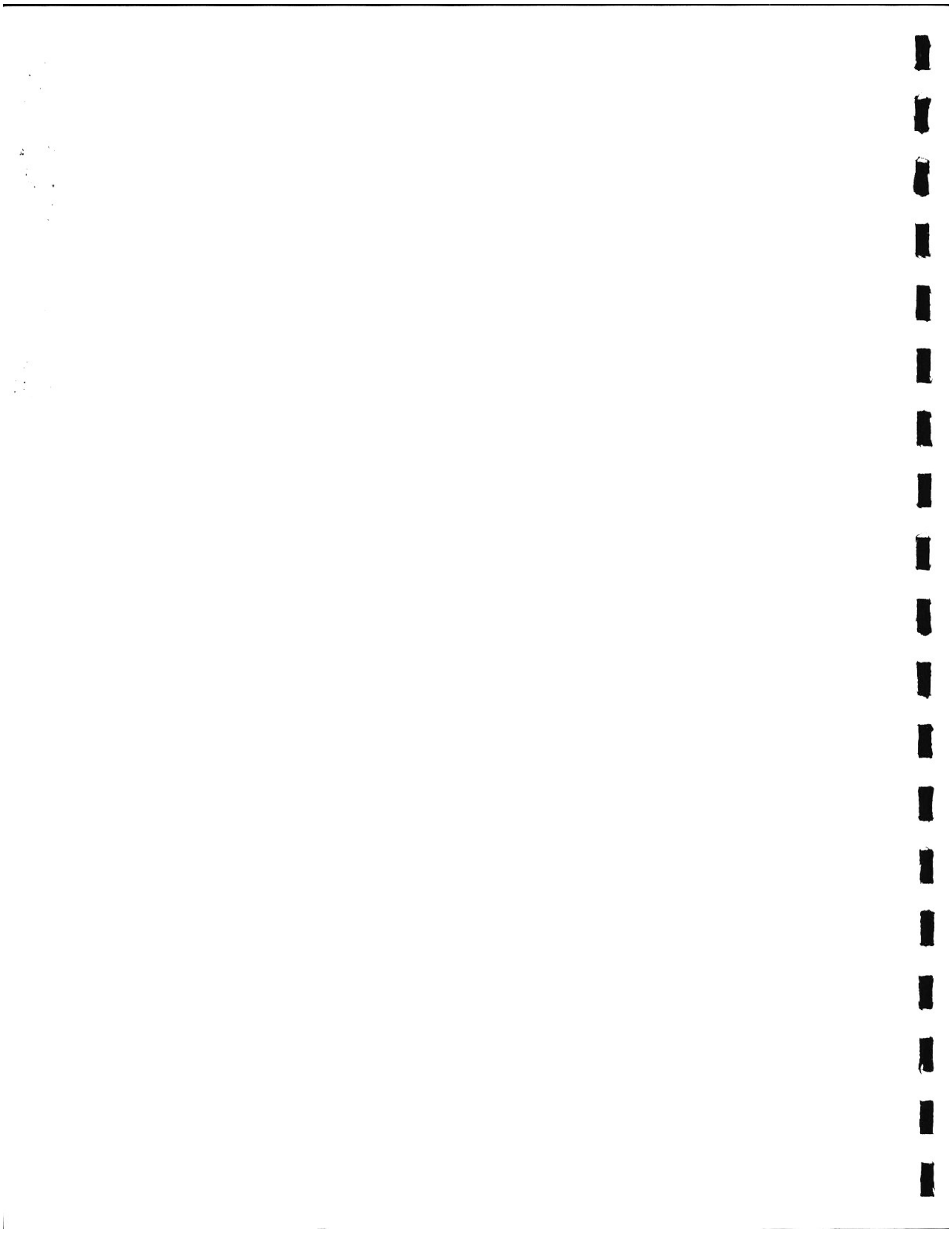
**PDCD**

PERIOD OCTOBER 1989

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**SECTION I**

**CONSTRUCTION MANAGER'S  
SUMMARY STATEMENT**







# LOS ANGELES METRO RED LINE

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### MAJOR CM ACTIVITIES

#### I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

This Contract Performance Report (CPR) for the month of October 1989 is the fourth CPR in the Sixth Annual Work Plan (6th AWP) and covers the period September 30 to October 27, 1989. The following is a summary, by functional organization, of major CM activities during this period:

**CONSTRUCTION OPERATIONS:** Continued construction management (CM) services for 16 Facility Contracts and 11 Systems Contracts, monitoring of utilities relocations, and performance of submittal reviews. Continued conducting QC inspections of work for compliance to plans and specifications. Monitored contractor progress to approved project schedules. Assisted contractors in coordination with local public agencies in areas of community impact, permits and traffic access. Continued to conduct safety inspections of all contractor activities. Responded to contractor document clarification requests as appropriate.

**Environmental Activities:** Continued monitoring for groundwater and construction water discharges at 7 construction sites. Continued monitoring of Discharge Monitoring Stations at Ballona Creek and Los Angeles River. Prepared and submitted September Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB). Prepared and submitted September LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Prepared and submitted water quality reports for new dewatering flows from A130 and A135 to CRWQCB.

**Utilities and Traffic Activities:** Continued coordination of traffic control plans and street closures with city agencies for 5 contracts. Continued coordination of MOS-1 Traffic Control/Traffic Safety inspections with LADOT. Processed a total of 17 Traffic and Utilities related submittals.

**Surveying Activities:** Continued checking contractor's control points and layout at various construction sites. Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175. Continued location surveys at yards and shops contracts. Checked layout and excavation for A135 station. Continued walkway as-builts survey for AR and AL tunnels (A171). Checked as-built escalator wellways in Home Savings for A167. Completed review of high utilities claims (A165).

**PROJECTS CONTROLS:** Processed 28 Change Requests as follows: 2 for A112; 5 for A141; 2 for A145; 1 for A146; 2 for A165, 1 for A167; 1 for A171; 8 for A175; 4 for A610/A115; and 2 for A620. Processed 5 Change Notices as



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follows: 1 for A130; 1 for A141; 1 for A146; 1 for A175; and 1 for A610/A115. Processed 45 Change Orders as follows: 2 for A112; 1 for A130; 7 for A135; 4 for A145; 6 for A146; 4 for A165; 5 for A167; 4 for A175; 4 for A610/A115; 1 for A615; 2 for A620; 3 for A640; and 1 for A755; Processed 36 executed Change Orders through TRACS as follows: 3 for A112, 3 for A130; 5 for A135; 1 for A141; 11 for A146; 8 for A165; 1 for A175; 1 for A610/A115; and 2 for A710. Processed 4 Potential Claims as follows: 2 for A112; 1 for A130; and 1 for A610. Processed 4 Change - Technical Evaluations as follows: 3 for A145 and 1 for A175. Processed 5 Force Account Change Packages as follows: 5 for A146. Completed Close-out Reconciliations on 4 Force Account Change Orders as follows: 4 for A146. Processed 20 Monthly Payment Estimates. Reviewed Contractor Monthly Progress Reports. Prepared Scheduling inputs to RTD Monthly Status Report. Approved-as-noted Part II Schedule Submittals for A167. Reviews in progress for Part II Schedule revisions from A145, A165 and A175. Review in progress for A167 Part II Schedule. Completed review of A130 Part II Schedule. Prepared quarterly update for the Level III Schedule.

**Cost Estimates for Changes/Proposals:** A-130-CR-026A: Reviewed contractors proposal and prepared estimate comparison. A-135-CR-004, CR-032 Continued to review changes and proposals related to LAUPT Baggage Handling Facilities and Police Room. A-135-CR-047 Reviewed Contractors proposals, prepared comparison, negotiated settlement for revised work, elevator hydraulic lines. A-135-CR-059 Completed estimate for enlarged wall opening, Door 7B. A-135-CR-051, A141-CR-120, A145-CR-147, A165-CR-083 and A175-CR-051 Completed revised estimates for emergency telephone blockouts. A-136 Began review of Stage II contract documents and MRTC estimate for support in preparation of contract schedule. A-141-CR-092 Completed estimate on relocated Emergency Exit Stair No. 21. A-141-CR-095 Completed review and estimate on increased escalator wellway openings. A-141-CR-097 Reviewed contractors proposal for additional strain gages and monitoring. A-141-CR-100 Completed estimate for revisions to Elevator equipment room. A-141-CR-104 Began estimate on revisions to water service and corrosion control. A-141-CR-011 Access delay to Union Station, reviewed contractor (subcontractors) proposals, prepared estimates and evaluations, participated in negotiations. A-145-CR-124 Reviewed contractors proposal for additional cost to negotiated change. A-145-CR-132, 133 Prepared preliminary estimate for plumbing and piping changes not included with hydraulic changes. A-145-CR-148 Prepared estimate for changes due to added drawing E-145. A-146-CR-038 Reviewed scope of work in preparation for walkway and wet standpipe change estimate. A-165-CR-075 Clarified scope of work and material takeoff for wet standpipe and sprinkler system change. A-165 Reviewed decking quantities, prepared comparison and met with contractor. A-167-CR-002 Reviewed contractors proposal for change to structural openings, BRS wall. A-175-CR-035 Reviewed contractors revised proposal for incoming Electrical Service Room. A-175-CR-047 Prepared estimate for additional embedded drainlines in crossover. A-175-CR-053 Prepared estimate for revisions to plumbing and fire protection systems and structural





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openings. A-175-CR-075, CR-076, CR-077 Prepared ROM estimate for miscellaneous structural changes. A-620-CR-030 Prepared ROM estimate for access delay to tunnels. A-732 Began preparation of ROM estimate for installation of wheel press and wheel boring machine. Prepared estimate for tunnel bulkheads at Civic Center and 7th Flower Stations. Reviewed contractors proposed Force Account labor rate submittals.

**CONTRACT/PROCUREMENTS:** Issued three Purchase Orders for five Personal Computers and related software upon District approval. Issued Subcontract with E. D. Greenawalt for estimating services upon District approval. Requested District approval to issue Amendment to consulting agreement with F. E. Endacott & Associates for funds increase to cover remaining AWP-6 work requirements.

**ENGINEERING SERVICES:** Reviewed RTD consultant J. P. Gould's preliminary evaluation of the A141 tunnel hard rock claim. Assembled A145 construction/instrumentation data and transmitted to MRTC and RTD consultant J. P. Gould. Monitored two test case alternative methods of distressing struts at A141 Civic Center Station. Transmitted A141 Contractor's excavation support design calculations to RTD consultant, J. P. Gould for use in analyzing the Civic Center Station strut overload claim. Completed and distributed draft report on A145 Design Verification Study Task B, for use in evaluating the A141 Civic Center Station strut overload claim. Completed geologic observations in the A146 AR tunnel. Collected, tabulated and transmitted data to J. P. Gould on the A141 Station excavation history plotted against ground movements and strut load build-ups. Processed 14 field inquiries with MRTC to obtain clarification of design requirements. Responded to 160 requests for information or documentation clarification from various Contractors.

During this period 350 Contractor submittals were processed as follows:

|                     |                  |                         |                      |
|---------------------|------------------|-------------------------|----------------------|
| For Contract 112    | - Approved - 5;  | Approved-as-Noted - 3;  |                      |
| For Contract A130   | - Approved - 16; | Approved-as-Noted - 11; | Rejected - 13.       |
| For Contract A135   | - Approved - 3;  | Approved-as-Noted - 22; | Rejected - 7;        |
| For Contract A135BH | - Approved - 3.  |                         | For Record Only - 1. |
| For Contract A141   | - Approved - 6;  | Approved-as-Noted - 17; | Rejected - 3;        |
| For Contract A145   | - Approved - 12; | Approved-as-Noted - 36; | Rejected - 5;        |
| For Contract A146   |                  | Approved-as-Noted - 4.  | For Record Only - 5. |



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|                        |                  |                         |                |                      |
|------------------------|------------------|-------------------------|----------------|----------------------|
| For Contract A165      | - Approved - 29; | Approved-as-Noted - 37; | Rejected - 4;  | For Record Only - 1. |
| For Contract A167      | - Approved - 6;  | Approved-as-Noted - 7;  | Rejected - 8.  |                      |
| For Contract A171      | - Approved - 2;  | Approved-as-Noted - 2.  |                |                      |
| For Contract A175      | - Approved - 6;  | Approved-as-Noted - 7;  | Rejected - 5.  |                      |
| For Contract A610/A115 | - Approved - 13; | Approved-as-Noted - 2;  | Rejected - 10. |                      |
| For Contract A612      | - Approved - 1.  |                         |                |                      |
| For Contract A615      | - Approved - 1.  |                         |                |                      |
| For Contract A616      | - Approved - 3;  | Approved-as-Noted - 1.  |                |                      |
| For Contract A620      | - Approved - 15; | Approved-as-Noted - 3;  | Rejected - 1.  |                      |
| For Contract A630      | - Approved - 1;  | Approved-as-Noted - 1.  |                |                      |
| For Contract A631      | - Approved - 2;  | Approved-as-Noted - 1.  |                |                      |
| For Contract A640      | - Approved - 1;  | Approved-as-Noted - 3.  |                |                      |
| For Contract A710      | - Approved - 1.  |                         |                |                      |
| For Contract A740      | - Approved - 2.  |                         |                |                      |
| For Contract A745      | - Approved - 1.  |                         |                |                      |

TOTAL

129

157

56

8 = 350

**SAFETY/SECURITY:** Performed daily site safety, health and security surveillances and prepared written reports for the 11 construction contracts. Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service Subcontractors. Reviewed and approved the A631 Safety Representative candidate. Continued work on revisions/modifications to specifications on CSSM for Phase II. Began video-still safety site surveys with DIA's Director of Safety.

**COMMUNITY RELATIONS** - Coordinated community notifications for A130, A141, A145, A146, A165 and A175 tenants affected by lane restrictions and/or street closures. Coordinated and resolved traffic mitigation concerns for tenants along Hill St. affected by A141, and A146 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 (under 7th St.) traffic plans. Provided assistance to A130, A141, A145, A146 and A165 for problems caused by blocked access, noise, dust, accidents, security, rodent control and general construction activities. Provided assistance to RTD in responding to media requests and coordinating 10 site visits. Processed 28 inquiries/complaints. Provided assistance to RTD/LGCA in coordination and implementation of October 25 Community Awareness Meeting for Union Station/Yards & Shops area tenants.





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**QUALITY ASSURANCE/QUALITY CONTROL** - Continued to review welding activities and conducted fabrication inspections as required to support facilities and system procurement contracts as follows: Site Inspection at: A130, A145 - Inspection of welds on starpicks, kneebrace supports, walers and struts during excavation; - A145 - Inspection of bulkhead strut welds for tunnel supports and rebar column fabrication; A141 - Evaluation and inspection of welds during strut support modification; A145, A165, A175 - Inspection of welds during installation of permanent structures; A145 - Inspection of welds for deck beams for south blast relief shaft area and escalator entrance. Shop Inspection at: Paramount Metals - Inspection of embedded supports for slurry walls, rails, escalator beam supports, tunnel rings, and heavy frames for permanent structures (A130, A141, A145, A165, A175); Cowelco - Inspection of handrails, stairways and miscellaneous embedded frames for A135 Baggage Handling Facility; Angeles Steel - Inspection and monitoring of stud welding subcontracted from Paramount Metals; Scott Company - Inspection of Wet Standpipe and Hydraulic piping system spool pieces (A135, A145, A165). Continued to monitor on-site testing and Smith-Emery test laboratory activities. Witnessed system pressure tests for: A141 Wet Standpipe pipe spool; A171 Fire Lines; and A610/A115 Fire Lines, and Domestic Water and Natural Gas Lines. Inspected welded joints on A145 Deluge Lines. Monitored Smith-Emery testing of elastomeric pad samples for A171 and Batch Plant Inspection at Calmat and TMC. Inspected installation and monitored testing of HDPE for A135. Participated in A112 contract close-out activities. Participated in Safety Certification Review Team Audit of Contract A112. Conducted QA review of approximately 142 contractor submittals for various contracts. Issued Quality Assurance audit for Flakt, Inc. and National Metals Inc. for contracts A740 and A745. Supported audit of PDCD/QA Program by Hill International for UMTA. Monitored Smith-Emery concrete test reports.

**EQUAL OPPORTUNITY** - Monitored Equal Opportunity reporting requirements (i.e. SSA&P Report, Monthly Employment Utilization Reports, Certified Payroll) for 27 Contracts. Conducted project site interviews for 6 contracts. Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for 7 Contracts.

### MANPOWER PERFORMANCE

The manpower performance for October is measured against the approved planned staffing for this period from the 6th AWP. During October the actual staff level was 193 vs. the planned staff level of 175. Therefore, the actual staff count for October was 18 over the planned staffing level. The staff breakdown by company was 130 for the Joint Venture firms and 63 for the Associate Subcontractors. The increased staff was required for the processing of excessive field submittals and correspondence, requests for information, and for multishift inspection of construction work at various job sites.



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The October period had 160 available workhours/person. The plan provided for expenditure of 28,000 hours, including "as-required" manhours which would have generated a projected equivalent head count of 175.0 personnel at 160 hours/person. Actual hours expended were 29,514 which translates into a 184.46 equivalent head count at 160 hours/person including temporary personnel, resulting in the equivalent of 9.46 personnel over the plan.

Cumulative total hours incurred through October were 118,154 against a plan of 117,584 resulting in an over plan variance of 570 hours.

### EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in October measured on a cost accrual basis for the category of DBE, and on a percentage basis for the category of Minority and Women Affirmative Action were as follows:

- o Cumulative DBE participation for the Sixth Annual Work Plan through the month, measured against a total cost basis was 21.8%, 1.8% over the goal of 20%. Cumulative DBE participation since contract inception is 22.8%, 2.8% above the 20% goal.
- o Minority and Women Affirmative Action performance for the month exceeded the established goal of 17% for minorities by 23% and was below the goal of 8% for women by 1%.

### SCHEDULE PERFORMANCE

- o Contractor Submittals - During this period, 274 submittals were received per contract number as follows:  
A112 (6), A130 (15), A135 (30), A135BH (2), A141 (27), A145 (56), A146 (4), A165 (56), A167 (17), A171 (2), A175 (7), A610/A115 (14), A612 (1), A615 (0), A616 (3), A620 (20), A630 (0), A630 (0), A631 (6), A640 (3), A710 (1), A732 (0), A740 (3), and A745 (1); of the 274 received this period plus the 265 carryover from September, 350 packages were processed and returned to the contractors; the balance of 189 remain in review.





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### COST PERFORMANCE - Sixth Annual Work Plan

- o Total incurred costs of \$1,355,528 for CM Direct Services (excluding General Condition Items) for the period were under the plan of \$1,369,817 by \$14,289. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$21,627 and labor expenditures (total PDCD and subcontractors) being over the plan by \$7,338.
- o The cumulative costs for total CM Services (including General Condition Items) incurred through October were \$5,605,152 against a plan of \$5,947,526 resulting in an under plan of \$342,374.
- o The October CPR indicates an Estimate at Completion as of the 6th AWP (including General Condition Items) of \$16,865,101 versus a plan of \$16,872,967 for an underexpenditure of \$7,866.

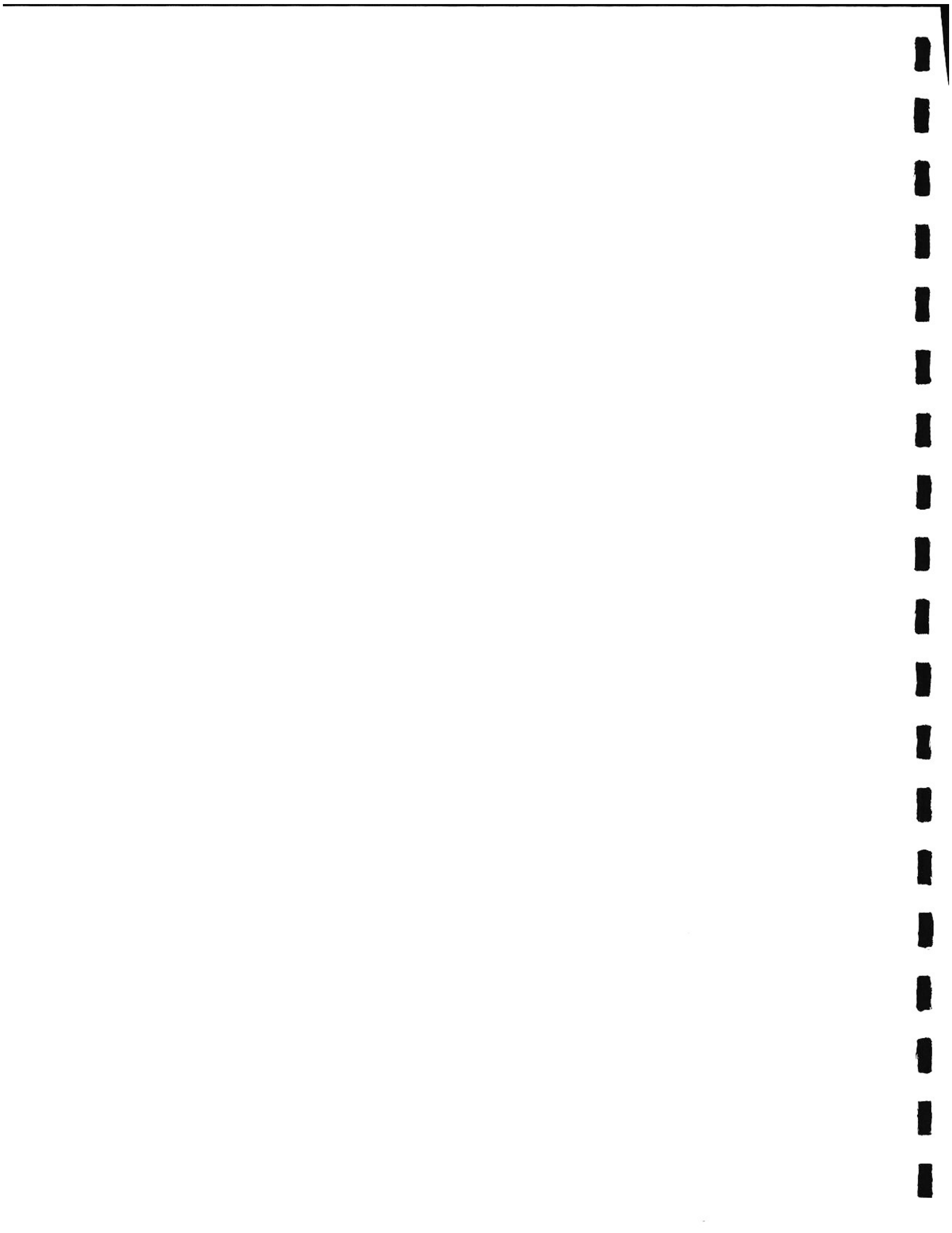
### GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$46,207 for the period were under the plan of \$64,692 for the period by \$18,485. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of \$793,686 which is over the plan of \$791,300 by \$2386.

### GENERAL

- o This "Monthly Contract Performance Report" covers progress relative to PDCD's CM Services contract with the RTD. For information on the status of construction/procurement contracts, see the "Monthly Status Report" produced by the District. A copy of the RTD report is distributed to previous recipients of the no longer produced PDCD "Monthly Construction Performance Report", as required.

  
Melvin L. Polacek  
Construction Manager







# **SECTION II**

## **MANPOWER PERFORMANCE**







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### II. MANPOWER PERFORMANCE

This CPR for the month of October compares actual manpower to the planned manpower in the approved 6th AWP. Table II-1, Page 10, illustrates planned staff vs. actual staff and variances for October.

During October, personnel assignments/deletions included the addition of 1 Senior Change Specialist, 2 Inspectors, 1 Secretary (Administration), and 1 Data Technician (Temp); and the deletion of 1 Senior Accountant, 1 Chief Inspector, 1 QA/QC Engineer (A/R), and 1 Estimating Consultant (A/R).

For the October period, under the approved 6th AWP, the total planned staffing level (including regular and as-required classifications) is 175. The actual staff (including regular, as-required and temporary classifications) was 193 resulting in 18 over the plan. The current actual staff by company for the October period is as follows:

| <u>Company</u>                            | <u>Staff<br/>Level</u> | <u>Company</u>                        | <u>Staff<br/>Level</u> |
|-------------------------------------------|------------------------|---------------------------------------|------------------------|
| The Ralph M. Parsons Company              | 56                     | Jenkins, Gales & Martinez, Inc.       | 10                     |
| Dillingham Construction, Inc.             | 55                     | Kal Krishnan Consulting               | 2                      |
| De Leuw, Cather & Company                 | 19                     | Martin & Huang International          | 4                      |
| Better Personnel Employment Services      | 9                      | North Pacific Construction Management | 6                      |
| Construction Control Services Corporation | 16                     | Ochoa & Sillas                        | -                      |
| Dames & Moore                             | 1                      | Randolph & Tate Associates            | -                      |
| D'Leon Consulting                         | 1                      | Transmetrics                          | 1                      |
| Engineering-Science, Inc.                 | 2                      | Manpower                              | 4                      |
| Jacobs Associates                         | 7                      |                                       |                        |

The PDCD Manpower Chart on Page 11 illustrates planned manpower for Construction Services for the Sixth Annual Work Plan period. Actual equivalent manpower is shown for the months of July through October.





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The October period had 160 available workhours/person. The plan provided for an expenditure of 28,000 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 175.0 personnel @ 160 hrs./person. Actual hours expended were 29,514 which translates into an equivalent head count of 184.46 @ 160 hrs./person including temporary personnel, resulting in the equivalent of 9.46 personnel over the plan.

The hours expended for the period were 29,514 versus a plan of 28,000. The 1,514 manhours variance for the period is calculated as follows:

9.46 equivalent staff over plan @ 160  
hours/period in plan =

1,514 hours

OCTOBER MANHOUR VARIANCE TO PLAN

1,514 hours

Cumulative total hours for the 6th AWP incurred through October were 118,154 against a plan of 117,584 resulting in an over plan variance of 570 hours (Page 23).



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TABLE II-1 CONSTRUCTION MANAGEMENT STAFF COUNT - OCTOBER  
SIXTH ANNUAL WORK PLAN

| Position                                                   | Phase II<br>Construction<br>Services |        | Variance | Phase II<br>Construction<br>Services |            | Variance |
|------------------------------------------------------------|--------------------------------------|--------|----------|--------------------------------------|------------|----------|
|                                                            | Planned                              | Actual |          | Planned (1)                          | Actual (2) |          |
| Construction Manager                                       | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Manager, Safety and Security                               | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Safety Inspectors                                          | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Manager, Quality Assurance (3)                             | 1                                    | 0      | (1)      | 1                                    | 0          | (1)      |
| QA/QC Engineers/Inspectors                                 | 0                                    | 1      | 1        | 0                                    | 1          | 1        |
| Manager, Project Administration/Accounting (5)             | 1                                    | 2      | 1        | 1                                    | 2          | 1        |
| Lead Accountant (5)                                        | 0                                    | 1      | 1        | 0                                    | 1          | 1        |
| Senior Accountant                                          | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Manager, Safety Relations                                  | 2                                    | 2      | 0        | 2                                    | 2          | 0        |
| Community Relations Coordinator                            | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Manager, ED Administration                                 | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| ED Administrator                                           | 1                                    | 0      | (1)      | 1                                    | 0          | (1)      |
| Labor Relations Advisor                                    | 0                                    | 0      | 0        | 0                                    | 0          | 0        |
| Legal Counsel                                              | 0                                    | 0      | 0        | 0                                    | 0          | 0        |
| Subtotal                                                   | 13                                   | 12     | (1)      | 18                                   | 29         | 11       |
|                                                            |                                      |        |          |                                      |            |          |
| DCM, Eng'r. Serv./Proj. Controls (4)                       | 0                                    | 0      | 0        | 1                                    | 1          | 0        |
| Manager, Eng'r. Serv./Proj. Contr. (4)                     | 0                                    | 0      | 0        | 1                                    | 1          | 0        |
| Manager, Administration and Staff Support (4)              | 1                                    | 1      | 0        | 1                                    | 0          | (1)      |
| Manager, Project Controls                                  | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Technical Data Coordinator                                 | 1                                    | 1      | 0        | 1                                    | 2          | 1        |
| Lead Cost Engineers                                        | 4                                    | 4      | 0        | 2                                    | 1          | (1)      |
| Cost Engineers                                             | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Lead Change Control                                        | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Change Control Specialist                                  | 1                                    | 1      | 0        | 1                                    | 2          | 1        |
| Claims Proc. Spec.                                         | 2                                    | 1      | (1)      | 1                                    | 1          | 0        |
| Data Technicians                                           | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Lead Planner/Scheduler                                     | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Planner/Schedulers                                         | 9                                    | 7      | (2)      | 10                                   | 12         | 2        |
| Estimators                                                 | 3                                    | 3      | 0        | 1                                    | 1          | 0        |
| Sr. Data Technician                                        | 1                                    | 1      | 0        | 1                                    | 3          | 2        |
| Computer Support                                           | 1                                    | 1      | 0        | 1                                    | 0          | (1)      |
| Lead Document Control Specialist                           | 1                                    | 1      | 0        | 4                                    | 4          | 0        |
| Document Control Specialist                                | 1                                    | 1      | 0        | 4                                    | 4          | 0        |
| Shop Drawings Coordinator                                  | 1                                    | 1      | 0        | 0                                    | 0          | 0        |
| Data Technician                                            | 1                                    | 2      | 1        | 1                                    | 1          | 0        |
| File Clerk                                                 | 1                                    | 2      | 1        | 1                                    | 1          | 0        |
| Manager, Contracts/Procurement (5)                         | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Sr. Contract Administrator                                 | 1                                    | 1      | 0        | 94                                   | 100        | 6        |
| Office Services Manager                                    | 1                                    | 1      | 0        | 135                                  | 193        | 58       |
| Secretarial/Word Processing/Clerical/<br>Drafting/ Courier | 14                                   | 16     | 2        | Totals                               |            |          |
| Subtotal                                                   | 50                                   | 52     | 2        |                                      |            |          |
|                                                            |                                      |        |          |                                      |            |          |
| Manager, Engineering Services/<br>Structural Engineering   | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Drafting Technicians                                       | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Lead Architect                                             | 0                                    | 1      | 1        | 0                                    | 1          | 1        |
| Architect                                                  | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Lead Electrical Engineer                                   | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Lead Engineer, Geotech. Section                            | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Engineers, Geotech. Section                                | 4                                    | 3      | (1)      | 4                                    | 3          | (1)      |
| Lead Mechanical Engineer                                   | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Mechanical Engineer                                        | 0                                    | 1      | 1        | 0                                    | 1          | 1        |
| Lead Structural Engineer                                   | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Sr. Struct./Struct. Engineers                              | 2                                    | 2      | 0        | 2                                    | 2          | 0        |
| Struct. Systems Engineer                                   | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Office Engineer                                            | 0                                    | 0      | 0        | 2                                    | 1          | (1)      |
| Subtotal                                                   | 18                                   | 18     | 0        | 29                                   | 29         | 0        |
|                                                            |                                      |        |          |                                      |            |          |
| DCM, Operations                                            | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Manager, General Services                                  | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Lead Utilities Engineer                                    | 1                                    | 1      | 0        | 1                                    | 0          | (1)      |
| Party Chief                                                | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Instrument Person                                          | 1                                    | 1      | 0        | 1                                    | 2          | 1        |
| Rod Person                                                 | 1                                    | 1      | 0        | 2                                    | 1          | (1)      |
| Lead Environmental Engineer                                | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Environmental Specialists                                  | 3                                    | 3      | 0        | 1                                    | 2          | 1        |
| Engineering Technician/Coordinator                         | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Resident Engineers                                         | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Chief Inspectors                                           | 8                                    | 8      | 0        | 8                                    | 8          | 0        |
| Sr. Inspectors/Inspectors                                  | 34                                   | 37     | 3        | 34                                   | 37         | 3        |
| Office Engineers                                           | 9                                    | 11     | 2        | 9                                    | 11         | 2        |
| Field Secretaries/Clerical                                 | 10                                   | 12     | 2        | 10                                   | 12         | 2        |
| Manager, Systemwide Construction                           | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Office Engineer                                            | 3                                    | 3      | 0        | 1                                    | 1          | 0        |
| Resident Engineers                                         | 4                                    | 4      | 0        | 4                                    | 4          | 0        |
| Secretaries/Clerical                                       | 4                                    | 4      | 0        | 4                                    | 4          | 0        |
| Inspector                                                  | 0                                    | 0      | 0        | 0                                    | 0          | 0        |
| Data Technicians                                           | 1                                    | 1      | 0        | 1                                    | 1          | 0        |
| Subtotal                                                   | 94                                   | 100    | 6        | Subtotal                             | 100        | 6        |
| Totals                                                     | 135                                  | 193    | 58       | Totals                               | 193        | 58       |

#### NOTES:

- (1) The "Planned" staff count is taken directly from the RTO approved PDCD 6th AMP. It is the planned staff count for the reported month and includes both "Regular" and "As-required" classifications.
- (2) The "Actual" staff count is the total actual staff count by Job Position. Included are regular, as-required and temporary staff.
- (3) As of July 1, 1989, the duties of the Manager, Quality Assurance have been reassigned to the Lead Engineer.
- (4) Effective July 1, 1989, the Manager of Administration and Staff Support assumed the position of DCM, Project Engineering/Controls Services and the position title was changed to Manager, Engineering Services/Project Controls.
- (5) Effective July 1, 1989, the Manager, Contracts/Procurement assumed the administrative duties previously handled by the Manager, Project Administration/Accounting.
- (6) Effective August 1, 1989, the Lead Accountant assumed the accounting duties previously handled by the Manager, Project Administration/Accounting and the title "Manager, Project Administration/Accounting" was eliminated.



# LOS ANGELES METRO RED LINE

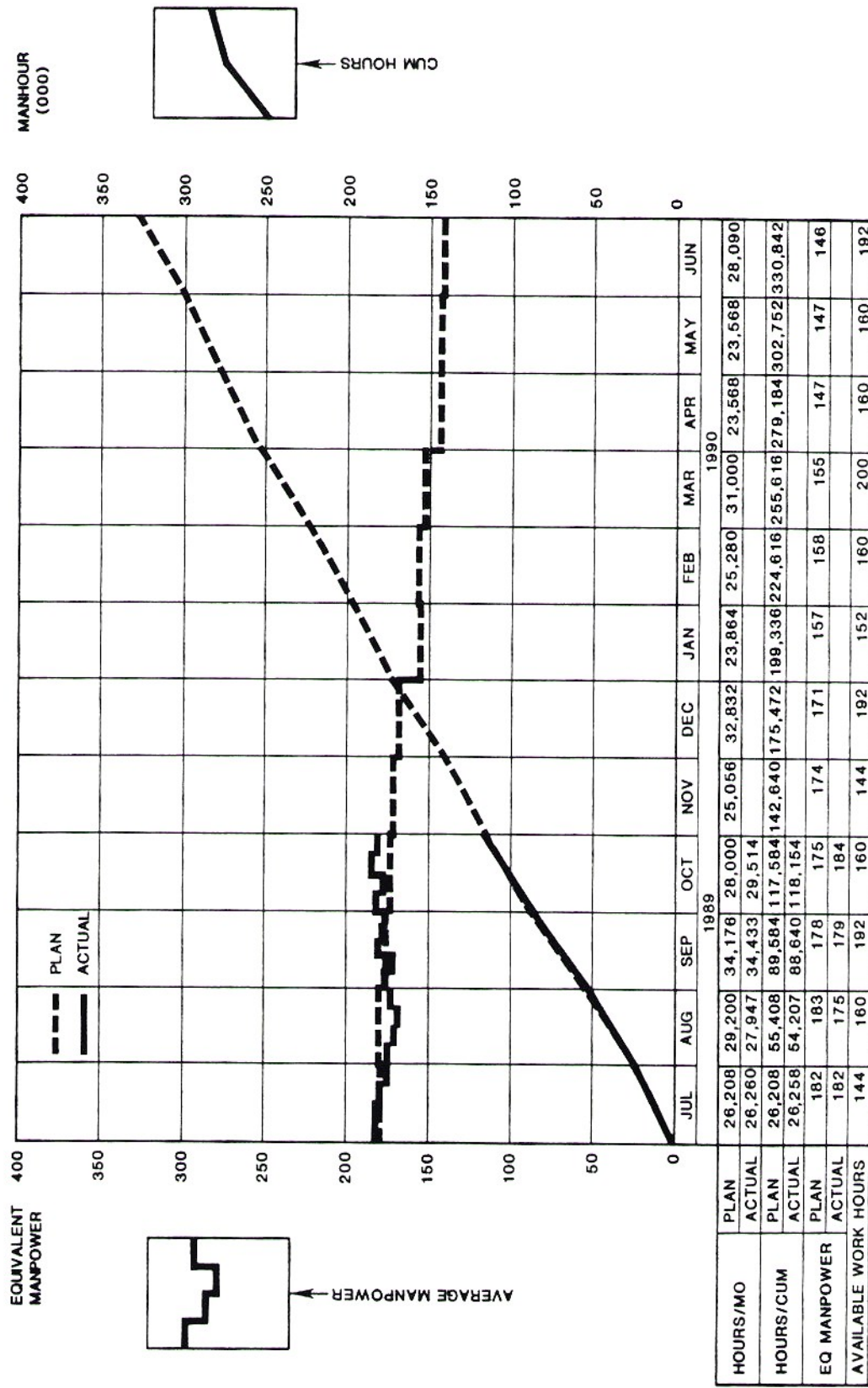
## CONTRACT PERFORMANCE

### REPORT

#### SIXTH ANNUAL WORK PLAN

PDCD

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PDCD MANPOWER

Parsons-Dillingham-De Leuw, Cather





# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

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### SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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| MANHOURS BY FUNCTIONAL DEPARTMENT |        |            |        |        |        |        |        |        |        |        |         |         |         | TOTALS  |         |
|-----------------------------------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| DESCRIPTION (MHRS)                | JUL    | AUG        | SEP    | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY     | JUN     | TOTALS  |         |         |
| A PROJECT MANAGEMENT              | PLAN   | current    | 2,448  | 2,720  | 3,264  | 2,720  | 2,448  | 3,264  | 2,417  | 2,544  | 2,980   | 2,384   | 2,224   | 2,669   | 32,082  |
|                                   |        | cumulative | 2,448  | 5,168  | 8,432  | 11,152 | 13,600 | 16,864 | 19,281 | 21,825 | 24,805  | 27,189  | 29,413  | 32,082  |         |
|                                   | ACTUAL | current    | 2,729  | 2,602  | 3,280  | 3,066  | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 11,677  |
|                                   |        | cumulative | 2,729  | 5,331  | 8,611  | 11,677 | 11,677 | 11,677 | 11,677 | 11,677 | 11,677  | 11,677  | 11,677  | 11,677  |         |
| C. FAC. CONSTRUCTION              | PLAN   | current    | 10,800 | 11,920 | 13,440 | 11,200 | 9,792  | 12,672 | 8,968  | 9,440  | 11,800  | 8,960   | 9,120   | 10,944  | 129,056 |
|                                   |        | cumulative | 10,800 | 22,720 | 36,160 | 47,360 | 57,152 | 69,824 | 78,792 | 88,232 | 100,032 | 108,992 | 118,112 | 129,056 |         |
|                                   | ACTUAL | current    | 11,255 | 11,876 | 14,473 | 11,745 | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 49,349  |
|                                   |        | cumulative | 11,255 | 23,131 | 37,604 | 49,349 | 49,349 | 49,349 | 49,349 | 49,349 | 49,349  | 49,349  | 49,349  | 49,349  |         |
| E SYSTEMWIDE CONST                | PLAN   | current    | 1,872  | 2,080  | 2,496  | 2,080  | 2,016  | 2,688  | 2,417  | 2,544  | 3,180   | 2,704   | 2,704   | 3,245   | 30,026  |
|                                   |        | cumulative | 1,872  | 3,952  | 6,448  | 8,528  | 10,544 | 13,232 | 15,649 | 18,193 | 21,373  | 24,077  | 26,781  | 30,026  |         |
|                                   | ACTUAL | current    | 1,559  | 1,659  | 2,210  | 1,981  | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 7,409   |
|                                   |        | cumulative | 1,559  | 3,218  | 5,428  | 7,409  | 7,409  | 7,409  | 7,409  | 7,409  | 7,409   | 7,409   | 7,409   | 7,409   |         |
| F GENERAL SERVICES                | PLAN   | current    | 1,440  | 1,600  | 1,920  | 1,600  | 1,440  | 1,920  | 1,094  | 1,152  | 1,440   | 1,024   | 1,024   | 1,229   | 16,883  |
|                                   |        | cumulative | 1,440  | 3,040  | 4,960  | 6,560  | 8,000  | 9,920  | 11,014 | 12,166 | 13,606  | 14,630  | 15,654  | 16,883  |         |
|                                   | ACTUAL | current    | 1,486  | 1,549  | 1,600  | 1,406  | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 6,041   |
|                                   |        | cumulative | 1,486  | 3,035  | 4,635  | 6,041  | 6,041  | 6,041  | 6,041  | 6,041  | 6,041   | 6,041   | 6,041   | 6,041   |         |
| K PROJECT CONTROLS                | PLAN   | current    | 3,960  | 4,400  | 5,280  | 4,400  | 4,104  | 5,472  | 3,739  | 3,936  | 4,720   | 3,392   | 3,392   | 4,070   | 50,865  |
|                                   |        | cumulative | 3,960  | 8,360  | 13,640 | 18,040 | 22,144 | 27,616 | 31,355 | 35,291 | 40,011  | 43,403  | 46,795  | 50,865  |         |
|                                   | ACTUAL | current    | 3,457  | 3,887  | 4,067  | 3,687  | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 15,098  |
|                                   |        | cumulative | 3,457  | 7,344  | 11,411 | 15,098 | 15,098 | 15,098 | 15,098 | 15,098 | 15,098  | 15,098  | 15,098  | 15,098  |         |



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PDCD

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## SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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| DESCRIPTION (MHS)                 |        | JUL        | AUG   | SEP   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | TOTALS |
|-----------------------------------|--------|------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MANHOURS BY FUNCTIONAL DEPARTMENT |        |            |       |       |        |        |        |        |        |        |        |        |        |        |
| L PROCUREMENT                     | PLAN   | current    | 432   | 480   | 576    | 320    | 288    | 384    | 274    | 288    | 256    | 256    | 307    | 4,221  |
|                                   |        | cumulative | 432   | 912   | 1,488  | 1,808  | 2,096  | 2,480  | 2,754  | 3,042  | 3,658  | 3,914  | 4,221  |        |
|                                   | ACTUAL | current    | 249   | 309   | 352    | 295    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1,205  |
|                                   |        | cumulative | 249   | 558   | 910    | 1,205  | 1,205  | 1,205  | 1,205  | 1,205  | 1,205  | 1,205  | 1,205  |        |
| M ENG. SVCS./SYST. INTEGR. PLAN   | PLAN   | current    | 2,520 | 2,960 | 3,360  | 2,800  | 2,232  | 2,976  | 2,842  | 2,832  | 2,608  | 2,448  | 3,130  | 34,248 |
|                                   |        | cumulative | 2,520 | 5,480 | 8,840  | 11,640 | 13,872 | 16,848 | 19,690 | 22,522 | 28,670 | 31,118 | 34,248 |        |
|                                   | ACTUAL | current    | 2,913 | 2,950 | 5,135  | 4,762  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 15,760 |
|                                   |        | cumulative | 2,913 | 5,863 | 10,998 | 15,760 | 15,760 | 15,760 | 15,760 | 15,760 | 15,760 | 15,760 | 15,760 |        |
| N COMMUNITY RELATIONS             | PLAN   | current    | 288   | 320   | 384    | 320    | 288    | 384    | 152    | 160    | 160    | 160    | 192    | 3,008  |
|                                   |        | cumulative | 288   | 608   | 992    | 1,312  | 1,600  | 1,984  | 2,136  | 2,296  | 2,656  | 2,816  | 3,008  |        |
|                                   | ACTUAL | current    | 248   | 265   | 272    | 156    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 941    |
|                                   |        | cumulative | 248   | 513   | 785    | 941    | 941    | 941    | 941    | 941    | 941    | 941    | 941    |        |
| P SAFETY                          | PLAN   | current    | 288   | 320   | 384    | 320    | 288    | 384    | 304    | 320    | 256    | 256    | 307    | 3,827  |
|                                   |        | cumulative | 288   | 608   | 992    | 1,312  | 1,600  | 1,984  | 2,288  | 2,608  | 3,264  | 3,520  | 3,827  |        |
|                                   | ACTUAL | current    | 200   | 320   | 340    | 280    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1,140  |
|                                   |        | cumulative | 200   | 520   | 860    | 1,140  | 1,140  | 1,140  | 1,140  | 1,140  | 1,140  | 1,140  | 1,140  |        |
| Q QUALITY ASSURANCE               | PLAN   | current    | 432   | 480   | 576    | 320    | 288    | 384    | 274    | 288    | 288    | 288    | 346    | 4,324  |
|                                   |        | cumulative | 432   | 912   | 1,488  | 1,808  | 2,096  | 2,480  | 2,754  | 3,042  | 3,690  | 3,978  | 4,324  |        |
|                                   | ACTUAL | current    | 338   | 402   | 520    | 438    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1,698  |
|                                   |        | cumulative | 338   | 740   | 1,260  | 1,698  | 1,698  | 1,698  | 1,698  | 1,698  | 1,698  | 1,698  | 1,698  |        |



# LOS ANGELES METRO RED LINE

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PDCD

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### SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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| DESCRIPTION (MHS)                 | JUL        | AUG    | SEP    | OCT    | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | TOTALS  |
|-----------------------------------|------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| MANHOURS BY FUNCTIONAL DEPARTMENT |            |        |        |        |         |         |         |         |         |         |         |         |         |
| R PROJECT ADMIN.                  | PLAN       | 1,440  | 1,600  | 1,920  | 1,440   | 1,920   | 1,383   | 1,616   | 1,820   | 1,536   | 1,376   | 1,651   | 19,302  |
|                                   | current    | 1,440  | 3,040  | 4,960  | 6,560   | 8,000   | 11,303  | 12,919  | 14,739  | 16,275  | 17,651  | 19,302  |         |
|                                   | cumulative | 1,440  | 3,040  | 4,960  | 6,560   | 8,000   | 11,303  | 12,919  | 14,739  | 16,275  | 17,651  | 19,302  |         |
|                                   | ACTUAL     | 1,581  | 1,856  | 1,914  | 1,554   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 6,905   |
| S EQUAL OPPORTUNITY               | PLAN       | 1,581  | 3,437  | 5,351  | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   |
|                                   | current    | 1,581  | 3,437  | 5,351  | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   |         |
|                                   | cumulative | 1,581  | 3,437  | 5,351  | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   |         |
|                                   | ACTUAL     | 1,581  | 3,437  | 5,351  | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   | 6,905   |         |
| T LABOR RELATIONS                 | PLAN       | 288    | 320    | 384    | 320     | 288     | 0       | 0       | 0       | 0       | 0       | 0       | 1,984   |
|                                   | current    | 288    | 608    | 992    | 1,312   | 1,600   | 1,984   | 1,984   | 1,984   | 1,984   | 1,984   | 1,984   |         |
|                                   | cumulative | 288    | 608    | 992    | 1,312   | 1,600   | 1,984   | 1,984   | 1,984   | 1,984   | 1,984   | 1,984   |         |
|                                   | ACTUAL     | 245    | 272    | 270    | 144     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 931     |
| U LEGAL                           | PLAN       | 245    | 517    | 787    | 931     | 931     | 931     | 931     | 931     | 931     | 931     | 931     | 931     |
|                                   | current    | 245    | 517    | 787    | 931     | 931     | 931     | 931     | 931     | 931     | 931     | 931     |         |
|                                   | cumulative | 245    | 517    | 787    | 931     | 931     | 931     | 931     | 931     | 931     | 931     | 931     |         |
|                                   | ACTUAL     | 245    | 517    | 787    | 931     | 931     | 931     | 931     | 931     | 931     | 931     | 931     |         |
| TOTAL (HOURS)                     | PLAN       | 26,208 | 29,200 | 34,176 | 28,000  | 25,056  | 32,832  | 23,864  | 31,000  | 23,568  | 23,568  | 28,090  | 330,842 |
|                                   | current    | 26,208 | 55,408 | 89,584 | 117,584 | 142,640 | 175,472 | 199,336 | 255,616 | 279,184 | 302,752 | 330,842 |         |
|                                   | cumulative | 26,208 | 55,408 | 89,584 | 117,584 | 142,640 | 175,472 | 199,336 | 255,616 | 279,184 | 302,752 | 330,842 |         |
|                                   | ACTUAL     | 26,260 | 27,947 | 34,433 | 29,514  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 118,154 |
| TOTAL (HOURS)                     | PLAN       | 26,260 | 54,207 | 88,640 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 |
|                                   | current    | 26,260 | 54,207 | 88,640 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 |         |
|                                   | cumulative | 26,260 | 54,207 | 88,640 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 |         |
|                                   | ACTUAL     | 26,260 | 54,207 | 88,640 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 | 118,154 |         |







## SECTION III

# EQUAL OPPORTUNITY PERFORMANCE







# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

**PDCD**

PERIOD OCTOBER 1989

### III. EQUAL OPPORTUNITY PERFORMANCE

#### DBE Participation

The monthly DBE participation for the Sixth Annual Work Plan for October measured on the basis of accrued total cost was 21.8%, 1.8% above the 20% goal. The cumulative percentage for the Sixth Annual Work Plan was 23.5%, 3.5% above the 20% goal (Figure 1 on Page 16). The cumulative percentage for the total contract from its inception in July 1984 is 22.8%, 2.8% above the 20% goal.

#### Affirmative Action Analysis

The Affirmative Action Analysis, as indicated in Figure 2 on Page 16, shows the established goal of 17% for minorities was exceeded by 23%. The Affirmative Action Analysis for women, as indicated in Figure 3 on Page 16, shows 7%, which is below the goal of 8% by 1.0%.



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT SIXTH ANNUAL WORK PLAN

PDCD

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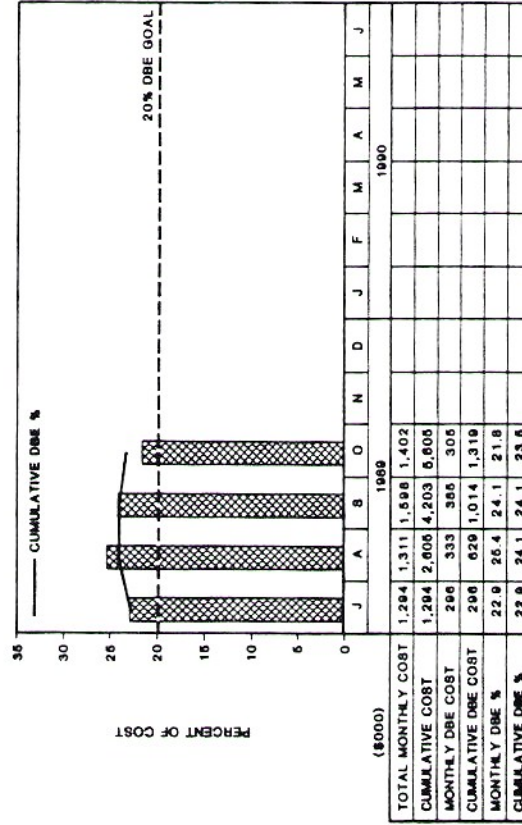


FIGURE 1 - DBE ANALYSIS

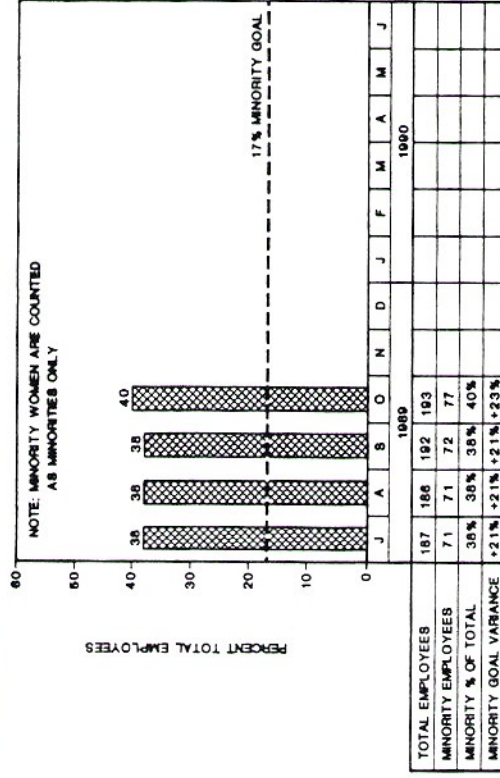


FIGURE 2 - MINORITY AFFIRMATIVE ACTION ANALYSIS

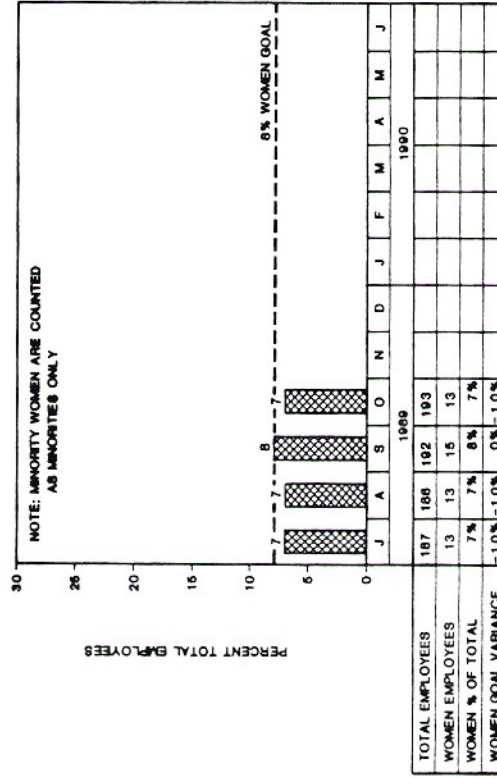


FIGURE 3 - WOMEN AFFIRMATIVE ACTION ANALYSIS

SECTION IV

SCHEDULE PERFORMANCE







# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

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### IV. SCHEDULE PERFORMANCE

**CONTRACTOR SUBMITTALS** - During this period, 274 submittals were received from the Construction Contractors and 265 were carried over from September. 350 packages were processed (approved, approved-as-noted, rejected and reviewed for record only) and returned to the Contractors as shown in the following tabulation. The balance of 189 are still under review.

| Contracts  | Carryover<br>From Sept. | No. Of Submittals<br>Received in Oct. | Submittals Processed<br>Within 30 Days | Submittal Processed<br>In Over 30 Days | Carryover<br>To November |
|------------|-------------------------|---------------------------------------|----------------------------------------|----------------------------------------|--------------------------|
| A112✓      | 7                       | 6✓                                    | 5                                      | 3                                      | 5✓                       |
| A130       | 34                      | 15                                    | 30                                     | 10                                     | 9                        |
| A135       | 30                      | 30                                    | 24                                     | 9                                      | 27                       |
| A135BH     | 9                       | 2                                     | 3                                      | 0                                      | 8                        |
| 141        | 19                      | 27                                    | 22                                     | 5                                      | 19                       |
| A145/A145A | 39                      | 56                                    | 49                                     | 9                                      | 37                       |
| A146       | 4                       | 4                                     | 2                                      | 2                                      | 4                        |
| A165       | 41                      | 56                                    | 55                                     | 16                                     | 26                       |
| A167       | 18                      | 17                                    | 20                                     | 1                                      | 14                       |
| A171       | 2                       | 2                                     | 4                                      | 0                                      | 0                        |
| A175       | 18                      | 7                                     | 13                                     | 5                                      | 7                        |
| A610/A115  | 19                      | 14                                    | 23                                     | 2                                      | 8                        |
| A612       | 0                       | 1                                     | 1                                      | 0                                      | 0                        |
| A615       | 1                       | 0                                     | 1                                      | 0                                      | 0                        |
| A616       | 10                      | 3                                     | 4                                      | 0                                      | 9                        |
| A620       | 9                       | 20                                    | 19                                     | 0                                      | 10                       |
| A630       | 2                       | 0                                     | 2                                      | 0                                      | 0                        |
| A631       | 1                       | 6                                     | 3                                      | 0                                      | 4                        |
| A640       | 1                       | 3                                     | 1                                      | 3                                      | 0                        |
| A710       | 0                       | 1                                     | 1                                      | 0                                      | 0                        |
| A732✓      | 1                       | 0                                     | 0                                      | 0                                      | 1                        |
| A740       | 0                       | 3                                     | 2                                      | 0                                      | 1                        |
| A745       | 0                       | 1                                     | 1                                      | 0                                      | 0                        |
| TOTAL      | 265                     | 274                                   | 285                                    | 65                                     | 189                      |



# LOS ANGELES METRO RED LINE

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**Construction Package Reviews** - Analysis of the activities on the "Design Packages Status Window Report, Current Period", (Page 19), shows the following document review:

- o Constructibility Reviews Completed Constructibility Review of A760/100%, Signing and Edgelights.
- o Claims Avoidance Review - Completed Claims Avoidance Review (CAR) of A760/100%, Signing and Edgelights. Continue CAR of A147, Civic Center Station, Stage II and A157, 5th/Hill Station, Stage II.

**Training Programs** - The following training programs were underway during the October period:

- o Provided specialized underground safety training/indoctrination for PDCD staff, MRTC and visitors.





LOS ANGELES METRO RED LINE  
CONTRACT PERFORMANCE  
REPORT

PDCD

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DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD  
9-30-89 TO 10-27-89

| Contract # | Description                        | Pkg<br>Type | Review<br>Code | Schedule<br>Receipt | Received | Schedule<br>Complete | Actual<br>Complete | Remarks                             |
|------------|------------------------------------|-------------|----------------|---------------------|----------|----------------------|--------------------|-------------------------------------|
| A-147      | CIVIC CENTER STATION<br>(STAGE II) | DMGS        | CAR            | 08-16-89            | 08-17-89 | 10-27-89             |                    | *RESCHEDULED TO 11-10-89 BY<br>PDCD |
| A-147      | CIVIC CENTER STATION<br>(STAGE II) | SPEC        | CAR            | 08-16-89            | 08-30-89 | 10-27-89             |                    | *RESCHEDULED TO 11-10-89 BY<br>PDCD |
| **         |                                    |             |                |                     |          |                      |                    |                                     |
| A-157      | 5TH/HILL STATION (STAGE<br>II)     | DMGS        | CAR            | 08-14-89            | 08-16-89 | 10-06-89             |                    | *RESCHEDULED TO 11-3-89 BY<br>PDCD  |
| A-157      | 5TH/HILL STATION (STAGE<br>II)     | SPEC        | CAR            | 08-14-89            | 08-22-89 | 10-06-89             |                    | *RESCHEDULED TO 11-3-89 BY<br>PDCD  |
| **         |                                    |             |                |                     |          |                      |                    |                                     |
| A-760      | SIGNING AND EDGE LIGHTS            | DMGS        | CAR            | 09-08-89            | 09-19-89 | 09-29-89             | 10-17-89           | *RESCHEDULED TO 10-13-89 BY<br>PDCD |
|            |                                    |             | DC100          | 09-08-89            | 09-19-89 | 09-13-89             | 10-17-89           | *RESCHEDULED TO 10-13-89 BY<br>PDCD |
| A-760      | SIGNING AND EDGE LIGHTS            | SPEC        | CAR            | 09-08-89            | 09-19-89 | 09-29-89             | 10-17-89           | *RESCHEDULED TO 10-13-89 BY<br>PDCD |
|            |                                    |             | DC100          | 09-08-89            | 09-19-89 | 09-29-89             | 10-17-89           | *RESCHEDULED TO 10-13-89 BY<br>PDCD |
| **         |                                    |             |                |                     |          |                      |                    |                                     |

6 records listed. 8 values listed.

Review Codes : LT60 - Less than 60%  
PF90 - Prefinal 90%  
CAR- Claims Avoidance Review  
IP60 - In progress 60%  
FS100 - Final submittal 100%  
CE - Check Estimate  
PF85 - Prefinal 85%  
DC100 - Final design complete 100%

NOTE : Based on 10-03-89, MRTC Design Review Schedule

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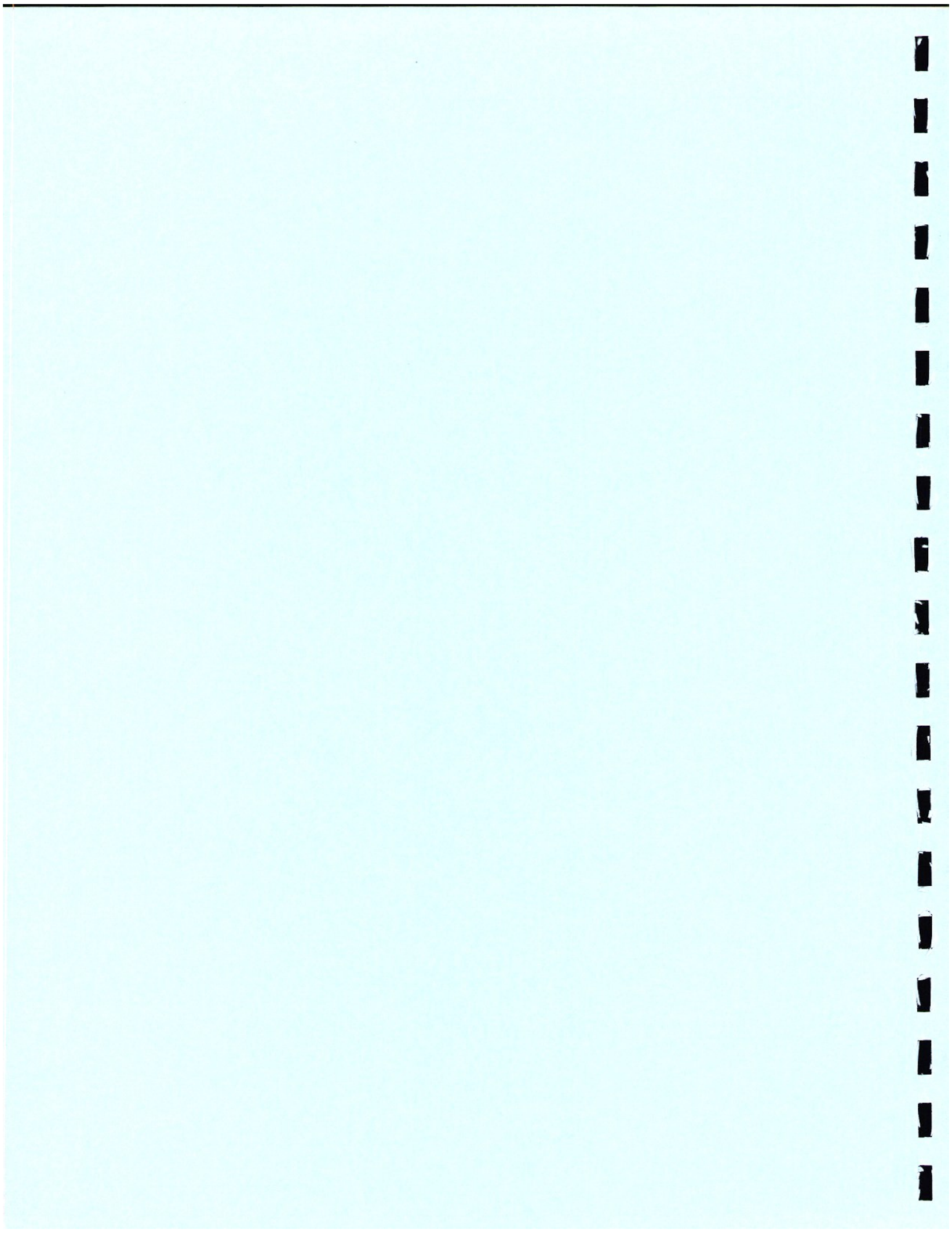




# **SECTION V**

## **COST PERFORMANCE**







# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

### SIXTH ANNUAL WORK PLAN

Total incurred costs of \$1,355,528 (Page 25) for CM Direct Services (without General Condition Items) for the period were under the plan of \$1,369,817 by \$14,289. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$21,627 and Labor expenditures (total PDCD and subcontractors) being over the plan by \$7,338.

The cumulative costs for total CM Services (including General Condition Items) incurred through October were \$5,605,152 against a plan of \$5,947,526 resulting in an under plan expenditure of \$342,374 (Page 25).

The October CPR forecasts (Page 25) a total CM Services Estimate At Completion of \$16,865,101 versus a plan of \$16,872,967 for an underexpenditure of \$7,866. Extracting the General Condition Items for separate reporting, the October CPR forecasts a CM Direct Services Estimate At Completion of \$16,071,415 versus a plan of \$16,081,667 for an under plan expenditure of \$10,252.

### GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$46,207 were under the plan of \$64,692 for the period by \$18,485. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of \$793,686 versus a plan of \$791,300, for a projected overplan expenditure of \$2,386. (page 24)

### LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$43.00/hr. compared to a plan rate of \$45.06 (-)/hr., resulted in a difference of \$2.06 per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE  
9.4625 equivalent staff over plan @ 160  
hours at \$45.0589/hour =

IMPACT ON OCTOBER COSTS

\$ 68,219



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

### RATE VARIANCE

184.4625 actual staff equivalent @ 160 hours  
@ \$2.06278931/hour =

(60,881)

### OCTOBER COST VARIANCE TO PLAN

\$ 7,338  
-----

### OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of \$21,627 as follows:

| DESCRIPTION                   | CURRENT PERIOD DOLLARS |                | BUDGET         | CUMULATIVE DOLLARS |                 |
|-------------------------------|------------------------|----------------|----------------|--------------------|-----------------|
|                               | ACTUAL                 | VARIANCE       |                | ACTUAL             | VARIANCE        |
| (1)Field Office Expenses      | 55,300                 | -10,760        | 221,200        | 179,882            | -41,318         |
| (2)Office Equipment           | 3,725                  | -3,152         | 14,900         | 6,744              | -8,156          |
| (3)Travel & Relocation        | 18,142                 | -10,885        | 72,567         | 33,663             | -38,904         |
| (4)Vehicles & Maintenance     | 4,900                  | 2,622          | 19,600         | 18,259             | -1,341          |
| (5)Reproduction               | 6,050                  | -1,426         | 24,200         | 18,654             | -5,546          |
| (6)Telephone & Telex          | 5,950                  | -323           | 23,800         | 20,961             | -2,839          |
| (7)Computer Operation Support | 2,292                  | 69             | 9,167          | 10,396             | 1,229           |
| (8)Gross Receipt Tax          | 7,834                  | - 883          | 31,334         | 30,151             | -1,183          |
| (9)Field Equipment            | 3,975                  | -3,111         | 15,900         | 13,665             | -2,235          |
| S/T ODC's                     | <u>108,168</u>         | <u>-21,627</u> | <u>432,668</u> | <u>332,375</u>     | <u>-100,293</u> |

### NOTES

- (1) Field Office Expenses - underexpenditure due to less than planned purchase of supplies and parking.
- (2) Office Equipment - underexpenditure due to lower than planned expenditures.
- (3) Travel and Relocation - underexpenditure due to planned travel not materializing.
- (4) Vehicles & Maintenance - overexpenditure due to higher than planned vehicle maintenance costs.
- (5) Reproduction - underexpenditure due to lower than planned reproductions.
- (6) Telephone and Telex - underexpenditure due to lower communications cost.
- (7) Computer Operation Support - overexpenditure due to higher than normal DMCS costs.
- (8) Gross Receipt Tax - varies directly with the actual cumulative rate of expenditure per period.
- (9) Field Equipment - overexpenditure due to higher than planned environmental expenditures in the current period.





# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

### CM COST PERFORMANCE - OCTOBER 1989 SIXTH ANNUAL WORK PLAN CONSTRUCTION (\$000)

|                              | PLANNED     | ACTUAL      | VARIANCE  | %       |
|------------------------------|-------------|-------------|-----------|---------|
| PDCD                         |             |             |           |         |
| LABOR, BURDENS, FEE          |             |             |           |         |
| CUMULATIVE THROUGH SEPTEMBER | \$ 2598     | \$ 2541     | \$ (57)   | -2.19%  |
| CURRENT MONTH                | 820         | 851         | 31        | 3.78%   |
| CUMULATIVE THROUGH OCTOBER   | \$ 3418     | \$ 3392     | \$ (26)   | -0.76%  |
| TRAVEL AND ODC'S             |             |             |           |         |
| CUMULATIVE THROUGH SEPTEMBER | \$ 325      | \$ 245      | \$ (80)   | -24.62% |
| CURRENT MONTH                | 108         | 87          | (21) *    | -19.44% |
| CUMULATIVE THROUGH OCTOBER   | \$ 433      | \$ 332      | \$ (101)  | -23.33% |
| SUBCONTRACTORS               |             |             |           |         |
| CUMULATIVE THROUGH SEPTEMBER | \$ 1,396    | \$ 1,289    | \$ (107)  | -7.66%  |
| CURRENT MONTH                | 442         | 418         | (24)      | -5.43%  |
| CUMULATIVE THROUGH OCTOBER   | \$ 1,838    | \$ 1,707    | \$ (131)  | -7.13%  |
| SUBTOTAL CM DIRECT SERVICES  |             |             |           |         |
| CUMULATIVE THROUGH SEPTEMBER | \$ 4,319    | \$ 4,075    | \$ (244)  | -5.65%  |
| CURRENT MONTH                | 1,370       | 1,356       | (14)      | -1.02%  |
| CUMULATIVE THROUGH OCTOBER   | \$ 5,689    | \$ 5,431    | \$ (258)  | -4.54%  |
| GENERAL CONDITION ITEMS      |             |             |           |         |
| CUMULATIVE THROUGH SEPTEMBER | \$ 194      | \$ 128      | \$ (66)   | -34.02% |
| CURRENT MONTH                | 65          | 46          | (19) *    | -29.23% |
| CUMULATIVE THROUGH OCTOBER   | \$ 259      | \$ 174      | \$ (85)   | -32.82% |
| TOTAL CM SERVICES            |             |             |           |         |
| CUMULATIVE THROUGH SEPTEMBER | \$ 4,513    | \$ 4,203    | \$ (310)  | -6.87%  |
| CURRENT MONTH                | 1,435       | 1,402       | (33)      | -2.30%  |
| CUMULATIVE THROUGH OCTOBER   | \$ 5,948    | \$ 5,605    | \$ (343)  | -5.77%  |
| HOURS                        |             |             |           |         |
| CUMULATIVE THROUGH SEPTEMBER | 89,584 hrs  | 88,640 hrs  | (944) hrs | -1.05%  |
| CURRENT MONTH                | 28,000      | 29,514      | 1,514     | 5.41%   |
| CUMULATIVE THROUGH OCTOBER   | 117,584 hrs | 118,154 hrs | 570 hrs   | 0.48%   |

\* OFF BY ONE DUE TO ROUNDING

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# LOS ANGELES METRO RED LINE

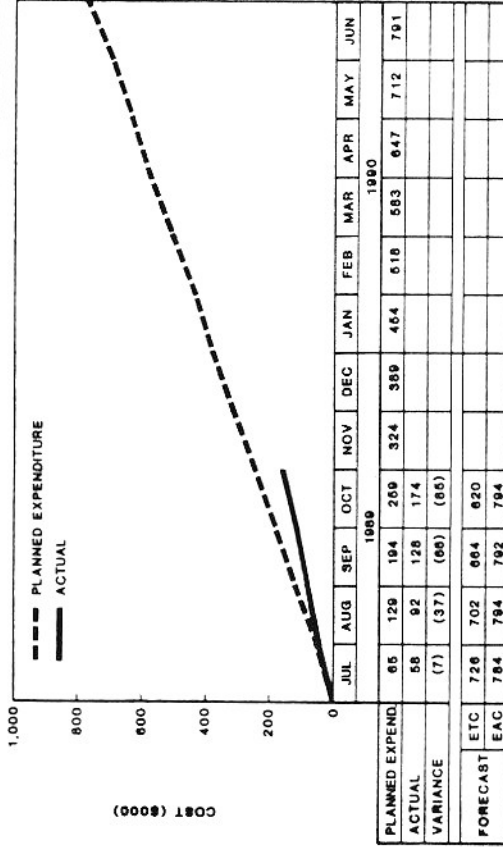
PDCD

## CONTRACT PERFORMANCE

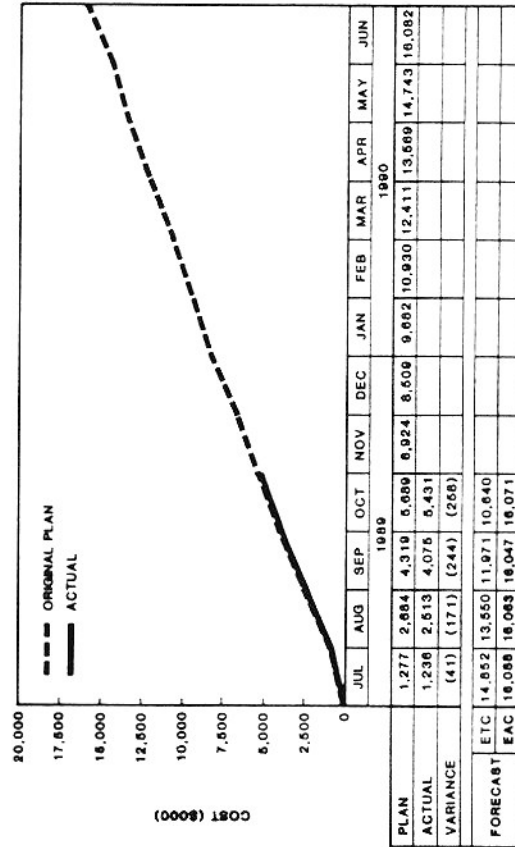
### REPORT

#### SIXTH ANNUAL WORK PLAN

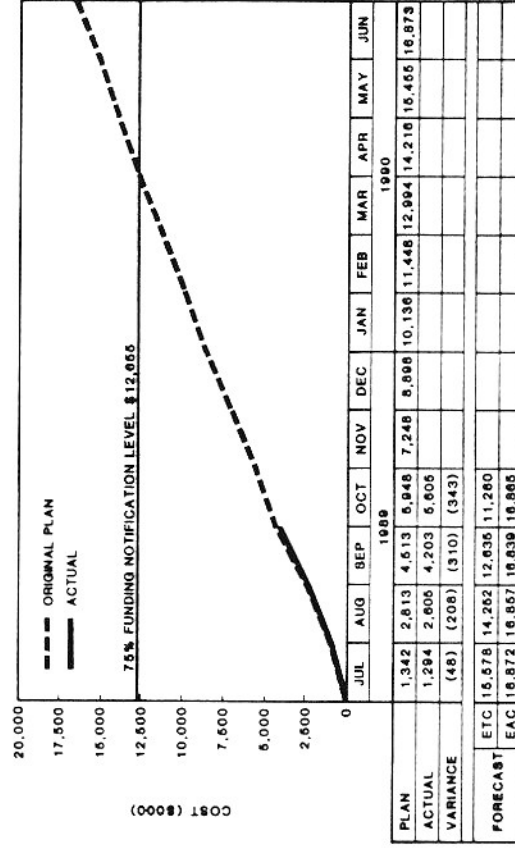
PERIOD OCTOBER 1989



#### GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



#### CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



#### TOTAL CM SERVICES (INCLUDING G.C.I.'s) CUMULATIVE COST PERFORMANCE

Parsons-Dillingham-De Leuw, Cather



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

### PDCD CM SERVICES - 6TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING OCT 27, 1989 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION GENERAL CONDITION ITEMS

| RESPONSIBILITY<br>CD-DESCRIPTION | CURRENT PERIOD DOLLARS |        | CUMULATIVE DOLLARS |         | ESTIMATE |          | AT COMPLETION DOLLARS |          |
|----------------------------------|------------------------|--------|--------------------|---------|----------|----------|-----------------------|----------|
|                                  | BUDGET                 | ACTUAL | BUDGET             | ACTUAL  | TO COMPL | VARIANCE | BUDGET                | ESTIMATE |
| A RODENT & PEST CONTROL          | 0                      | 0      | 0                  | 0       | 5,000    | 0        | 5,000                 | 5,000    |
| B GUARD SERVICES                 | 6,000                  | 9,344  | 24,000             | 28,830  | 48,000   | 4,830    | 72,000                | 76,830   |
| E CLEAN-UP OF FIELD SITES        | 2,000                  | 2,500  | 8,000              | 5,720   | 16,000   | -2,280   | 24,000                | 21,720   |
| G SIGNS AND BARRICADES           | 0                      | 0      | 0                  | 0       | 10,000   | 0        | 10,000                | 10,000   |
| X CONSTRUCTION PHOTO             | 4,000                  | 4,346  | 16,000             | 19,346  | 32,000   | 3,346    | 48,000                | 51,346   |
| Y TESTING PROGRAM                | 52,692                 | 30,017 | 210,767            | 120,257 | 508,533  | -90,510  | 632,300               | 628,790  |
| S/T GEN. COND. ITEMS             | 64,692                 | 46,207 | 258,767            | 174,153 | 619,533  | -84,614  | 791,300               | 793,686  |
|                                  |                        |        |                    |         |          |          |                       | 2,386    |





# LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

## PDCD CM SERVICES - 6TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING OCT 27, 1989 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION

| RESPONSIBILITY<br>CD-DESCRIPTION | CURRENT PERIOD DOLLARS<br>BUDGET | ACTUAL    | VAR.    | CUMULATIVE DOLLARS<br>BUDGET | ACTUAL    | VARIANCE | ESTIMATE<br>TO COMPL | BUDGET     | AT COMPLETION DOLLARS<br>ESTIMATE | VARIANCE |
|----------------------------------|----------------------------------|-----------|---------|------------------------------|-----------|----------|----------------------|------------|-----------------------------------|----------|
| A PROJECT MANAGEMENT             | 80,378                           | 82,041    | 1,663   | 329,548                      | 330,298   | 750      | 652,073              | 968,491    | 982,371                           | 13,880   |
| C FAC. CONSTRUCTION              | 450,333                          | 441,580   | -8,753  | 1,896,547                    | 1,873,524 | -23,023  | 3,480,898            | 5,113,259  | 5,354,422                         | 241,163  |
| E SYSTEMWIDE CONST               | 78,840                           | 76,210    | -2,630  | 323,244                      | 291,060   | -32,184  | 846,277              | 1,147,194  | 1,137,337                         | -9,857   |
| F GENERAL SERVICES               | 70,514                           | 62,948    | -7,566  | 289,106                      | 271,029   | -18,077  | 430,101              | 772,363    | 701,130                           | -71,233  |
| K PROJECT CONTROLS               | 213,139                          | 165,745   | -47,394 | 873,871                      | 716,474   | -157,397 | 1,577,010            | 2,471,628  | 2,293,484                         | -178,144 |
| L PROCUREMENT                    | 16,118                           | 14,573    | -1,545  | 86,952                       | 59,093    | -27,859  | 122,763              | 208,485    | 181,856                           | -26,629  |
| M ENG. SVCS./SYST. INTEGR.       | 154,620                          | 253,360   | 98,740  | 610,920                      | 831,986   | 221,066  | 1,181,494            | 1,823,139  | 2,013,480                         | 190,341  |
| N COMMUNITY RELATIONS            | 13,770                           | 7,505     | -6,265  | 56,455                       | 39,104    | -17,351  | 84,161               | 140,616    | 123,265                           | -17,351  |
| P SAFETY                         | 16,150                           | 13,622    | -2,528  | 66,217                       | 56,419    | -9,798   | 126,942              | 193,159    | 183,361                           | -9,798   |
| Q QUALITY ASSURANCE              | 20,221                           | 19,493    | -728    | 101,238                      | 75,926    | -25,302  | 159,501              | 260,163    | 235,427                           | -24,736  |
| R PROJECT ADMIN.                 | 44,547                           | 42,577    | -1,970  | 182,644                      | 177,626   | -5,018   | 364,065              | 549,161    | 541,691                           | -7,470   |
| S EQUAL OPPORTUNITY              | 13,435                           | 6,457     | -6,978  | 55,084                       | 38,657    | -16,427  | 15,516               | 83,298     | 54,173                            | -29,125  |
| T LABOR RELATIONS                | 0                                | 0         | 0       | 0                            | 0         | 0        | 33,713               | 33,713     | 33,713                            | 0        |
| U LEGAL                          | 0                                | 0         | 0       | 24,000                       | 0         | -24,000  | 40,000               | 64,000     | 40,000                            | -24,000  |
| S/T LABOR-BRDN & OH              | 1,172,065                        | 1,186,111 | 14,046  | 4,895,816                    | 4,761,196 | -134,620 | 9,114,514            | 13,828,669 | 13,875,710                        | 47,041   |
| 1 FIELD OFFICE EXPENSES          | 55,300                           | 44,540    | -10,760 | 221,200                      | 179,882   | -41,318  | 465,400              | 663,600    | 645,282                           | -18,318  |
| 2 OFFICE EQUIPMENT               | 3,725                            | 573       | -3,152  | 14,900                       | 6,744     | -8,156   | 29,800               | 44,700     | 36,544                            | -8,156   |
| 3 TRAVEL & RELOCATION            | 18,142                           | 7,257     | -10,885 | 72,567                       | 33,663    | -38,904  | 165,133              | 217,700    | 198,796                           | -18,904  |
| 4 VEHICLES & MAINT.              | 4,900                            | 7,522     | 2,622   | 19,600                       | 18,259    | -1,341   | 63,200               | 82,800     | 81,459                            | -1,341   |
| 5 REPRODUCTION                   | 6,050                            | 4,624     | -1,426  | 24,200                       | 18,961    | -5,239   | 48,400               | 72,600     | 67,054                            | -5,546   |
| 7 TELEPHONE & TELEX              | 5,950                            | 5,627     | -323    | 23,800                       | 20,961    | -2,839   | 47,600               | 71,400     | 68,561                            | -2,839   |
| 8 COMPUTER OPERATION SUPPT.      | 2,292                            | 2,361     | 69      | 9,167                        | 10,396    | 1,229    | 18,333               | 27,500     | 28,729                            | 1,229    |
| 9 GROSS RECEIPT TAX              | 7,834                            | 6,951     | -883    | 31,334                       | 30,151    | -1,183   | 62,666               | 94,000     | 92,817                            | -1,183   |
| A FIELD EQUIPMENT                | 3,975                            | 7,086     | 3,111   | 15,900                       | 13,665    | -2,235   | 31,800               | 47,700     | 45,465                            | -2,235   |
| S/T ODC'S                        | 108,168                          | 85,541    | -22,627 | 432,668                      | 332,375   | -100,293 | 932,332              | 1,322,000  | 1,264,707                         | -57,293  |
| W PDCD FEE                       | 57,500                           | 57,500    | 0       | 230,000                      | 230,000   | 0        | 345,000              | 575,000    | 575,000                           | 0        |
| X S/C FEE                        | 32,084                           | 25,376    | -6,708  | 130,275                      | 107,428   | -22,847  | 248,570              | 355,998    | 355,998                           | 0        |
| S/T FEES                         | 89,584                           | 82,876    | -6,708  | 360,275                      | 337,428   | -22,847  | 593,570              | 930,998    | 930,998                           | 0        |
| S/T CM DIRECT SVCS               | 1,369,817                        | 1,355,528 | -14,289 | 5,688,759                    | 5,430,999 | -257,760 | 10,640,416           | 16,081,667 | 16,071,415                        | -10,252  |
| S/T GEN. COND. ITEMS             | 64,692                           | 46,207    | -18,485 | 258,767                      | 174,153   | -84,614  | 619,533              | 791,300    | 793,686                           | 2,386    |
| TOTAL CM SERVICES                | 1,434,509                        | 1,401,735 | -32,774 | 5,947,526                    | 5,605,152 | -342,374 | 11,259,949           | 16,872,967 | 16,865,101                        | -7,866   |

PERCENT OF BUDGET EXPENDED = 33%

NEGATIVE VARIANCE INDICATES UNDERRUN

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**SECTION VI**

**ADDITIONAL ACTIVITIES**

**PERFORMED IN OCTOBER**







# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

### VI. ADDITIONAL ACTIVITIES PERFORMED IN OCTOBER

The following activities performed by the CM functional organization are in addition to the activities presented in other sections of this report.

#### A. Administration And Accounting

- (1) Continued to assist the Resident Engineers in the supply of administrative material and the assignment/orientation of new field personnel at the field offices.
- (2) Continued processing of personnel (acquisition and termination).
- (3) Coordinated audit responses from Associate Subcontractors to RTD Audit Department.

#### B. Quality Assurance

- (1) Continued to review welding activities and conduct fabrication inspections as required to support facilities and system procurement contracts A130, A135, A141, A145, A165, and A175.

##### Site Inspection:

- o A130, A145 - Inspection of welds on starpacks, kneebrace supports, walers and struts during excavation.
- o A145 - Inspection of bulkhead strut welds for tunnel supports and rebar column fabrication.
- o A141 - Evaluation and inspection of welds during strut support modification.
- o A145, A165, A175 - Inspection of welds during installation of permanent structures.
- o A145 - Inspection of welds for deck beams for south blast relief shaft area and escalator entrance.

##### Shop Inspection:

- o Paramount Metals - Inspection of embedded supports for slurry walls, rails, escalator beam supports, tunnel rings, and heavy frames for permanent structures (A130, A141, A145, A165, A175).
- o Cowelco - Inspection of handrails, stairways and miscellaneous embedded frames for A135 Baggage Handling Facility.
- o Angeles Steel - Inspection and monitoring of stud welding subcontracted from Paramount Metals.
- o Scott Company - Inspection of Wet Standpipe and Hydraulic piping system spool pieces (A135, A145, A165).



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

- (2) Continued to monitor on-site testing and Smith-Emery test laboratory activities.
- (3) Witnessed system pressure tests for A141 Hydraulic Oil Lines.
- (4) Witnessed pressure test for A141 Wet Standpipe spool.
- (5) Witnessed system pressure test for A171 Fire Lanes.
- (6) Monitored Smith-Emery Batch Plant Inspection at Calmat and TMC.
- (7) Witnessed pressure test for A610/115 Fire Lines, Domestic Water and Natural Gas Lines.
- (8) Inspected welded joints on A145 Deluge Lines.
- (9) Monitored Smith-Emery testing of elastomeric pad samples for A171.
- (10) Participated in A112 contract close-out activities.
- (11) Participated in Safety Certification Review Team Audit of Contract A112.
- (12) Conducted QA review of approximately 142 contractor submittals for various contracts.
- (13) Issued report for audit of Flakt, Inc. and National Metals Inc. for Contracts A740 and A745.
- (14) Supported audit of PDCD/QA Program by Hill International for UMTA.
- (15) Monitored Smith-Emery concrete test reports.
- (16) Inspected installation and monitored testing of HDPE on Contract A135.

### C. Equal Opportunity Administration

- (1) Monitored Equal Opportunity reporting requirements (i.e. SSA&P Report, Monthly Employment Utilization Reports, Certified Payroll) for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A167, A171, A610/A115, A612, A615, A616, A620, A640, A710, A740, and A745.
- (2) Conducted project site visits/employee interviews at A141, A145, A146, A165, A171, and A175.
- (3) Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for Contracts A112, A130, A135, A141, A145, A165 and A167.

### D. Contracts and Procurement

- (1) Issued three Purchase Orders for five Personal Computers and related software upon District approval.
- (2) Issued Subcontract with E. D. Greenawalt for estimating services upon District approval.
- (3) Requested District approval to issue Amendment to consulting agreement with F. E. Endacott & Associates for funds increase to cover remaining AWP-6 work requirements.



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

### E. Community Relations

- (1) Coordinated community notifications for A130, A141, A145, A146, A165 and A175 tenants affected by lane restrictions and/or street closures.
- (2) Coordinated and resolved traffic mitigation concerns for tenants along Hill St. affected by A141, and A146 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 (under 7th St.) traffic plans.
- (3) Provided assistance to A130, A141, A145, A146 and A165 for problems caused by blocked access, noise, dust, lack of visibility, accidents, security and general construction activities.
- (4) Provided assistance to PDCD/RTD in responding to media requests and coordinating 10 site visits.
- (5) Processed 28 inquiries/complaints.
- (6) Provided assistance to RTD/LGCA in coordination/presentation of the October 25 Community Awareness Meeting for Union Station/Yards & Shops.
- (7) Provided assistance to 7th Street/Metro Center Station tenants regarding rodent control.
- (8) Coordinated and resolved traffic mitigation concerns for tenants adjacent to Lebanon Street affected by A631 traffic access plan.

### F. Safety and Security

- (1) Continued to monitor safety, health and security activities on all active construction sites.
- (2) Continued to monitor activities of the Security Guard Service and the Site Clean-up Service subcontractors.
- (3) Continued work on revisions/modifications to specifications on CSSM for Phase II.
- (4) Began video still safety site surveys with DIA'S Director of Safety.
- (5) Reviewed second submission of A631 candidates and approved a Safety Representative.

### G. Construction Operations

- (1) Continued construction management (CM) services for Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, and A732, A740, A745, A750 (4984, 4986, 4988) and A795; monitoring of Master Agreement Work and submittal reviews.
- (2) Continued coordination of traffic control plans and street closures with city agencies for A130, A141, A145, A146, and A165.





# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

- (3) Continued coordination of MOS-1 Inspection with LADOT.
- (4) Processed a total of 17 Traffic and Utilities related submittals.
- (5) Continued monitoring of ground water and construction water discharges at A141, A144, A145, A146; A165, A171 and A175.
- (6) Continued monitoring of Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
- (7) Prepared and submitted September Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (8) Prepared and submitted September LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (9) Prepared and submitted water quality reports for new dewatering flows from A130 and A135 to CRWQB.
- (10) Checked as-built escalator wellways in Home Savings (A167).
- (11) Continued checking contractor's control points and layout at various construction sites.
- (12) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171, and A175.
- (13) Continued location survey at shop and yards contracts.
- (14) Checked layout and excavation elevation for A135 station.
- (15) Continued walkway as-builts survey for AR and AL tunnels (A171).
- (16) Completed review of high utilities claims (A165).

### H. Engineering Services

- (1) Reviewed RTD consultant J.P. Gould's preliminary evaluation of the A141 tunnel hard rock claim.
- (2) Assembled A145 construction/instrumentation data and transmitted to MRTC and RTD consultant J. P. Gould.
- (3) Monitored two test case alternative methods of distressing struts at A141 Civic Center Station.
- (4) Transmitted A141 Contractor's excavation support design calculations to RTD consultant J. P. Gould for to be used in analyzing the Civic Center Station strut overload claim.
- (5) Completed and distributed draft report on A165 Design Verification Study Task B, for use in evaluating the A141 Civic Center Station strut overload claim.
- (6) Completed geologic observations in the A146 AR Tunnel.
- (7) Collected, tabulated and transmitted data to J. P. Gould on the A141 Station excavation history plotted against ground movements and strut load build-ups.
- (8) Processed 14 field inquiries with MRTC to obtain clarification of design requirements.
- (9) Responded to 160 requests for information or documentation clarification from various contractors.



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- (10) Completed final design and claims avoidance review of Contract A760 Signing and Edgelight Procurement.  
(11) Continued claims avoidance review of Contract A157 5th/Hill Station Stage II, final design.  
(12) Continued claims avoidance review of Contract A147 Civic Center Station Stage II, final design.  
(13) Completed comprehensive review of electrical embedments on Contract A145.  
(14) For Contract A112 - Approved 5 Contractor submittals for O & M Training Program, Car Hoist Supports, Water Sealer, Electrical Test Procedures, and Paving Joint Sealant.  
(15) Approved-as-Noted 3 Contractor submittals for O and M Manuals, Steel Doors, and Instrumentation Booklets.  
For Contract A130 - Approved 16 Contractor submittals for Monthly Narrative & Schedule Updates, Cathodic Protection, Underpinning Concrete Piles, Rebar Details, Traffic Control Plan, Mix Design, Welder Certification, Rebar Mill Certifications and Ground Rod Penetration of HDPE Membrane. Approved-as-noted 11 Contractor submittals for Car Wash System, Mech. Embeds, Lift Drawings, Electrical Embeds, Rebar Details, Welding Procedure and Certification, Wall Form Dwg. & Calcs., Metal Embeds, Tunnel and Excavation Equipment.  
Rejected 13 Contractor submittals for Monthly Schedule Status Reports, Revised Part II Schedule, Car Washing Systems, Plumbing Data and Typical Tunnel Installation.  
(16) For Contract A135 - Approved 3 Contractor submittals for Rebar Mill Certificates.  
Approved-as-Noted 22 Contractor submittals for Precast Concrete Walkway, Metal Embeds, Lift Drawings Hydraulic Lines, Refrigeration Piping, Wall Form Dwg. & Calcs., Shoring Layout & Calcs., Passage Walkway Wood Canopy, Rebar Details, Mill Test Report and Mechanical Sleeve Coupler.  
Rejected 7 Contractor submittals for Mechanical Embeds, Lift Dwg., Wall at Passenger Tunnel and Shoring Layout.  
Reviewed for Record Only 1 Contractor submittal for Installation of Inclinometer.  
(17) For Contract A135BH (Baggage Handling) - Approved 3 Contractor submittals for Basement Piping, 2" Fireline and 750 KVA Transformer.  
(18) For Contract A141 - Approved 6 Contractor submittals for Pipe Sleeves, Support & Guides, Concrete Lift Dwg., Controlling Traffic and Mechanical Qualification Test & Welding Procedures.  
Approved-as-Noted 17 Contractor submittals for Shoring for Ancillary Level, Concrete Lift Dwg., Reinforcement, Tunnel & Shaft Groundwater Procedure Plan, Mix Design, Reinforcement Mill Test Report, Catalog Cuts and Magnetometer Probe Hole.  
Rejected 3 Contractor submittals for Excavation Support System Bracing Removals, Welding Procedures/Certifications and Lift Dwg.  
Reviewed for Record Only 1 Contractor submittal for Monthly Progress Schedule Update.  
(19) For Contract A145 - Approved 12 Contractor submittals for Welder Certification and Qualification Tests,



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Concrete Inserts, Construction Joints, Lift Dwg's., Rebar Dwg's., and Electrical Junction Box.  
Approved-as-Noted 36 Contractor submittals for Monthly Schedule Update, Lift Dwg's., So. Entrance Bracing, Decking over So. Blast Relief Shaft, Water Main Supports, Rebar Dwg's., Electrical Junction Boxes, Conduit Tagging Method and Non-Skid Coating for Deck Mats.  
Rejected 5 Contractor submittals for Stair Nosings, Restrutting Column Lines, Welder's Qualifications and Monthly Reports.

Reviewed for Record Only 5 Contractor submittals for Monthly Progress Status Reports and Revised Schedule.

(20) For Contract A146 - Approved-as-noted 4 Contractor submittals for Traffic Plan, Catalog Data, Sump Pump Control Data and Monthly Schedule Update and Narrative.

(21) For Contract A165 - Approved 29 Contractor submittals for Shoring Traveler System, Re-shoring Details, Rebar Dwg's., Lift Dwg's. for Base Slabs, Walls, Platforms, Roof Slabs, and Columns.  
Approved-as-Noted 37 Contractor submittals for Calculations, Lift Drawings for Base Slabs, Walls and roof Slabs, and Rebar drawings for Slabs, Walls, Platform, Mezzanine and Exhaust Duct.  
Rejected 4 Contractor submittals for Light Fixtures, Wall Lift Drawing and Rebar.  
Review for Record Only 1 Contractor submittal for Roosevelt Building Footing Lift Drawing.

(22) For Contract A167 - Approved 6 Contractor submittals for Hardware Schedule, Engineered Glass Walls, Base, Waterproofing Membrane, Dry Set Mortar, Grout, Quarry Tile, Custom Concrete & Latex Mortar Admix and Type RHH/RHW Wire, Cable & Insulation.

Approved-as-Noted 7 Contractor submittals for Monthly Progress Status Report, NAS Part II Narrative, Precast Moulding, Concrete Mix Design, Hilti Anchoring System, Erection Dwg's., Welded Bracket for Standpipe and HVAC @ Home Savings.

Rejected 8 Contractor submittals for Monthly Schedule Update, Ven-Chem Certification, Granite for Home Savings, Italian Marble Tile, Rolling Grilles & Fire Doors, Hose Rack Angle Valves, HVAC Equipment, and Cable Tray Support Layout.

(23) For Contract A171 - Approved 2 Contractor submittals for Elasto-Pad and Miscellaneous Metal.

Approved-as-Noted 2 Contractor submittals for Part II Schedule Update and Sump Discharge Piping.

(24) For Contract A175 - Approved 6 Contractor submittals for Recalculations for Formed Walls, Mix Design, Rebar Drawings, Outlet Boxes and Invert Slab.

Approved-as-Noted 7 Contractor submittals for Pedestrian Crosswalk, Resume and Qualifications, Rebar Dwg's., Cast-In-Place Floating Slab Pans, Walls and Mezzanine Slab, Calcs. for Shoring & Soffit Forms and High Wall Forms.

Rejected 5 Contractor submittals for Monthly Progress Status Report Crosswalk at Westlake, Data Type H Sleeves for Wet Standpipe & Sprinkler Lines, Roofing Shoring, and Detour-Westlake Ave.





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- (25) For Contract A610 - Approved 13 Contractor submittals for CWR Destressing Procedure; YD. Rail Flow Diagram & Mechanical Vibrators, Plumbing Fixtures, Stock Rails #10 Turnouts, Special Plate Details, Stock Rails 21'-0" Switch, Manganese Steel Center Xing, Manganese Steel End Xing, and Rust Proof Compound L.  
Approved-as-Noted 2 Contractor submittals for Valves, Ceiling Plates & Pipe Insulation and Closure & Buffer Rails.  
Rejected 10 Contractor's submittals for Cathodic Protection Test Station, Gas Fired Domestic Water Heaters, Ventilation Fans, Gas Pressure Regulators, Fire Dept. Valves & Hose Rack Assembly, Roof Drains & Fl./Ceiling Plates, Fl. Drains & Cleanouts, #10 turnout, Details for Electrified T.O., Rail Clamp Assembly.
- (26) For Contract A612 - Approved 1 Contractor submittals for Smoke Emission Optical Density.
- (27) For Contract A615 - Approved 1 Contractor submittal for Qualification Test Results.
- (28) For Contract A616 - Approved 3 Contractor submittals for Production Fastener Test Results.  
Approved-as-Noted 1 Contractor submittal for Production Elastomer Test Results.
- (29) For Contract A620 - Approved 15 Contractor submittals for Maintainability Analysis, Maintainability Demonstration Test, Civic Center FDR Corrections, 5th/Hill FDR Corrections, 7th/flower FDR Corrections, Junction Box Installation, Impedance Bond Installation, Wayside Signal Installation, Switch Machine Layout, Exterior Cable, Construction Safety and Security Manual, Factory Inspection Test Procedure, Approved-as-Noted 3 Contractor submittals for Yard Track and Cable Plans, QA Program and Train Stop Installation.  
Rejected 1 Contractor submittal for ATC Vehicle Equipment Qualification Test.
- (30) For Contract A630 - Approved 1 Contractor submittal for Bus Duct.  
Approved-as-Noted 1 Contractor submittal for Auxiliary Power Transformer.
- (31) For Contract A631 - Approved 2 Contractor submittals for Electrical Insulated Flooring and Paint Products.
- (32) Approved-as-Noted 1 Contractor submittal for DC Control Power Supply.  
For Contract A640 - Approved 1 Contractor submittal for CTS Telephone Subsystem Diagnostic Test Equipment.
- (33) Approved-as-Noted 3 Contractor submittals for Radio Frequency Power Documentation, Telephone & Cable Circuit Board, and Telephone Subsystem Special Tools.  
For Contract A710 - Approved 1 Contractor submittal for Monthly Progress Status Report and Schedule Update.
- (34) For Contract A740 - Approved 2 Contractor submittals for Test Report EF/SVF Impeller Spin and Monthly Progress Report and Schedule Update.

(35) For Contract A745 - Approved 1 Contractor submittal for Monthly Progress Report and Schedule Update.

## I. PROJECT CONTROLS

- (1) Processed Change Requests: A112-CR-142, A112-CR-144, A141-CR-126, A141-CR-127, A141-CR-128, A141-CR-129, A141-CR-132, A145-CR-153, A145-CR-155, A146-CR-040, A165-CR-093, A165-CR-097, A167-CR-011, A171-CR-030, A175-CR-060, A175-CR-061, A175-CR-062, A175-CR-075, A175-CR-076, A175-CR-077, A175-CR-078, A175-CR-079, A610-CR-081, A610-CR-083, A610-CR-084, A610-CR-085, A620-CR-029, and A620-CR-030.
- (2) Processed Change Notices: A130-CN-021, A141-CN-075, A146-CN-013, A175-CN-035A, and A610-CN-037.
- (3) Processed Change Orders: A112-CO-040, A112-CO-060, A130-CO-021, A135-CO-0022G, A135-CO-0022H, A135-CO-0022I, A135-CO-0022J, A135-CO-0022K, A135-CO-0022M, A135-CO-031, A145-CO-031A, A145-CO-067A, A145-CO-095, A145-CO-098, A146-CO-021, A146-CO-021Q, A146-CO-021S, A146-CO-021W, A146-CO-021X, A146-CO-021Y, A146-CO-021Z, A146-CO-035A, A165-CO-052B, A165-CO-053, A165-CO-054, A167-CO-002, A167-CO-002A, A167-CO-003, A167-CO-004, A167-CO-005, A175-CO-036, A175-CO-037, A175-CO-045, A175-CO-046, A610-CO-011, A610-CO-056PTI, A610-CO-061, A610-CO-064, A615-CO-002, A620-CO-029, A620-CO-030, A640-CO-005A, A640-CO-007, A640-CO-009, and A755-CO-003.
- (4) Processed through TRACS, 36 executed Change Orders: A130-CO-004B, A130-CO-028, A130-CO-030, A135-CO-031, A146-CO-021N, A146-CO-021Q, A146-CO-021S, A146-CO-030, A165-CO-048, A165-CO-049, A165-CO-050, A165-CO-051, A165-CO-052, A165-CO-052A, A165-CO-052B, A165-CO-053, A610-CO-060, A710-CO-004, A710-CO-007, A112-CO-059, A112-CO-060, A112-CO-062, A112-CO-059A, A135-CO-002ZG, A135-CO-002ZH, A135-CO-002ZJ, A135-CO-002ZK, A141-CO-059, A146-CO-021T, A146-CO-021U, A146-CO-021V, A146-CO-021W, A146-CO-021X, A146-CO-021Y, A146-CO-021Z, and A175-CO-046.
- (5) Processed Potential Claims: A112-PC-049, A112-PC-070, A130-PC-016, and A610-PC-037.
- (6) Processed Change - Technical Evaluations: A145-CR-142, A145-CR-150, A145-CR-152, and A175-CR-060.
- (7) Processed Force Account Change Packages: A146-CO-021B, A146-CO-021C, A146-CO-021CL, A146-CO-021E, and A146-CO-026.
- (8) Processed Monthly Payment Estimates for 20 Estimates For 20 Contracts: A112, A130, A135, A141, A144, A145, A146, A165, A167, A171, A175, A610/115, A612, A616, A620, A640, A710, A740, A745, and A755.
- (9) Completed a close-out reconciliation on 4 Force Account Change Orders: A146-CO-021B, A146-CO-021C, A146-CO-026, and A146-CO-021E.
- (10) Reviewed Contractor Monthly Progress Reports.
- (11) Prepared Scheduling inputs to RTD Monthly Status Report.





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- (12) Prepared Quarterly Update for the Level III Schedule.
- (13) Approved as noted A167 Part II Schedule submittal.
- (14) Review in progress for A167 Part II Schedule.
- (15) Review in progress for Part II Schedule revisions from A145 and A165.
- (16) A175 Part II Revised Schedule under review.
- (17) Completed review of A130 Part II Schedule.
- (18) A-130-CR-026A Reviewed Contractor's proposal and prepared estimate comparison.
- (19) A-135-CR-004, CR-032 Continued to review changes and proposals related to LAUPT Baggage Handling Facilities and Police Room.
- (20) A-135-CR-047 Reviewed Contractor's proposal, prepared comparison, negotiated settlement for revised work, elevator hydraulic lines.
- (21) A-135-CR-059 Completed estimate for enlarged wall opening, door 7B.
- (22) A-135-CR-051, A141-CR-120, A145-CR-147, A165-CR-083 and A175-CR-051 Completed revised estimates for emergency telephone blockouts.
- (23) A-136 Began review of Stage II Contract documents and MRTC estimate for support in preparation of contract schedule.
- (24) A-141-CR-092 Completed estimate on relocated Emergency Exit Stair No. 21.
- (25) A-141-CR-095 Completed review and estimate on increased escalator wellway openings.
- (26) A-141-CR-097 Reviewed contractors proposal for additional strain gages and monitoring.
- (27) A-141-CR-100 Completed estimate for revisions to Elevator equipment room.
- (28) A-141-CR-104 Began estimate on revisions to water service and corrosion.
- (29) A-141-CR-011 Access delay to Union Station, reviewed Contractor (subcontractors) proposals, prepared estimates and evaluations, participated in negotiations.
- (30) A-145-CR-124 Reviewed contractors proposal for additional costs to negotiated change.
- (31) A-145-CR-132, 133 Prepared preliminary estimate for plumbing and piping changes not included with hydraulic changes.
- (32) A-145-CR-148 Prepared estimate for changes due to added drawing E-145.
- (33) A-146-CR-038 Reviewed scope of work in preparation for walkway and wet standpipe change estimate.
- (34) A-165-CR-075 Clarified scope of work and material takeoff for wet standpipe and sprinkler system change.





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- (35) A-165 Reviewed decking quantities, prepare comparison and met with contractor.  
(36) A-167-CR-002 Reviewed contractor's proposal for change to structural openings, BRS wall.  
(37) A-175-CR-035 Reviewed contractor's revised proposal for incoming Electrical Service Room.  
(38) A-175-CR-047 Prepared estimate for additional embedded drainlines in crossover.  
(39) A-175-CR-053 Prepared estimate for revisions to plumbing and fire protection systems and structural openings.  
(40) A-175-CR-075, CR-076, CR-077 Prepared ROM estimate for miscellaneous structural changes.  
(41) A-620-CR-030 Prepared ROM estimate for access delay to tunnels.  
(42) A-732 Began preparation of ROM estimate for installation of wheel press and wheel boring machine.  
(43) Systemwide Prepared estimate for tunnel bulkheads at Civic Center and 7th Flower Stations.  
(44) General Reviewed contractors proposed Force Account labor rate submittals.

### J. CM Meetings in October 1989

| Date      | Agency/Company                                        | General Subject                                                                |
|-----------|-------------------------------------------------------|--------------------------------------------------------------------------------|
| October 2 | TSG/Wagner                                            | A141 Strut Removal                                                             |
| October 2 | MRTC                                                  | A141 Strut Removal                                                             |
| October 2 | RTD/S&SA                                              | DOT/IG Audit Plan                                                              |
| October 4 | RTD/Southern California Gas                           | Briefing tour of A165                                                          |
| October 4 | RTD/A112/PE                                           | Close out Planning                                                             |
| October 4 | RTD                                                   | A141-CR-011 Access delay review, subcontractor proposals and auditor report    |
| October 4 | MRTC, BAH, LAPD, RTD Police, LACOSD, RTD, Coroner.    | Project Security and Operational Security Requirements.                        |
| October 4 | MRTC, BAH, LAFD, LACOFD, RTD                          | System Safety and Operational Requirements                                     |
| October 5 | RTD/MRTC                                              | A141 Strut Removal                                                             |
| October 5 | MRTC                                                  | A145 Instrumentation Data                                                      |
| October 5 | LAUPT                                                 | Status summary of hazardous waste encountered on Metro Red Line Sites.         |
| October 5 | Contractos, LADWP, Ins. Cos., Ins. Brokers, CM's AGCC | Pending Legislation on Safety, Health and Environmental Issues General Safety. |
| October 5 | PMOC/Hill International                               | PMOC Audit of PDCD                                                             |



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|            |                                |                                                                                                                                                       |
|------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| October 5  | RTD/TSG & Subs                 | A141-CR-011 Access delay reviewed GKN, Valverde, and Felix proposals. Met with RPS (resteel) and Comstock (electrical) for review, to be resubmitted. |
| October 5  | RTD/TSP                        | A135-CR-047 Hydraulic lines. Negotiated agreed price for revised work.                                                                                |
| October 6  | TSG                            | A141 Strut Removal                                                                                                                                    |
| October 6  | MRTC                           | A130 Shield Design                                                                                                                                    |
| October 6  | RTDD/IG                        | A141-CR-011 Access delay. Reviewed auditors report on Geofon proposal.                                                                                |
| October 9  | Roosevelt Building             | Security, Construction Activities, Insurance                                                                                                          |
| October 9  | RTD/A112/PE                    | Safety Cert. Review ✓                                                                                                                                 |
| October 11 | Substructure Committee         | Monthly Utilities Meeting                                                                                                                             |
| October 11 | RTD                            | A141-CR-011 Access delay. Reviewed final auditor report on Geofon, RTD position.                                                                      |
| October 11 | LADOT, Granite                 | Wilshire Boulevard detour                                                                                                                             |
| October 11 | RTD/LGCA                       | Roosevelt Building                                                                                                                                    |
| October 12 | Atkinson                       | A145 Strut Removal Sequence                                                                                                                           |
| October 12 | G. List, West Germany Engineer | Tour of A141                                                                                                                                          |
| October 12 | A640/RE/Bechtel                | A640 Audits                                                                                                                                           |
| October 18 | MRTC                           | A141 Strut Removal Alternatives                                                                                                                       |
| October 18 | MRTC/RTD                       | A136 Design/Review                                                                                                                                    |
| October 18 | A740/745/RE/Flakt              | A740/745 QA Program                                                                                                                                   |
| October 18 | RTD/Granite                    | A165-CR-070 Negotiations for increased elevator hoistway door rough opening.                                                                          |
| October 19 | S. Diaz, UMTA                  | Tour of A165                                                                                                                                          |
| October 19 | RTD/Granite                    | A165 Decking quantities. Reviewed detailed area by area takeoff and comparison.                                                                       |
| October 20 | MRTC                           | A145 Rebar Alternative                                                                                                                                |
| October 20 | RTD/MRTC                       | Electrical Junction Boxes                                                                                                                             |



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|            |                                   |                                                                                                            |
|------------|-----------------------------------|------------------------------------------------------------------------------------------------------------|
| October 20 | MRTC/RTD                          | A760 Design Review                                                                                         |
| October 20 | LA City<br>Sanitation<br>Division | Contamination delineation around the Union<br>Station area.                                                |
| October 23 | MRTC                              | A141 Magnetometer Probe Holes                                                                              |
| October 23 | PMOC/Hill International           | PMOC Audit of PDCD                                                                                         |
| October 24 | RTD/TSG                           | A141-CR-011 Access delay. Offer made to<br>RPS, Geofon and Comstock to resubmit.                           |
| October 25 | Geofon, RPS & Comstock<br>RTD     | A141-CR-011 Access delay. Review status<br>subcontractor negotiations.                                     |
| October 25 | MRTC                              | A141 Strut Removal Test Program                                                                            |
| October 25 | RTD/Public                        | Community Awareness Meeting for Yards &<br>Shops and Union Station tenants                                 |
| October 26 | RTD/TSG, Comstock & Felix         | A141-CR-011 Access delay. Comstock to<br>review materials escalation etc. Review<br>TSG, G & A and profit. |
| October 27 | Shank-Ohbayashi                   | A146 Geotechnical Instrumentation                                                                          |



**SECTION VII**

**SUMMARY OF ACTIVITIES**

**PLANNED FOR NOVEMBER**





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**CONTRACT PERFORMANCE**  
**REPORT**

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**VII. SUMMARY OF ACTIVITIES PLANNED FOR NOVEMBER 1989**

**A. Administration and Accounting**

- (1) Continue to provide priority administrative and accounting assistance to construction field operations.
- (2) Continue the recruitment and termination of personnel as required.
- (3) Continue to coordinate RTD's auditing process with Associate Subcontractors.

**B. Quality Assurance**

- (1) Continue to review welding activities and conduct fabrication inspections as required in support of facilities and systems contracts.
- (2) Continue to monitor on-site testing activities and Smith-Emery laboratory activities.
- (3) Continue to support Factory Acceptance Testing activities in support of systems contracts.
- (4) Continue review of Project Quality Manuals.
- (5) Continue review of contractor submittals.
- (6) Continue audits of systems contracts.
- (7) Continue participation in contract closeout activities for Contract A112.
- (8) Begin preparations for close-out activities for Contract A171.
- (9) Witness off-site pressure testing for Wet Standpipe System components for Contract A146.

**C. Equal Opportunity Administration**

- (1) Conduct contract compliance site visits, employee interviews and monitor reporting requirements for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A167, A171, A175, A610/115, A612, A615, A616, A620, A640, A710, A740 and A745.
- (2) Evaluate Contractor E0 performance with respect to approved specifications and apply penalty assessments as required.

**D. Contracts and Procurements**

- (1) Issue Requests for Quotations for estimated annual requirements for office supplies and paper products.





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- (2) Upon receipt of District approval, issue Amendment to Consulting Agreement with F. E. Endacott & Associates for an increase in AWP-6 funding.

### E. Community Relations

- (1) Continue tenant notifications on traffic access issues for A141, A145, A146, A165 and A175.
- (2) Continue expanded communication activities with A130, A145, A146, A165 and A175 tenants regarding ongoing and pending construction activities.
- (3) Assist RTD/Local Government and Community Affairs in planning and executing community outreach to Building Managers in the downtown area, including extending promotional activities for the Project Streetwise Hotline and the Information Centers.
- (4) Continue implementing CR Work Plan; conduct community presentations; the dissemination of construction information; and responding to complaints and inquiries.
- (5) Assist RTD/LGCA in coordinating noon hour construction briefings for the community.
- (6) Coordinate traffic access plans for the Holiday Season with LADOT and the Traffic Management Department.
- (7) Update CR tenant mailing list, emergency contact information and CR merchant files.
- (8) Continue to assist PDCD/RTD with site visits and media requests.

### F. Safety and Security

- (1) Performed daily site safety, health and security surveillance and prepared written reports for the A112, A130, A135, A141, A145, A146, A165, A167, A175 and A610/A115 construction contracts.
- (2) Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service subcontractors.
- (3) Revise and Distribute the Emergency Response Plan.
- (4) Continue video still safety surveys with DIA Director of Safety.

### G. Construction Operations

- (1) Continue construction management (CM) services at Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750 (4984, 4986, 4988) and A795; monitoring of Master Agreement work and submittal reviews.



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- (2) Continue coordination with governmental agencies and MOS-1 inspection with LADOT.
- (3) Continue to process submittals and Master Agreement invoices on as-needed basis.
- (4) Continue monitoring of groundwater and construction water discharges at A130, A135, A141, A144, A145, A146, A165, A171 and A175.
- (5) Continue monitoring Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
- (6) Prepare and submit October Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (7) Prepare and submit October Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (8) Continue to monitor instrumentation, building and ground settlement marks, and various contracts.
- (9) Continue to check Contractor's control points and layout.
- (10) Continue to perform survey tasks as requested by RES.
- (11) Continue to perform as-built survey of tunnels for Contracts A141 and A146.
- (12) Continue location surveys in shop and yards contracts.
- (13) Continue to check slab pours for Contracts A141, A145, A165 and A175.
- (14) Continue control survey through AR and AL's Tunnels (A171).

### H. Engineering Services

- (1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
- (2) Update report on A145 geology and instrumentation for the A141 Design Criteria Verification Study, Task B.
- (3) Review RTD Consultant, J. P. Gould's preliminary report on A141 Station strut overload claim.
- (4) Continue to process Contractor's submittals for Contracts A112, A130, A135, A135BH, A141, A145, A146, A165, A167, A171, A175, A610/A115, A612 A615, A616, A620, A630, A631, A640, A710, A732, A740, A745, A750, and A795.
- (5) Continue production of A161 as-built drawings.
- \* (6) Complete claims avoidance reviews for Contract A147, Civic Center Station, Stage II and Contract A157, 5th/Hill Station Stage II.

\* See Page 42.



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

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### I. Project Controls

- (1) Process Monthly Payment Estimates for all active contracts.
- (2) Process through TRACS all the executed Change Orders.
- (3) Continue close-out reconciliations for Force Account Change Orders.
- (4) Review Contractor Monthly Progress Reports.
- (5) Prepare Scheduling inputs to RTD Monthly Progress Report.
- (6) Complete reviews of Part II Schedule revisions for A165 and A145.
- (7) Review initial A631 Part II Schedule Submittal.
- (8) Complete review of Part II A167 Schedule.





# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

### DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS 10-28-89 TO 11-24-89

| Contract # | Description                        | Pkg<br>Type | Review<br>Code | Schedule<br>Receipt | Received | Schedule<br>Complete | Actual<br>Complete | SC | Remarks                             |
|------------|------------------------------------|-------------|----------------|---------------------|----------|----------------------|--------------------|----|-------------------------------------|
| A-147      | CIVIC CENTER STATION<br>(STAGE II) | DWGS        | CAR            | 08-16-89            | 08-17-89 | 11-10-89             |                    |    | *RESCHEDULED TO 11-10-89 BY<br>PDCD |
| A-147      | CIVIC CENTER STATION<br>(STAGE II) | SPEC        | CAR            | 08-16-89            | 08-30-89 | 11-10-89             |                    |    | *RESCHEDULED TO 11-10-89 BY<br>PDCD |
| **         |                                    |             |                |                     |          |                      |                    |    |                                     |
| A-157      | STH/HILL STATION (STAGE<br>II)     | DWGS        | CAR            | 08-14-89            | 08-16-89 | 11-03-89             |                    |    | *RESCHEDULED TO 11-3-89 BY<br>PDCD  |
| A-157      | STH/HILL STATION (STAGE<br>II)     | SPEC        | CAR            | 08-14-89            | 08-22-89 | 11-03-89             |                    |    | *RESCHEDULED TO 11-3-89 BY<br>PDCD  |
| **         |                                    |             |                |                     |          |                      |                    |    |                                     |

4 records listed. 4 values listed.

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%  
PF90 - Prefinal 90% FSI00 - Final submittal 100% DC100 - Final design complete 100%  
CAR- Claims Avoidance Review CE - Check Estimate

NOTE : Based on 10-3-89, MRTC Design Review Schedule

Parsons-Dillingham-De Leuw, Cather

1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 26

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**SECTION VIII**

**SUBCONTRACTOR/CONSULTANT**

**STATUS**

**MTA LIBRARY**







# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

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### VIII. SUBCONTRACTOR/CONSULTANT STATUS

The following 6th AWP Subcontract Status Report provides a current status of subcontracts awarded to the twelve associate and four consultant subcontractors. The Report shows major milestones for each subcontractor action from receipt of the requisition, execution of the document and includes an abbreviated description of the subcontract amendment issued.

### SIXTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT

OCTOBER 27, 1989

| SUBCONTRACT<br>NUMBER | SUBCONTRACTOR                           | REQUISITION | REQ FOR<br>PROPOSAL | NEGOTIATION<br>COMPLETE | JV<br>APPROVAL | DATE TO<br>SC | RETURNED<br>FROM SC | CONSENT<br>REQUESTED | CONSENT<br>RECEIVED | NTE<br>AMOUNT | DATE<br>EXECUTED | REMARKS   |
|-----------------------|-----------------------------------------|-------------|---------------------|-------------------------|----------------|---------------|---------------------|----------------------|---------------------|---------------|------------------|-----------|
| 1-SC-3369-1           | BETTER PERSONNEL<br>EMPLOYMENT SERVICES | 08/07/89    | 04/12/89            | 06/13/89                | 07/20/89       | 06/16/89      | 06/21/89            | 06/27/89             | 07/27/89            | \$415,724     | 07/27/89         | SIXTH AWP |
| 2-SC-3369-1           | CONSTRUCTION CONTROL<br>SERVICES CORP.  | 08/07/89    | 04/12/89            | 06/14/89                | 07/20/89       | 06/22/89      | 06/27/89            | 06/28/89             | 07/27/89            | \$1,569,347   | 07/27/89         | SIXTH AWP |
| 3-SC-3369-1           | DAMES & MOORE                           | 08/07/89    | 04/12/89            | 06/12/89                | 07/20/89       | 06/22/89      | 06/26/89            | 06/26/89             | 07/27/89            | \$138,215     | 07/27/89         | SIXTH AWP |
| 4-SC-3369-1           | ENGINEERING-SCIENCE                     | 08/07/89    | 04/12/89            | 06/12/89                | 07/20/89       | 06/22/89      | 06/27/89            | 06/28/89             | 07/27/89            | \$214,364     | 07/27/89         | SIXTH AWP |
| 6-SC-3369-1           | JACOBS ASSOCIATES                       | 08/07/89    | 04/12/89            | 06/09/89                | 07/20/89       | 06/23/89      | 06/27/89            | 06/28/89             | 07/27/89            | \$856,565     | 07/27/89         | SIXTH AWP |
| 7-SC-3369-1           | JENKINS, GALES &<br>MARTINEZ, INC.      | 08/07/89    | 04/12/89            | 06/12/89                | 07/20/89       | 06/26/89      | 06/26/89            | 06/26/89             | 07/27/89            | \$656,763     | 07/27/89         | SIXTH AWP |
| 8-SC-3369-1           | MARTIN & HUANG<br>INTERNATIONAL         | 08/07/89    | 04/12/89            | 06/30/89                | 07/20/89       | 06/30/89      | 07/06/89            | 07/10/89             | 07/27/89            | \$388,110     | 07/27/89         | SIXTH AWP |

Parsons-Dillingham-De Leuw, Cather



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

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### SIXTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Cont'd)

OCTOBER 27, 1989

| SUBCONTRACT<br>NUMBER | SUBCONTRACTOR                                                  | REQUI-<br>SITION | REQ FOR<br>PROPOSAL | NEGOTIATION<br>COMPLETE | JV<br>APPROVAL | DATE TO<br>SC | RETURNED<br>FROM SC | CONSENT<br>REQUESTED | CONSENT<br>RECEIVED | NTF<br>AMOUNT | DATE<br>EXECUTED | REMARKS        |
|-----------------------|----------------------------------------------------------------|------------------|---------------------|-------------------------|----------------|---------------|---------------------|----------------------|---------------------|---------------|------------------|----------------|
| 9-SC-3369-1           | NORTH PACIFIC<br>CONSTRUCTION MANAGEMENT                       |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 14                                                  | 08/07/89         | 04/12/89            | 06/13/89                | 07/20/89       | 06/23/89      | 06/27/89            | 06/28/89             | 07/27/89            | \$248,172     | 07/27/89         | SIXTH AMP      |
| 10-SC-3369-1          | OCHOA & SILLAS                                                 |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 8                                                   | 08/07/89         | N/A                 | N/A                     | N/A            | 06/23/89      | 06/23/89            | 06/27/89             | 09/06/89            | \$64,000      | 09/06/89         | SIXTH AMP      |
| 11-SC-3369-1          | RANDOLPH & TATE<br>ASSOCIATES                                  |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 8                                                   | 08/07/89         | 04/12/89            | 06/15/89                | N/A            | 06/30/89      | 07/24/89            | 07/24/89             | 08/04/89            | \$20,000      | 08/08/89         | SIXTH AMP      |
| 15-SC-3369-1          | MUESER RUTLEDGE<br>CONSULTING ENGINEERS<br>(JAMES GOULD, Ph.D) |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 7                                                   | 08/07/89         | N/A                 | 07/14/89                | N/A            | 07/17/89      | 07/28/89            | 07/28/89             | 09/18/89            | \$10,000      | 09/20/89         | SIXTH AMP      |
| 18-SC-3369-1          | GEO GRAY/<br>PHOTOGRAPHY                                       |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 5                                                   | 09/08/89         | N/A                 | 06/21/89                | N/A            | 08/31/89      | 09/06/89            | 07/20/89             | 09/06/89            | \$48,000      | 09/06/89         | SIXTH AMP      |
| 21-SC-3369-1          | SMITH EMERY CO.                                                |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 6                                                   | 09/08/89         | N/A                 | N/A                     | 07/20/89       | 08/31/89      | 09/22/89            | 07/19/89             | 09/22/89            | \$632,300     | 09/22/89         | SIXTH AMP      |
| 22-SC-3369-1          | COLEMAN SECURITY<br>SERVICES INC.                              |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 4                                                   | 07/12/89         | N/A                 | 07/14/89                | N/A            | 08/08/89      | 08/31/89            | 07/14/89             | 08/04/89            | \$72,000      | 08/31/89         | SIXTH AMP      |
|                       | AMEND. NO. 5                                                   | 08/25/89         | N/A                 | 09/13/89                | N/A            | 09/22/89      | 09/27/89            | N/A                  | N/A                 | \$76,000      | 09/27/89         | ADDED SERVICES |
| 29-SC-3369-1          | SUBWAY TERMINAL BLDG<br>(A145/146 SITE OFFICE LEASE)           |                  |                     |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 2                                                   | N/A              | N/A                 | N/A                     | N/A            | 06/30/89      | 06/30/89            | 05/25/89             | 05/30/89            | \$58,000      | 06/30/89         | 1 YR EXTEN     |





LOS ANGELES METRO RED LINE  
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SIXTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Cont'd)

OCTOBER 27, 1989

| SUBCONTRACT<br>NUMBER | SUBCONTRACTOR                                         | REQ'D<br>SITING | FOR<br>PROPOSAL | NEGOTIATION<br>COMPLETE | JV<br>APPROVAL | DATE TO<br>SC | RETURNED<br>FROM SC | CONSENT<br>REQUESTED | CONSENT<br>RECEIVED | NTE<br>AMOUNT | DATE<br>EXECUTED | REMARKS        |
|-----------------------|-------------------------------------------------------|-----------------|-----------------|-------------------------|----------------|---------------|---------------------|----------------------|---------------------|---------------|------------------|----------------|
| 33-SC-3369-1          | MARY & SON MAINTENANCE<br>(SITE CLEAN-UP)             |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 1                                          | 09/08/89        | N/A             | N/A                     | N/A            | 08/08/89      | 08/18/89            | 07/14/89             | 08/04/89            | \$24,000      | 08/18/89         | SIXTH AWP      |
| 37-SC-3369-1          | KAL KRISHNAN                                          |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 2                                          | 08/07/89        | N/A             | N/A                     | N/A            | 07/14/89      | 07/19/89            | 07/19/89             | 08/04/89            | \$93,279      | 08/08/89         | SIXTH AWP      |
| 39-SC-3369-1          | D. LEON CONSULTING<br>ENGINEERS CO.                   |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 1                                          | 08/07/89        | N/A             | N/A                     | 07/20/89       | 07/20/89      | 07/20/89            | 07/21/89             | 09/06/89            | \$170,554     | 06/09/89         | SIXTH AWP      |
| 40-SC-3369-1          | TRANSMETRICS                                          |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 1                                          | 08/07/89        | N/A             | N/A                     | N/A            | 07/25/89      | 07/25/89            | 07/27/89             | 09/06/89            | \$74,591      | 06/09/89         | SIXTH AWP      |
| 41-SC-3369-1          | W. B. EVANS & ASSOCIATES<br>(CONSULTING AGREEMENT)    |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 1                                          | 06/27/89        | N/A             | N/A                     | N/A            | 09/07/89      | 09/14/89            | 06/27/89             | 09/06/89            | \$13,500      | 08/22/89         |                |
| 42-SC-6669-1          | MANPOWER                                              |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 1                                          | 08/21/89        | N/A             | 08/24/89                | N/A            | 09/07/89      | 09/14/89            | 08/24/89             | 08/04/89            | \$40,750      |                  | FUNDS INCREASE |
| 43-SC-3369-1          | F. E. ENDACOTT & ASSOCIATES<br>(CONSULTING AGREEMENT) |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 1                                          | 07/11/89        | 06/09/89        | 06/30/89                | N/A            | 08/08/89      | 08/17/89            | 07/07/89             | 08/04/89            | \$92,000      | 08/17/89         | SIXTH AWP      |
| 44-SC-3369-1          | E. D. GREENAWALT<br>(CONSULTING AGREEMENT)            |                 |                 |                         |                |               |                     |                      |                     |               |                  |                |
|                       | AMEND. NO. 1                                          | 07/07/89        | N/A             | N/A                     | N/A            | 07/18/89      | 08/07/89            | 08/07/89             | 09/18/89            | \$7,500       | 09/20/89         | SIXTH AWP      |
|                       | AMEND. NO. 1                                          |                 | N/A             | N/A                     | N/A            |               | 10/26/89            |                      |                     | \$18,500      |                  | FUNDS INCREASE |
|                       | AMEND. NO. 1                                          | 09/19/89        | N/A             | N/A                     | N/A            | 10/03/89      | 10/03/89            | 10/03/89             | 10/24/89            | \$18,000      | 10/26/89         |                |





## SECTION IX

# CONSTRUCTION PROGRESS PHOTOS







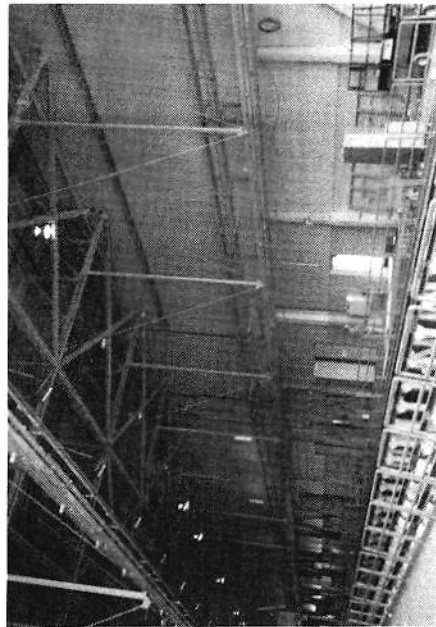
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

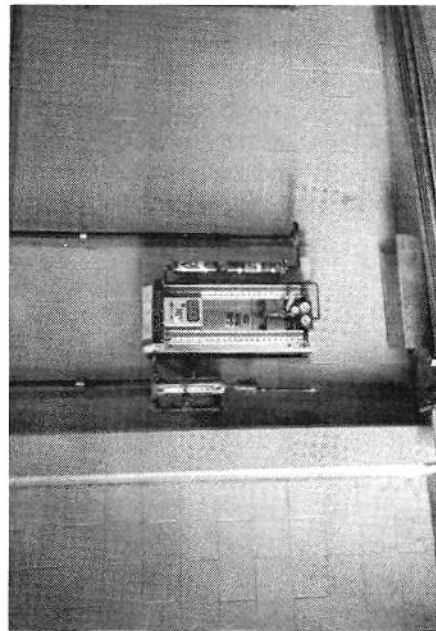
PDCD

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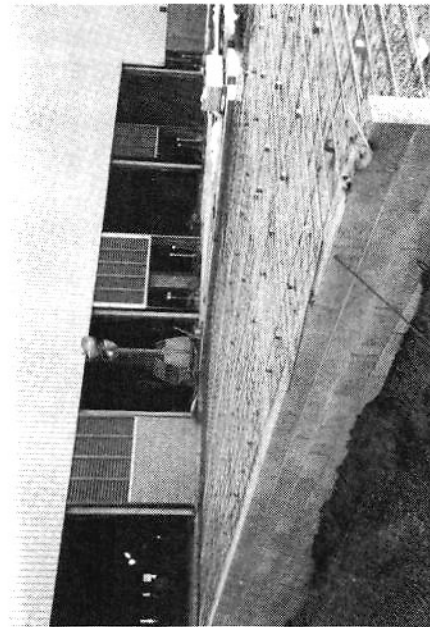
### MAIN SHOP BUILDING CONTRACT A112



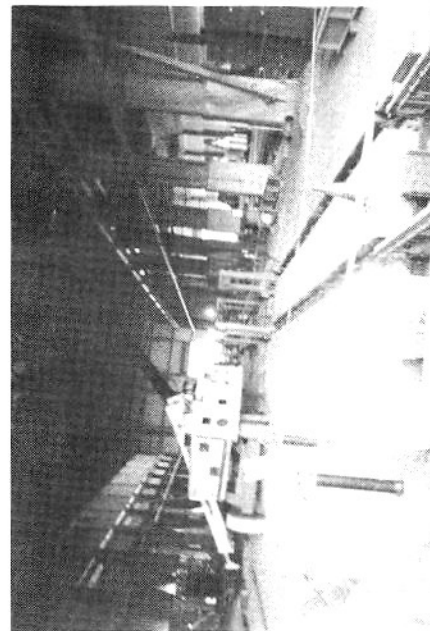
INTERIOR PANELING & HANDRAIL COMPLETE  
IN THE S & I AREA



BREATHING AIR STATION INSTALLED  
IN BLOWDOWN FACILITY



RETAINING WALL, APRON & TRACK FOUNDATION IN  
PROCESS, AT THE SOUTH END OF THE MAIN REPAIR AREA



MAIN REPAIR AREA, WITH CAR HOISTS BEING INSTALLED



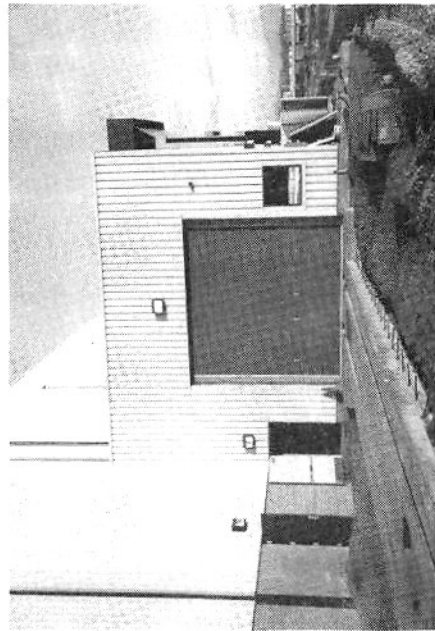
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

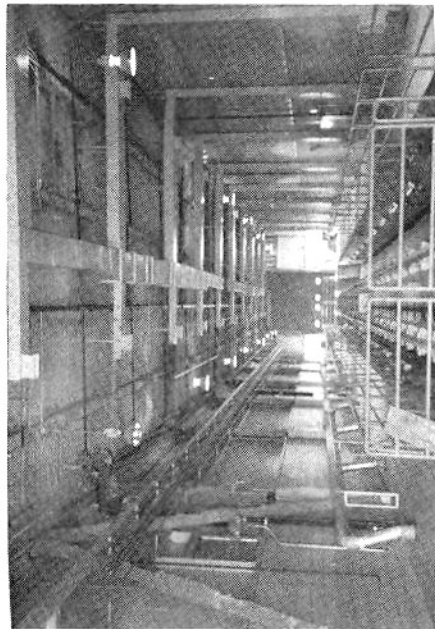
**PDCD**

PERIOD OCTOBER 1989

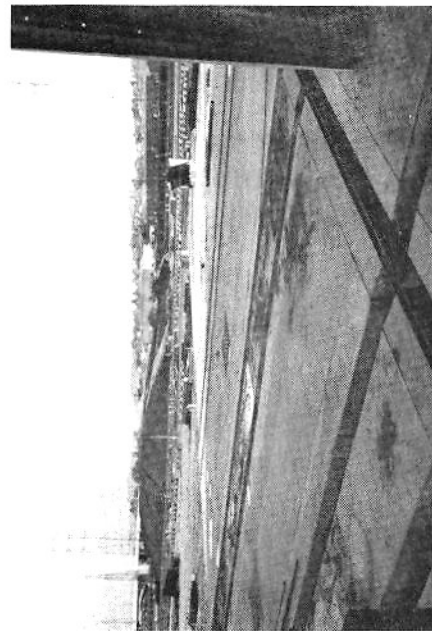
### MAIN SHOP BUILDING CONTRACT A112 (Cont'd)✓



SOUTH END OF BLOWDOWN FACILITY, WITH  
TELESCOPING DOOR & RAIL FOUNDATION IN PLACE



COMPLETED BLOWDOWN FACILITY



COMPLETED RAIL FOUNDATIONS & APRON AT  
THE NORTH END OF THE MAIN REPAIR AREA



REBAR PLACED FOR APRON AT SOUTH END  
OF MAIN REPAIR AREA

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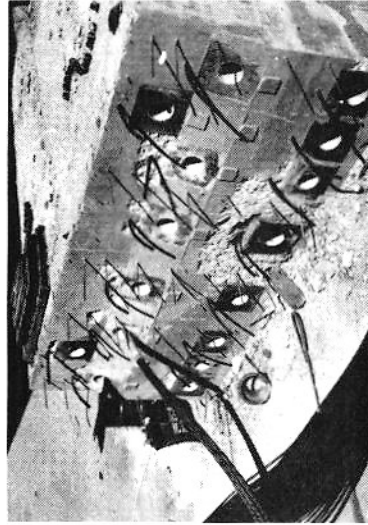
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

**PDCD**

PERIOD OCTOBER 1989

### YARD LEADS & TRANSFER ZONE CONTRACT A130



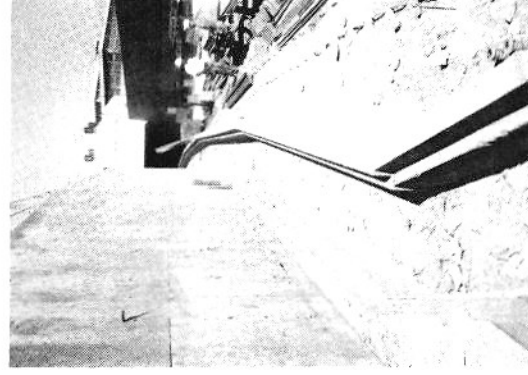
DUCTS IN TRANSFER BEAM FOR  
POST TENSIONING



SEISMIC BRACE BEING INSTALLED ON  
TRANSFER BEAM



EXISTING BENT SUPPORT BEING REMOVED  
FROM TRANSFER BEAM



CABLE TRENCH AND ELEVATED  
WALKWAY IN "U" WALL AREA



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

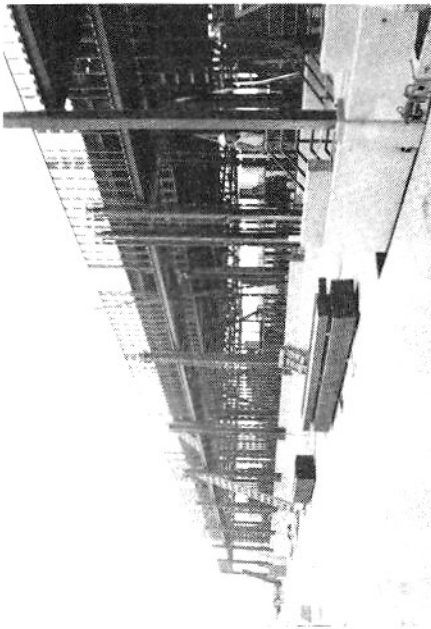
PDCD

PERIOD OCTOBER 1989

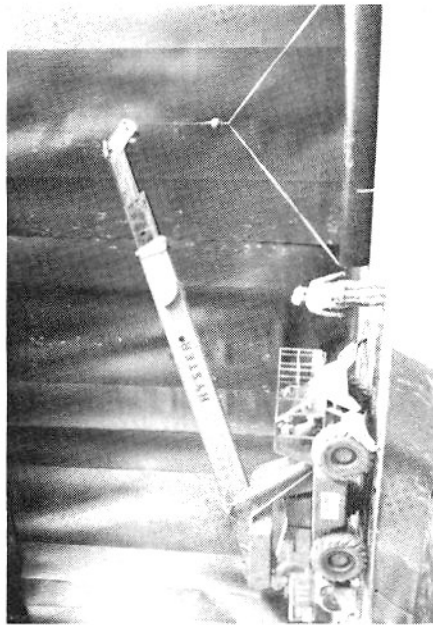
### UNION STATION CONTRACT A135



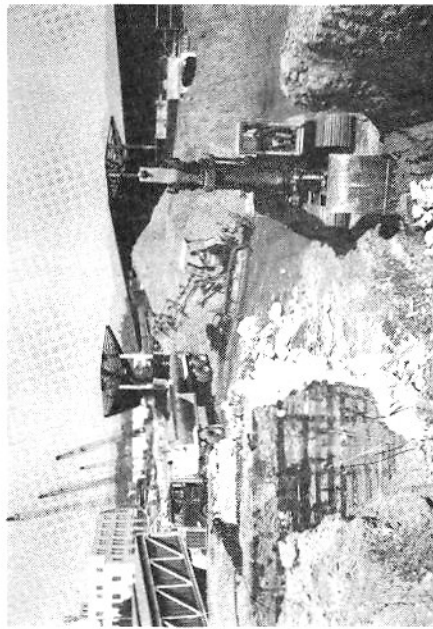
INVERT PREPARED FOR INSTALLATION OF GROUNDING  
GRID AND THE SLURRY WALL BEING PREPARED FOR  
HDPE, LOOKING SOUTHWEST FROM STA 102+00



LOOKING AT THE NEW BAGGAGE HANDLING  
FACILITY AT TRACKLEVEL, VIEW FROM  
N.E. CORNER LOOKING SOUTH



HDPE BEING ROLLED ALONG THE FACE OF THE  
NORTH SLURRY WALL, VIEW FACING NORTH WALL



DEMOLITION OF THE MAIN PASSENGER TUNNEL,  
LOOKING NORTH FROM PLATFORM #3

Parsons-Dillingham-De Leuw, Cather



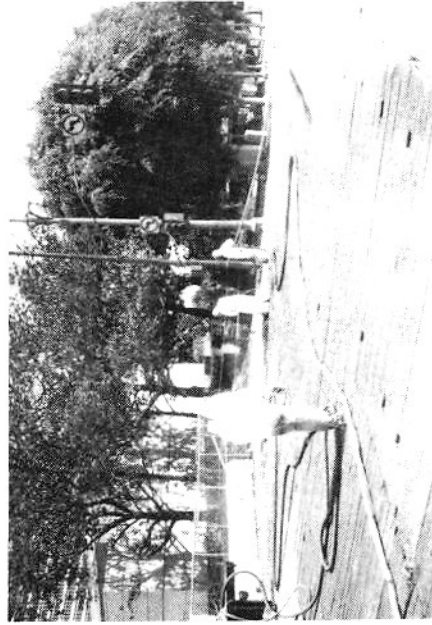
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

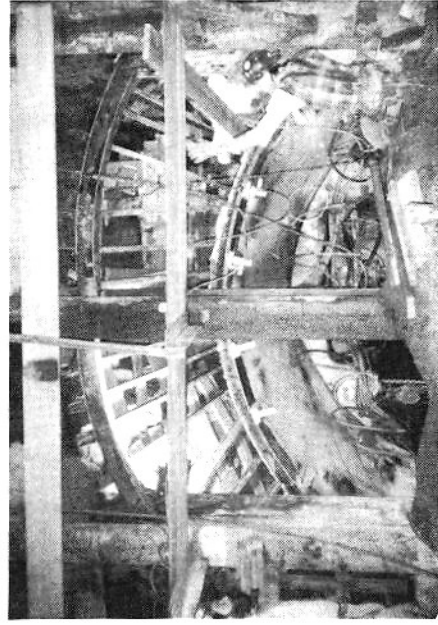
**PDCD**

PERIOD OCTOBER 1989

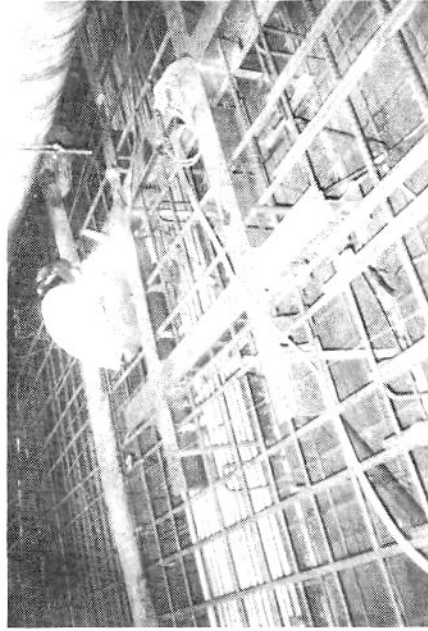
### CIVIC CENTER STATION AND TUNNEL CONTRACT A141



REAPPLYING NON-SKID COATING TO DECKING  
AT INTERSECTION OF FIRST & HILL STREETS



INSTALLING CROWN BARS AT AR TUNNEL PORTAL  
AT 5TH/HILL STATION PRIOR TO REMOVAL OF  
TUNNEL SHIELD HEAD THRU 5TH/HILL STATION



INSTALLING TRANSFORMER SUPPORT BASE IN  
ANCILLARY DECK PRIOR TO CONCRETING



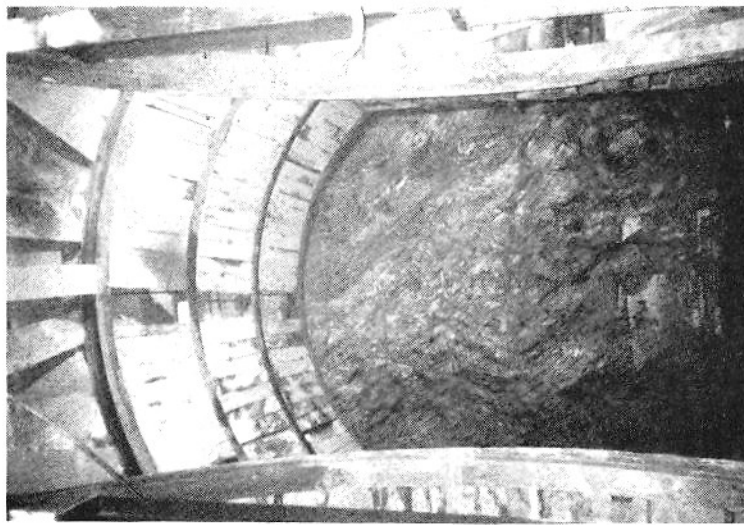


**LOS ANGELES METRO RED LINE**  
CONTRACT PERFORMANCE  
REPORT

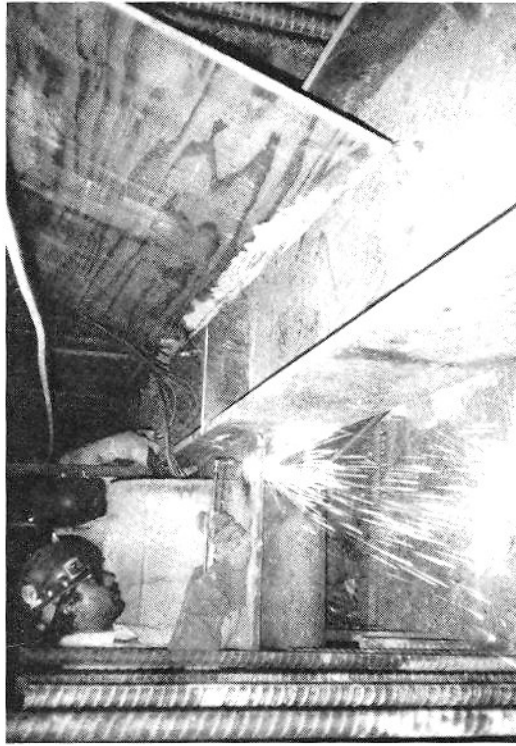
**PDCD**

PERIOD OCTOBER 1989

**CIVIC CENTER STATION AND TUNNEL**  
CONTRACT A141 (Cont'd)



CROSS PASSAGE #4 AFTER COMPLETING  
60% OF EXCAVATION FROM AR SIDE



CUTTING 'C' LEVEL WALER DURING TESTING  
OF STRUT REMOVAL PROCEDURE

Parsons-Dillingham-De Leuw, Cather



# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

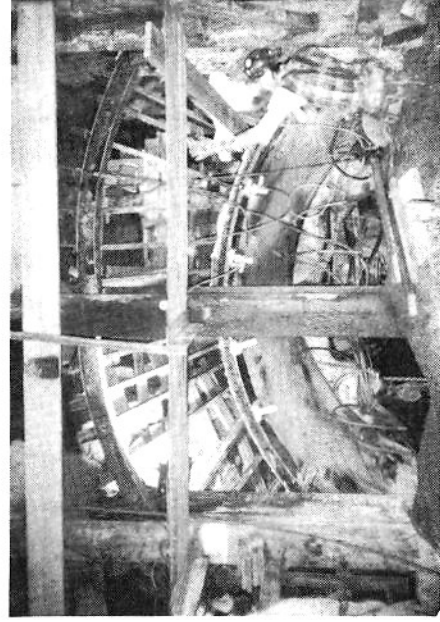
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PERIOD OCTOBER 1989

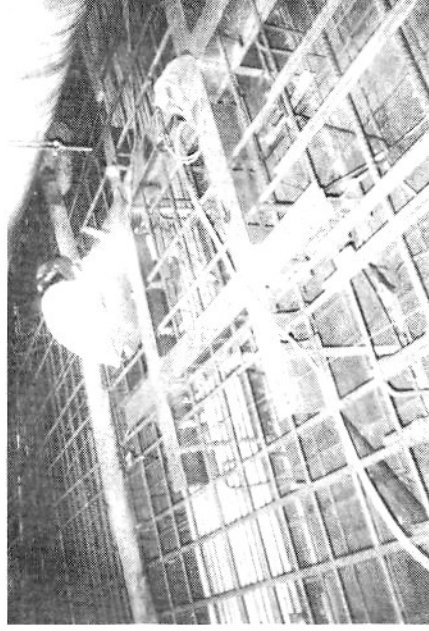
### CIVIC CENTER STATION AND TUNNEL CONTRACT A141



REAPPLYING NON-SKID COATING TO DECKING  
AT INTERSECTION OF FIRST & HILL STREETS



INSTALLING CROWN BARS AT AR TUNNEL PORTAL  
AT 5TH/HILL STATION PRIOR TO REMOVAL OF  
TUNNEL SHIELD HEAD THRU 5TH/HILL STATION



INSTALLING TRANSFORMER SUPPORT BASE IN  
ANCILLARY DECK PRIOR TO CONCRETING

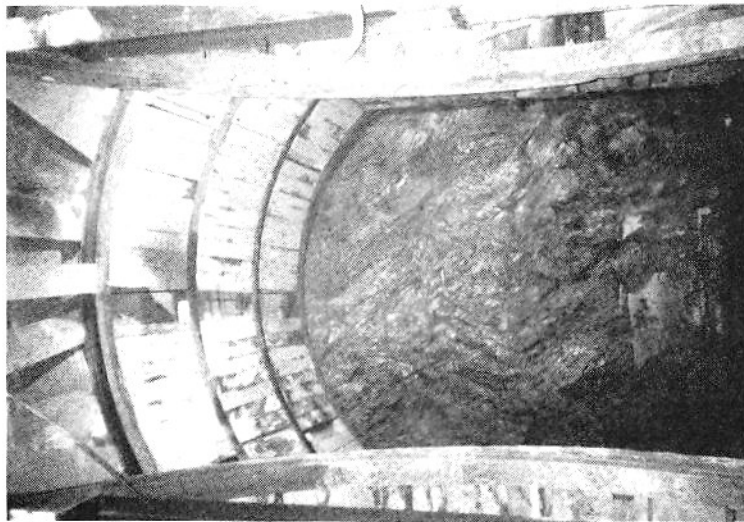


LOS ANGELES METRO RED LINE  
CONTRACT PERFORMANCE  
REPORT

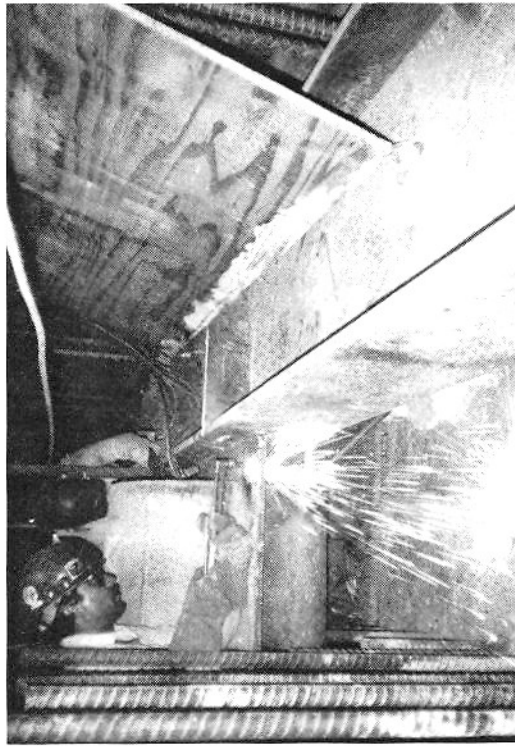
PDCD

PERIOD OCTOBER 1989

CIVIC CENTER STATION AND TUNNEL  
CONTRACT A141 (Cont'd)



CROSS PASSAGE #4 AFTER COMPLETING  
60% OF EXCAVATION FROM AR SIDE



CUTTING 'C' LEVEL WALER DURING TESTING  
OF STRUT REMOVAL PROCEDURE

Parsons-Dillingham-De Leuw, Cather





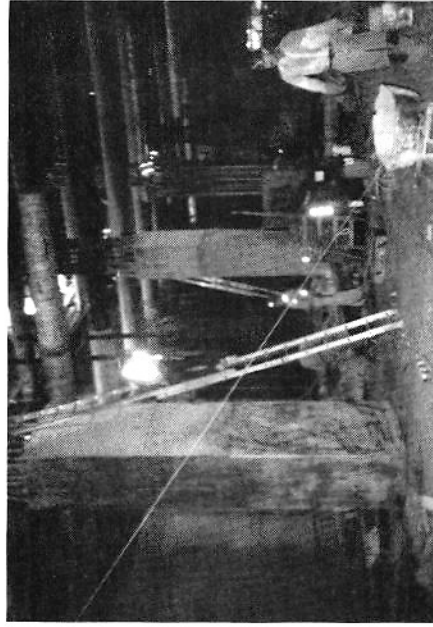
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

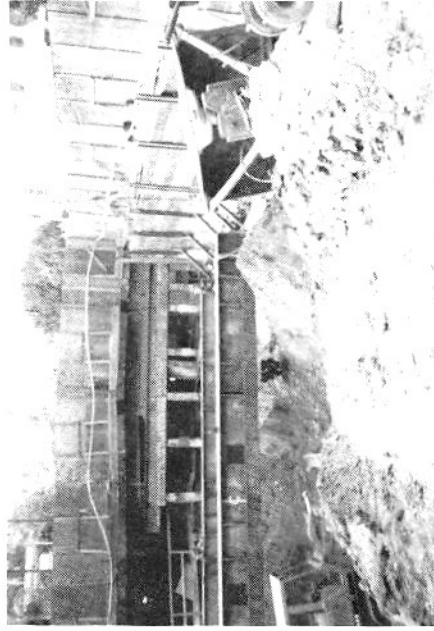
**PDCD**

PERIOD OCTOBER 1989

### 5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I CONTRACT A145/A145A



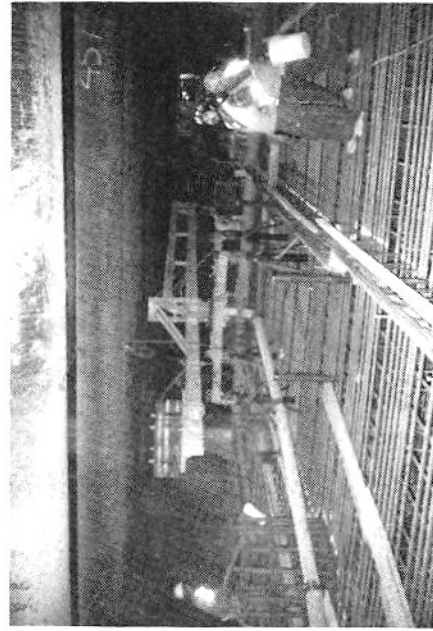
POURED STATION'S COLUMNS INVERT 13



SOUTHEAST ENTRANCE EXCAVATION.  
EXCAVATION SUPPORT SYSTEM INSTALLATION



STATION'S INTERIOR AND EXTERIOR WALLS,  
INVERT 14



PREPARATION FOR INVERT 4 CONCRETE POUR



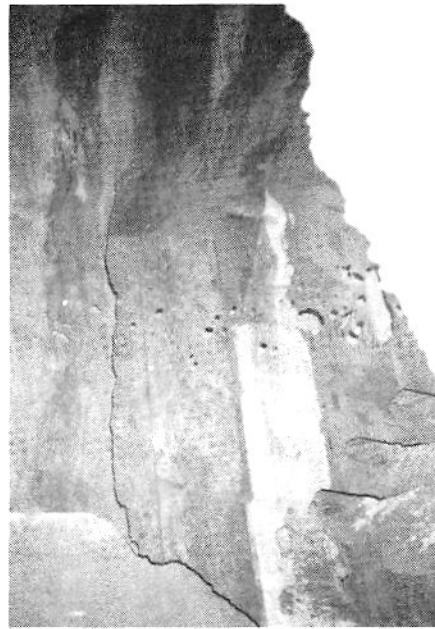
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

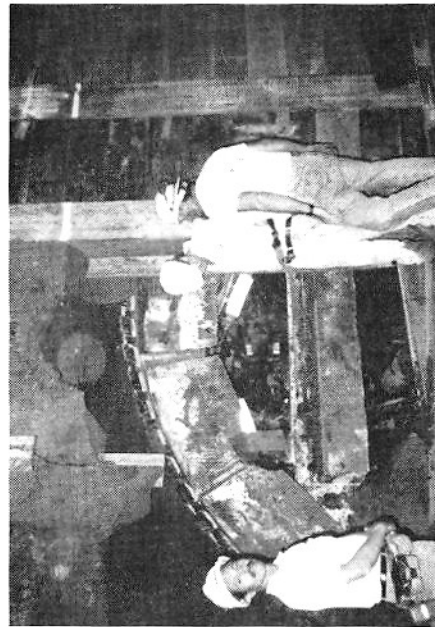
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PERIOD OCTOBER 1989

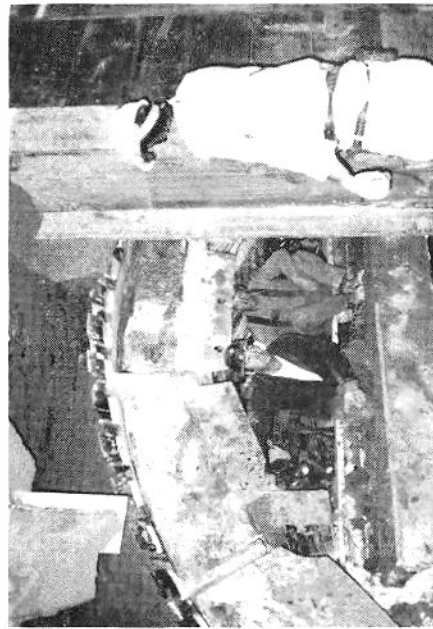
### TUNNELS FROM 5TH/HILL TO 7TH/FLOWER CONTRACT A146



SHOWS TIMBER LAGGING OF A165 EAST WALL  
AS IT WAS ENCOUNTERED IN A146 AR TUNNEL.  
EXCAVATOR BUCKET SHOWN IN LOWER LEFT



VIEW OF FRONT END OF TUNNELING MACHINE  
FROM THE EAST WALL OF A165 STATION



SHOWS WORKMEN CLIMBING INTO A165 STATION  
FROM AR TUNNEL BREAK THROUGH ON 10/25/89



WORKMEN REMOVING SOLDIER PILES AND LAGGING AT  
BREAK THROUGH INTO EAST WALL OF A165 STATION

Parsons-Dillingham-De Leuw, Cather



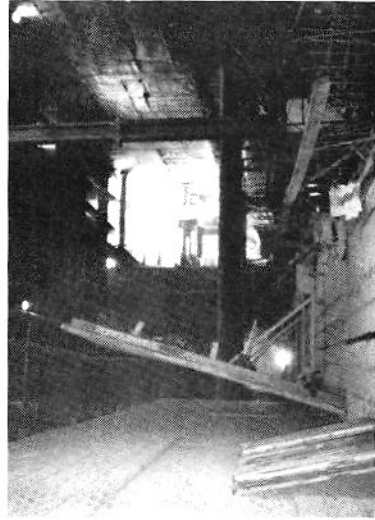
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

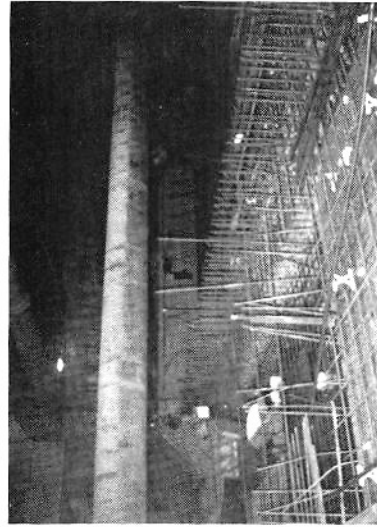
### 7TH/FLOWER STATION STAGE I CONTRACT A165



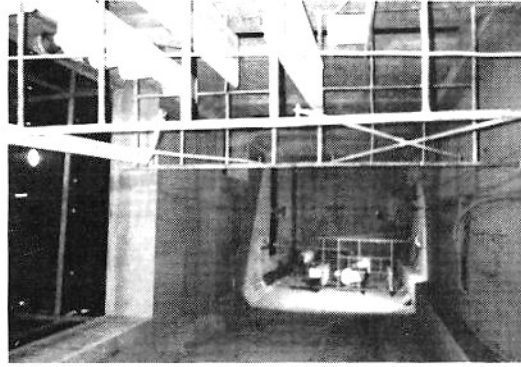
RED LINE TRACK LEVEL, FACING WEST



EXPOSING AIR TUNNEL AT EAST BULKHEAD



INSTALLING REBAR & EMBEDS FOR BLUE  
LINE ROOF SLAB, NORTH OF FLOWER ST.



BLUE LINE TRACK LEVEL,  
NORTH OF FLOWER ST.,  
MEZZANINE LEVEL ABOVE

Parsons-Dillingham-De Leuw, Cather





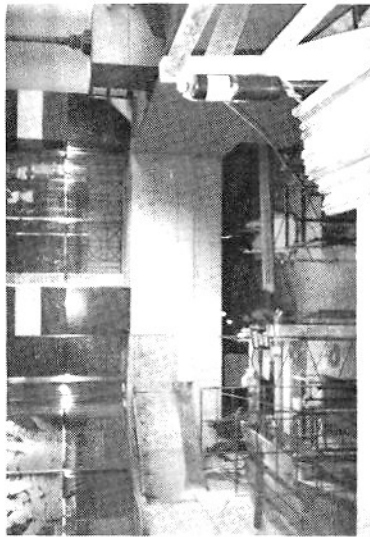
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

PDCD

PERIOD OCTOBER 1989

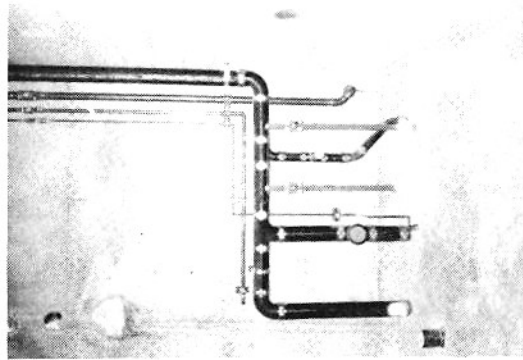
### 7TH/FLOWER STATION STAGE II CONTRACT A167



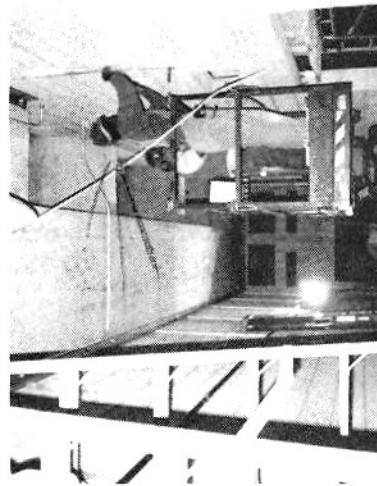
GRANITE CLADDING INSTALLATION, MRT WEST  
ENTRANCE AT THE HOME SAVINGS BLDG.



C.M.U. BLOCK AND SCAFFOLDING -  
PREPARATION FOR INSTALLATION OF  
CONCRETE MASONARY UNIT WALL -  
FAN ROOM #61 - RTD SPACE  
AT HOME SAVINGS BLDG.



PLUMBING LINES - TOILET  
ROOM #35 - RTD SPACE AT  
THE HOME SAVINGS BLDG.



INSTALLATION OF CABLE TRAY SUPPORT,  
CORRIDOR #62 - RTD SPACE AT  
THE HOME SAVINGS BLDG.

Parsons-Dillingham-De Leuw, Cather



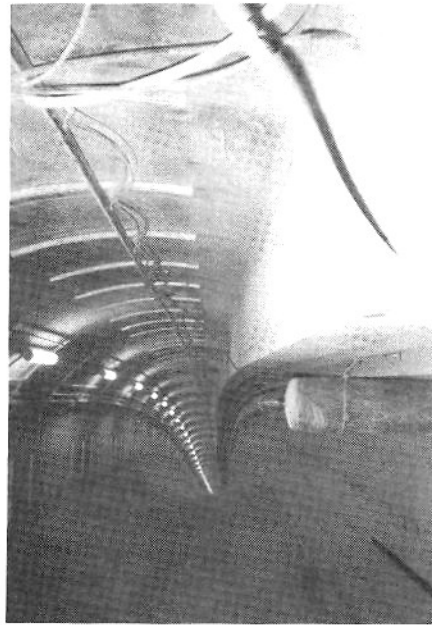
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

**PDCD**

PERIOD OCTOBER 1989

### LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO CONTRACT A171



INSTALLATION COMPLETED FOR LIGHTING  
AND WALKWAY IN THE AL TUNNEL



INSTALLATION OF CONDUITS IN AR TUNNEL



FABRICATION/INSTALLATION OF SUMP  
DISCHARGE PIPING



WET STAND PIPE SUPPLY LINE IN  
CROSSPASSAGE 12



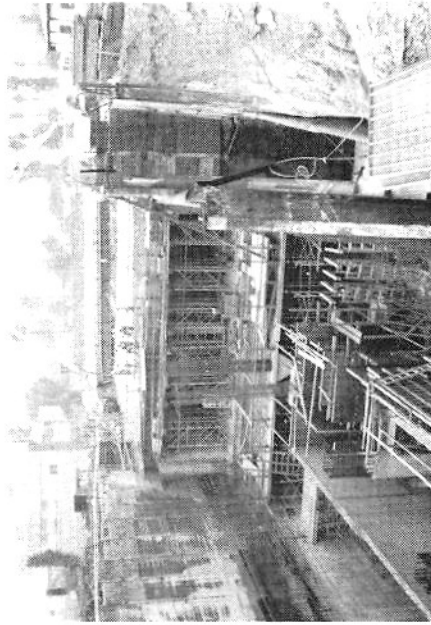
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

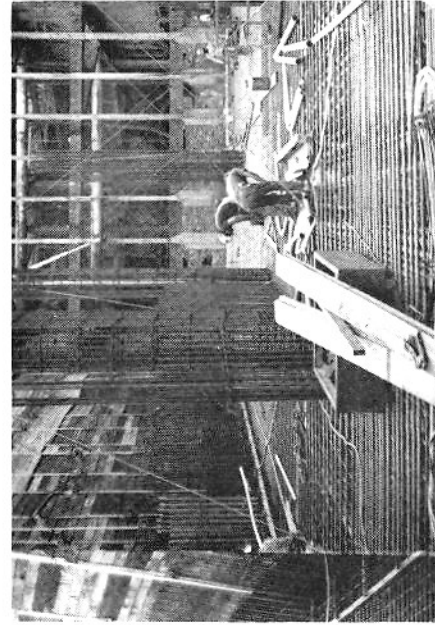
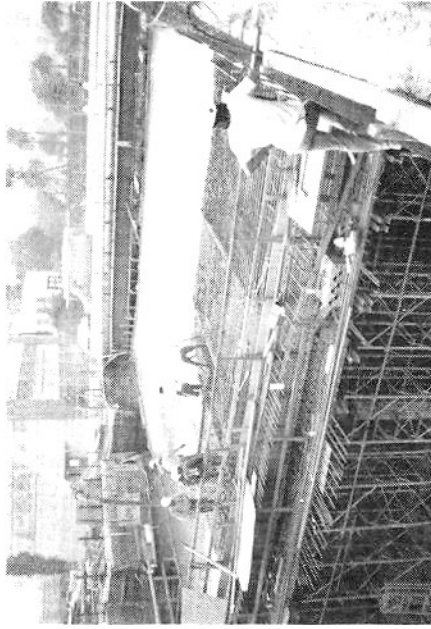
**PDCD**

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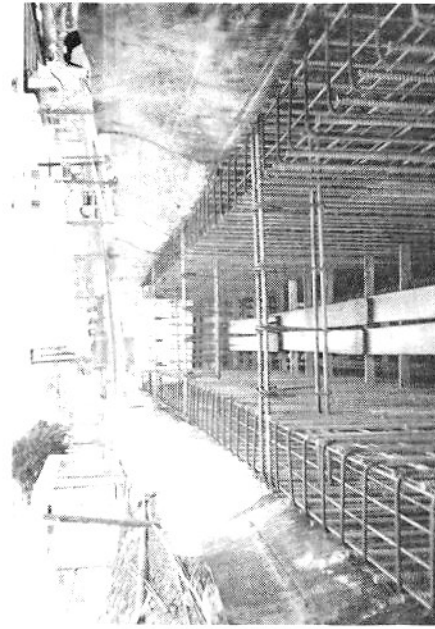
### WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175



PLACEMENT OF CONCRETE FOR FIRST ROOF SLAB 10/13/89,  
EAST OF WESTLAKE AVE.



PLACEMENT OF RESTEEL AND EMBEDDED ITEMS  
FOR BASE SLAB, AT THE A171/A175 SHAFT  
INTERFACE, BLOCKS 12 & 13



RESTEEL INSTALLATION FOR FRESH AIR INTAKE,  
EAST OF WESTLAKE AVE.

Parsons-Dillingham-De Leuw, Cather





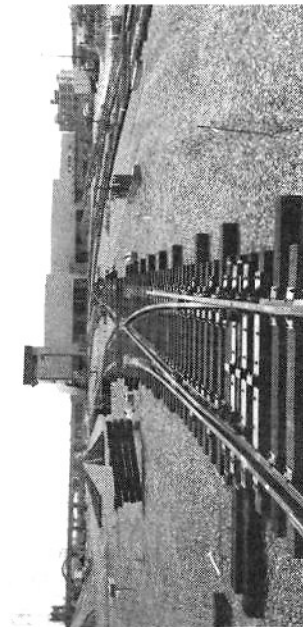
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

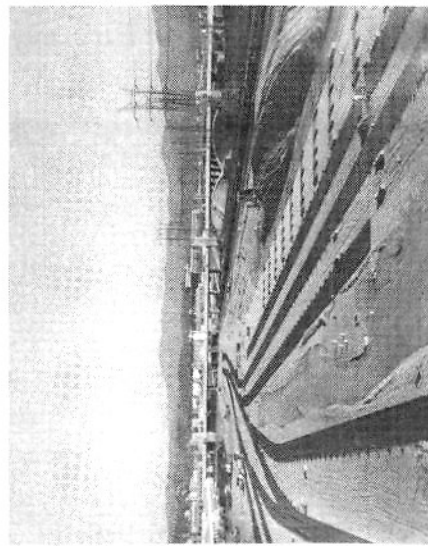
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PERIOD OCTOBER 1989

### TRACKWORK INSTALLATION/YARD STORAGE AREA CONTRACT A610/A115



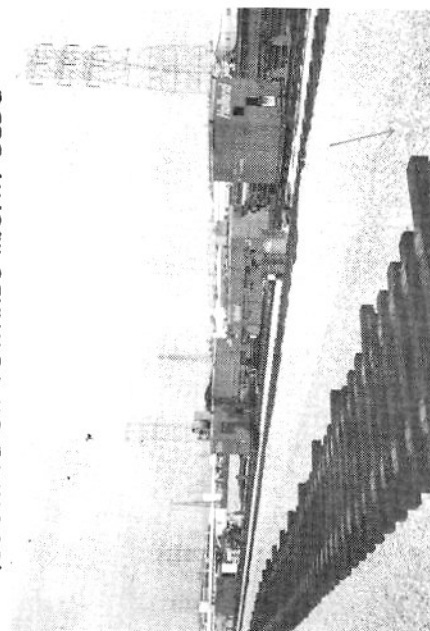
ASSEMBLING PRE-FABRICATED YARD ELECTRIFIED  
TURNOUTS NORTH OF MAIN SHOP BLDG.  
(LOOKING SOUTH TOWARDS MAIN SHOP BLDG.)



PRE-PLATED TIES, PRE-ASSEMBLED TURNOUTS AND  
BALLASTED FUTURE TRACK 8 FOR STORAGE OF CWR  
STRINGS. (LOOKING NORTH FROM MAIN SHOP BLDG.  
TOWARDS NORTH END OF YARD & 1ST. ST. BRIDGE)



GRADING WORK FOR NON-ELECTRIFIED  
MAINTENANCE-OF-WAY AND OUTDOOR STORAGE  
TRACKS, EAST OF M.O.W. BLDG.  
(LOOKING SW TOWARDS M.O.W. BLDG.)



COMPLETED SET-UP OF WELDING PLANT ON  
TRACK 9, WELDING OPERATIONS STARTED 11/26/89.  
(LOOKING NE FROM CAR WASH TRACK)

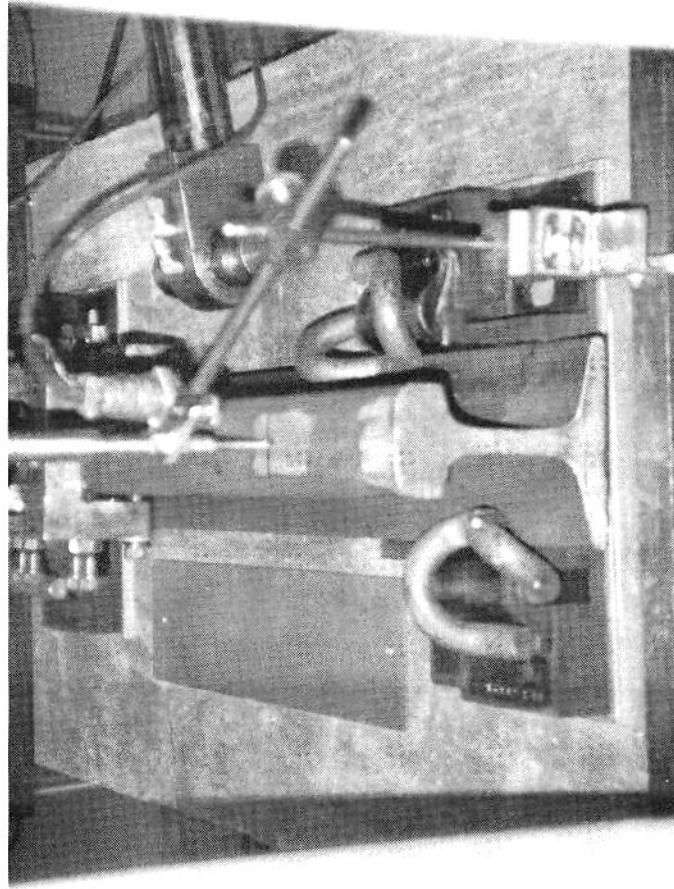


**LOS ANGELES METRO RED LINE**  
**CONTRACT PERFORMANCE**  
**REPORT**

**PDCD**

PERIOD OCTOBER 1989

**DIRECT FIXATION FASTENERS**  
**CONTRACT A616**



**PRODUCTION TESTING OF FASTENER**

Parsons-Dillingham-De Leuw, Cather



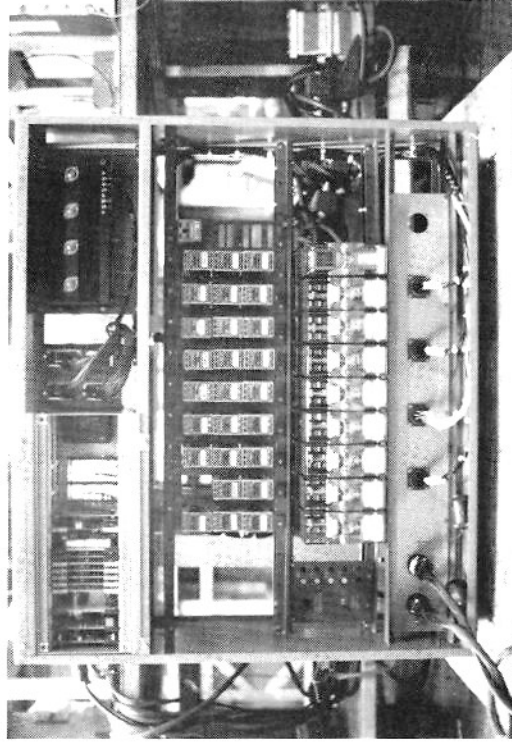
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

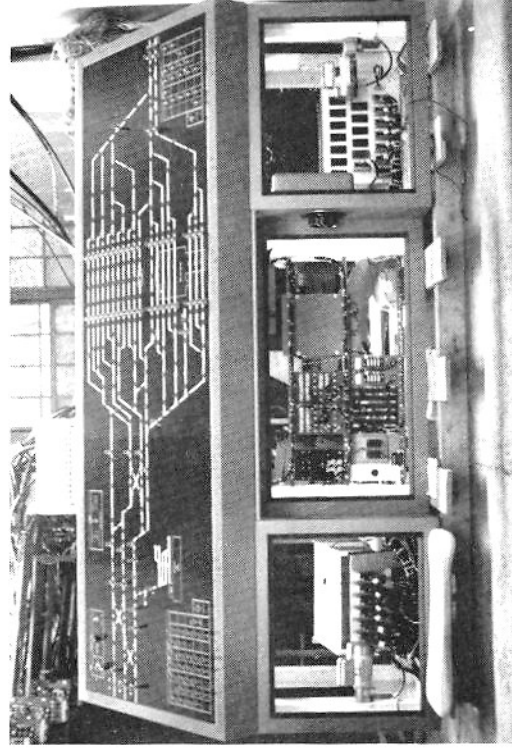
**PDCD**

PERIOD OCTOBER 1989

### AUTOMATIC TRAIN CONTROL CONTRACT A620



VEHICLE AUTOMATIC TRAIN PROTECTION  
RACK PROTOTYPE UNIT



YARD CONTROL CONSOLE, FACTORY  
TEST WEEK OF 9/18/89





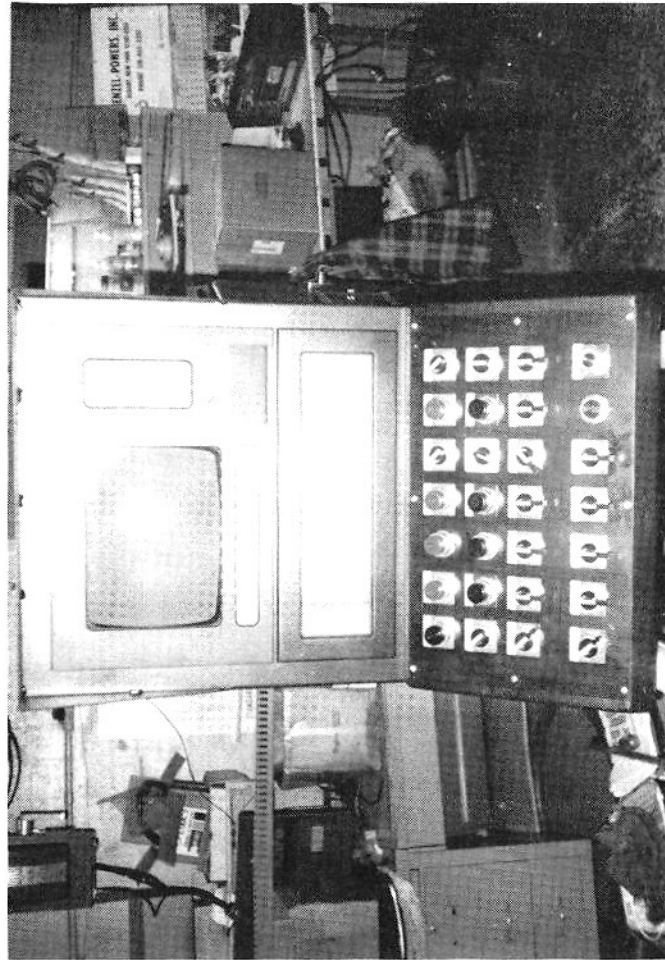
# LOS ANGELES METRO RED LINE

## CONTRACT PERFORMANCE REPORT

**PDCD**

PERIOD OCTOBER 1989

### WHEEL TRUING MACHINE CONTRACT A732 <sup>v</sup>



WHEEL TRUING MACHINE CONTROL UNIT

Parsons-Dillingham-De Leuw, Cather



# LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE  
REPORT

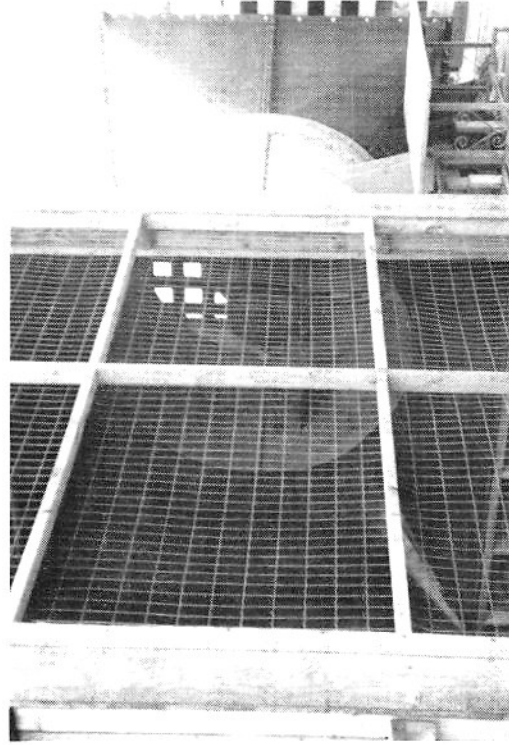
**PDCD**

PERIOD OCTOBER 1989

## VENTILATION EQUIPMENT CONTRACT A740



SUBWAY VENT FAN & DAMPER BEING  
TESTED FOR TRANSIENT PRESSURE  
CHARACTERISTICS



PARALLEL RUN-IN TEST OF EMERGENCY FAN







