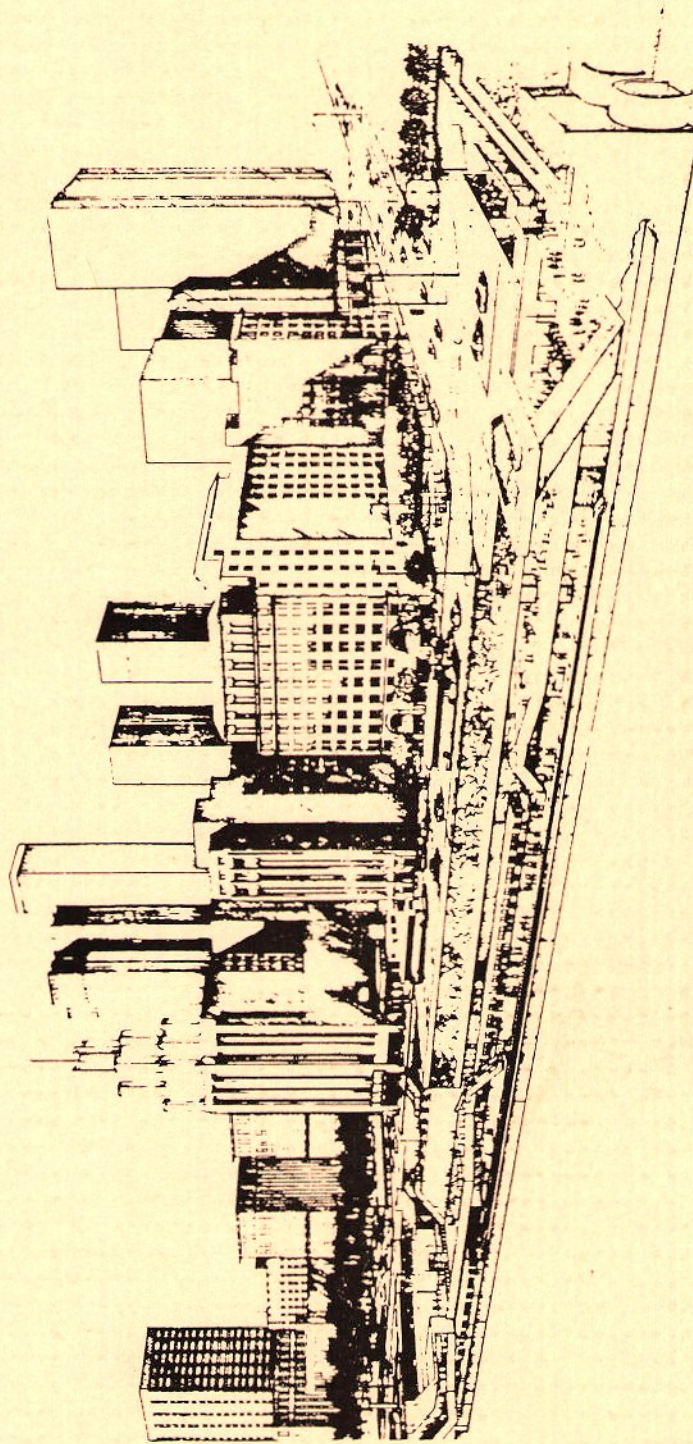


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no. 63



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

RTD



**REPORT NUMBER 63
SEPTEMBER 1989**

PDCD

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

MONTHLY CONTRACT PERFORMANCE REPORT

for the

LOS ANGELES **METRO RED LINE** PROJECT

SEPTEMBER 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 SEPTEMBER Year 1989

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LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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PERIOD SEPTEMBER 1989

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SECTION I

**CONSTRUCTION MANAGER'S
SUMMARY STATEMENT**



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MAJOR CM ACTIVITIES

I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

This Contract Performance Report (CPR) for the month of September 1989 is the third CPR in the Sixth Annual Work Plan (6th AWP) and covers the period August 26 to September 29, 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 August Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB). Prepared and submitted August LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Coordinated and assured regulatory compliance for new flows from A130 and A135 dewatering activities.

Utilities and Traffic Activities: Continued coordination of traffic control plans and street closures with city agencies for 4 contracts. Continued coordination of MOS-1 inspections with LADOT. Processed a total of 13 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. Started walkway as-builts survey for AR and AL tunnels (A171). Completed tunneling shields locations as-builts in A165 station (A165/A171 Interface). Checked manhole elevations for power and storm and sanitary sewers for A135 Baggage Handling Facility parking lot. Started review of high utilities claims (A165).



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PROJECT CONTROLS: Processed 27 Change Requests as follows: 2 for A112; 2 for A130; 2 for A135; 2 for A141; 1 for A145; 1 for A146; 5 for A165; 3 for A167; 1 for A171; 2 for A175; 3 for A610/A115; 1 for A612; 1 for A620; and 1 for A740. Processed 15 Change Notices as follows: 1 for A135; 5 for A141; 2 for A165; 1 for A167; 1 for A171; 2 for A175; and 3 for A610/A115. Processed 73 Change Orders as follows: 3 for A112; 4 for A130; 7 for A135; 9 for A141; 3 for A145; 7 for A146; 15 for A165; 2 for A167; 2 for A175; 11 for A610/A115; 1 for A615; 4 for A620; 1 for A640; 1 for A650; 1 for A740; 1 for A745; and 1 for A755. Processed 43 executed Change Orders through TRACS as follows: 1 for A130; 5 for A135; 7 for A141; 1 for A144; 4 for A145; 3 for A146; 10 for A165; 1 for A175; 7 for A610/A115; 2 for A620; 1 for A640; and 1 for A710. Processed 9 Potential Claims as follows: 3 for A112; 1 for A141; 2 for A145; 1 for A146; and 2 for A165. Processed 18 Change - Technical Evaluations as follows: 1 for A112; 2 for A135; 1 for A141; 1 for A144; 1 for A146; 2 for A165; 3 for A175; 3 for A610/A115; 1 for A630; 2 for A640 and 1 for A650. Processed 4 Force Account Change Packages as follows: 1 for A130 and 3 for A135. Completed Close-out Reconciliations on 6 Force Account Change Orders as follows: 1 for A145; 2 for A146; and 3 for A165. 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 A165 and A167. Approved A171 Part II Schedule revision. Reviews in process for Part II Schedule revisions from A130 and A145. Rejected A175 Part II Revised Schedule.

Cost Estimates for Changes/Proposals: A-130-CR-026A: Completed estimate for revised communication duct bank connection to LAFD and PacBell. A-130-CR-031: Prepared estimate for revisions to incoming electric service room. A-130-CR-038: Reviewed scope of work and contractor's proposal for extended depth of 48" diameter drilled piers at Busway Bent 4. A-135-CR-001: Completed estimate for revised east entrance at Union Station. A-135-CR-004: Continued to review proposals for changes at LAUPT Baggage Handling Facilities and attended negotiations. A-135-CR-011: Prepared quantity takeoff for west entry changes. A-135-CR-032: Prepared estimates, reviewed proposals, and negotiated mechanical, electrical and miscellaneous changes for LAUPT Police Room. A-135-CR-059: Prepared estimate for enlarging opening in concrete wall. A-135-CR-051, A141-CR-120, A-145-CR-147, A165-CR-033, A-171-CR-05: Reviewed changes and prepared estimates for emergency telephone blockouts. A-141-CR-011: Access delay Union Station, prepared estimates, evaluated contractor proposals and participated in negotiations. A-141-CR-040: Completed estimate for change to incoming electric service room. A-141-CR-100: Prepared estimate for elevator equipment room changes. A-141-CR-109: Prepared estimate for changes to unknown 3" water main, southwest entrance. A-141-CR-095 A-165-CR-048: Prepared estimates for increased escalator wellway rough openings. A-165-CR-075: Began estimate for combined wet standpipe and sprinkler system. A-165-CR-091: Prepared estimate for 4" GRS conduit in Roosevelt Building. A-167-CR-009: Completed estimate for revised metal partitions at BRS. A-620-CR-029: Prepared estimate for access to yard



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Control Tower Cable Tray. Assisted Resident Engineers in developing R.O.M. estimates and reviewed Contractor proposals.

CONTRACT/PROCUREMENTS: Subsequent to District approval: (a) Issued a Request for Quotation for five Personal Computers and related software; (b) Completed the execution of all AWP-6 Amendments for Services Subcontracts with the issuance of amendments to Construction Photography and Laboratory Testing and Inspection; (c) Completed the execution of all AWP-6 Amendments for Associate Subcontractors with the issuance of amendments to Ochoa & Sillas, D'Leon Consulting Engineers Co. and Transmetrics; (d) Issued AWP-6 Amendment to Consulting Subcontract with Mueser-Rutledge; (e) Issued AWP-6 Consulting Subcontract with F. E. Endacott; and (f) Issued Consulting Subcontract with Wally B. Evans & Associates.

ENGINEERING SERVICES: Increased monitoring of A145 strut loads when some loads built up to more than 150 percent of design. Continued increased monitoring until loads stabilized. Received A135 geotechnical/environmental report from Contractor and delivered boring logs to MRTC for inclusion in A146 Contract documents. Transmitted Converse Consultants' proposal for A141 hard rock evaluation borings to consultant J.P. Gould for review. Briefed RTD consultant J.P. Gould on the A141 claims for hard rock in the tunnels and strut overloads in Civic Center Station. Began collection of detailed data on A141 Civic Center construction operation sequencing to be plotted against instrumentation readings. Compiled and transmitted to RTD consultant, J.P. Gould, various A141 rock property plots for use in evaluating the hard rock claim. Processed 15 field inquiries with MRTC to obtain clarification of design requirements. Responded to 203 requests for information or documentation clarification from various contractors.

During this period 371 Contractor submittals were processed as follows:

For Contract 112	- Approved - 7;	Approved-as-Noted - 5;	Rejected - 2;	For Record Only - 7.
For Contract A130	- Approved - 19;	Approved-as-Noted - 2;	Rejected - 4;	For Record Only - 1.
For Contract A135	- Approved - 10;	Approved-as-Noted - 15;	Rejected - 1;	For Record Only - 1.
For Contract A135BH	- Approved - 14;	Approved-as-Noted - 4.		
For Contract A141	- Approved - 10;	Approved-as-Noted - 14;	Rejected - 7.	
For Contract A145	- Approved - 4;	Approved-as-Noted - 21;	Rejected - 1;	For Record Only - 4.
For Contract A146	- Approved - 7;	Approved-as-Noted - 8;		For Record Only - 1.



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For Contract A165	- Approved - 33;	Approved-as-Noted - 39;	Rejected - 3;	For Record Only - 3.
For Contract A167	- Approved - 14;	Approved-as-Noted - 14;	Rejected - 6.	
For Contract A171	- Approved - 2;	Approved-as-Noted - 4.		
For Contract A175	- Approved - 2;	Approved-as-Noted - 2.	Rejected - 1.	
For Contract A610/A115	- Approved - 13;	Approved-as-Noted - 3;	Rejected - 1.	
For Contract A612	- Approved - 5;	Approved-as-Noted - 1;		
For Contract A616	- Approved - 1.			
For Contract A620	- Approved - 6;	Approved-as-Noted - 2;	Rejected - 1;	For Record Only - 1.
For Contract A630	- Approved - 4;	Approved-as-Noted - 3.		
For Contract A631	- Approved - 3;		Rejected - 2.	
For Contract A640	- Approved - 17;	Approved-as-Noted - 7.		
For Contract A710	- Approved - 4;	Approved-as-Noted - 1.		
For Contract A740	- Approved - 1.			
For Contract A745	- Approved - 2;	Approved-as-Noted - 2.		

TOTAL

178

147

28

18 = 371

SAFETY/SECURITY: Performed daily site safety, health and security surveillances and prepared written reports for the A112, A130, A135, A141, A145, A146, A165, A167, A171, A175 and A610/A115 construction contracts. Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service Subcontractors. Reviewed and accepted the A631 Safety and Security Program. Reviewed and rejected the A631 Safety Representative candidate. Revised and distributed the Emergency Response Plan.

COMMUNITY RELATIONS - Coordinated community notifications for 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 A141, A145, A146 and A165 for problems caused by blocked access, noise and accidents. Provided assistance to RTD in responding to media requests and coordinating 13 site visits. Processed 45 inquiries/complaints. Provided assistance to RTD/GPA in coordination of September 27 Community Awareness Followup Meeting for 7th/Flower 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 starpacks, knebrace 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 Hydraulic Oil Lines, Wet Standpipe pipe spool, and Domestic Water Line; A175 Fire Lines; and A115 Fire Lines. Inspected welded joints on A165 Deluge Lines and inspected A130 Post-Tensioned concrete beam for bus-way; Monitored Smith-Emery testing of elastomeric pad samples for A171. Participated in A112 and A121 contract close-out activities. Participated in initial Safety Certification Review Team Audit of Contract A112, and supported initial site visit by RTD departmental representatives. Conducted QA review of approximately 398 contractor submittals for various contracts. Concluded Quality Assurance audit of Flakt, Inc. and National Metals Inc. for contracts A740 and A745. Supported audit of PDCD/QA Program by U.S. DOT Inspector-General. 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 visits/employee interviews at A175 regarding Citicon, Inc. Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for 6 Contracts.

MANPOWER PERFORMANCE

The manpower performance for September is measured against the approved planned staffing for this period from the 6th AWP. During September the actual staff level was 192 vs. the planned staff level of 178. Therefore, the actual staff count for September was 14 over the planned staffing level. The staff breakdown by company was 131 for the Joint Venture firms and 61 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 jobsites.

Parsons-Dillingham-De Leuw, Cather



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CONTRACT PERFORMANCE

REPORT

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The September period had 192 available workhours/person. The plan provided for expenditure of 34,176 hours, including "as-required" manhours which would have generated a projected equivalent head count of 178.0 personnel at 192 hours/person. Actual hours expended were 34,433 which translates into a 179.34 equivalent head count at 192 hours/person including temporary personnel, resulting in the equivalent of 1.34 personnel over the plan.

Cumulative total hours incurred through September were 88,640 against a plan of 89,584 resulting in an under plan variance of 944 hours.

EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in September 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 24.1%, 4.1% over the goal of 20%. Cumulative DBE participation since contract inception is 23.5%, 3.5% above the 20% goal.
- o Minority and Women Affirmative Action performance for the month exceeded the established goal of 17% for minorities by 21% and met the goal of 8% for women.

SCHEDULE PERFORMANCE

- o Contractor Submittals - During this period, 362 submittals were received per contract number as follows: A112 (15), A130 (27), A135 (35), A135BH (7), A141 (33), A145 (46), A146 (7), A165 (67), A167 (19), A171 (6), A175 (13), A610/A115 (22), A612 (5), A615 (1), A616 (2), A620 (15), A630 (6), A631 (6), A640 (25), A710 (2), A732 (0), A740 (1), and A745 (2); of the 362 received this period plus the 275 carryover from August, 371 packages were processed and returned to the contractors; the balance of 266 remain in review.
- o Constructibility Reviews - Completed Constructibility Review of A136/100% - Union Station West Entrance and Stage II finish. Commenced review of A760 - Signing and Edgelight Procurement.
- o Claims Avoidance Reviews - Completed Claims Avoidance Review (CAR) of A118 - Yard Site Landscaping and A136 - Union Station West Entrance and Stage II. Continued CAR of A157 - 5th/Hill Station, Stage II, final design. Commenced CARs for A147 - Civic Center Station, Stage II final design and A760 - Signing and Edgelights.



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COST PERFORMANCE - Sixth Annual Work Plan

- o Total incurred costs of \$1,562,248 for CM Direct Services (excluding General Condition Items) for the period were under the plan of \$1,635,257 by \$73,009. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$22,753 and labor expenditures (total PDCD and subcontractors) being under the plan by \$50,256.
- o The cumulative costs for total CM Services (including General Condition Items) incurred through September were \$4,203,416 against a plan of \$4,513,017 resulting in an under plan of \$309,601.
- o The September CPR indicates an Estimate at Completion as of the 6th AWP (including General Condition Items) of \$16,838,935 versus a plan of \$16,872,967 for an underexpenditure of \$34,032.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$36,147 for the period were under the plan of \$64,691 for the period by \$28,544. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of \$792,171 which is over the plan of \$791,300 by \$871.

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



LOS ANGELES METRO RED LINE

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II. MANPOWER PERFORMANCE

This CPR for the month of September 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 September.

During September, personnel assignments/deletions included the addition of 1 Field Office Engineer (A144), 2 Inspectors, 1 Word Processor, 1 QA/QC Engineer (A/R), 2 Mechanical Engineers A/R), 3 Electrical Engineers (A/R), 1 Structural Engineer (A/R), and 1 Secretary; and the deletion of 1 Assistant Resident Engineer/Office Engineer, 1 Chief Inspector, 1 EO Administrator, 1 Manager, Engineering Services, 1 Lead Planner/Scheduler, 1 Field Office Engineer and 1 Cost Engineer (A/R).

For the September period, under the approved 6th AWP, the total planned staffing level (including regular and as-required classifications) is 178. The actual staff (including regular, as-required and temporary classifications) was 192 resulting in 14 over the plan. The current actual staff by company for the September period is as follows:

Company	Staff Level	Company	Staff Level
The Ralph M. Parsons Company	59	Jenkins, Gales & Martinez, Inc.	10
Dillingham Construction, Inc.	53	Kal Krishnan Consulting	2
De Leuw, Cather & Company	19	Martin & Huang International	3
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	3
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 September.



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The September period had 192 available workhours/person. The plan provided for an expenditure of 34,176 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 178.0 personnel @ 192 hrs/person. Actual hours expended were 34,433 which translates into an equivalent head count of 179.34 @ 192 hrs/person including temporary personnel, resulting in the equivalent of 1.34 personnel over the plan.

The hours expended for the period were 34,433 versus a plan of 34,176. The 257 manhours variance for the period is calculated as follows:

1.34 equivalent staff over plan @ 192 hours/period in plan =	<u>257 hours</u>
SEPTEMBER MANHOUR VARIANCE TO PLAN	<u>257 hours</u>

Cumulative total hours for the 6th AWP incurred through September were 88,640 against a plan of 89,584 resulting in an under plan variance of 944 hours (Page 23).



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PERIOD SEPTEMBER 1989

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

Position	Phase II Construction Services			Variance
	Planned	Actual	Regular/As-required/Temporary	
Construction Manager	1	1	0	0
Manager, Safety and Security	1	1	0	0
Safety Inspectors	1	1	0	0
Manager, Quality Assurance(3)	1	0	(1)	(1)
Lead Quality Assurance Engineer(3)	0	0	0	0
QA/QC Engineers/Inspectors	2	3	1	1
Manager, Project Administration/Accounting(5)	1	1	0	0
Lead Accountant(5)	0	1	1	1
Senior Accountant	1	1	0	0
Senior Accounting Clerks	2	2	0	0
Manager, Community Relations	1	1	0	0
Community Relations Coordinator	1	1	0	0
Monitoring Coordinator	1	1	0	0
ED Administrator	1	0	(1)	(1)
Labor Relations Advisor	0	0	0	0
Legal Counsel	0	0	0	0
Subtotal	15	14	(1)	(1)
DCM, Eng'r Serv./Proj. Controls(4)	0	0	0	0
Manager, Eng'r Serv./Proj. Contr.(4)	0	0	0	0
Manager, Administration and Staff Support(4)	1	1	0	0
Manager, Project Controls	1	1	0	0
Technical Data Coordinator	1	1	0	0
Lead Engineer	1	1	0	0
Cost Engineer	4	4	0	0
Lead Change Control	1	1	0	0
Change Control Specialist	2	0	(2)	(2)
Claims Proc. Spec.	1	1	0	0
Data Technicians	1	1	0	0
Lead Planner/Scheduler	1	1	0	0
Planner/Schedulers	9	7	(2)	(2)
Lead Estimator	1	1	0	0
Estimators	3	4	1	1
Sr. Data Technician	1	1	0	0
Computer Support Control Specialist	0	0	0	0
Lead Control Specialist	1	1	0	0
Document Control Specialist	1	1	0	0
Shop Drawing Coordinator	1	1	0	0
Data Technician	1	2	1	1
File Clerk	1	2	1	1
Manager, Contracts/Procurement(5)	1	1	0	0
Sr. Contract Administrator	1	1	0	0
Office Services Manager	2	1	(1)	(1)
Secretarial/Word Processing/Clerical/Drafting/Courier	14	15	1	1
Subtotal	51	50	(1)	(1)
Manager, Engineering Services/Systems Integration	1	1	0	0
Drafting Technicians	2	2	0	0
Lead Architect	1	1	0	0
Architect	0	2	2	2
Lead Electrical Engineer	1	1	0	0
Electrical Engineer	1	3	2	2
Lead Engineer, Geotech. Section	1	1	0	0
Engineers, Geotech. Section	4	7	3	3
Lead Mechanical Engineer	1	1	0	0
Mechanical Engineer	0	3	3	3
Lead Structural Engineer	1	1	0	0
Structural Engineer	1	3	2	2
Sr. Struct./Struct. Engineers	2	4	2	2
Lead Systems Engineer	1	1	0	0
Systems Engineer	2	1	(1)	(1)
Office Engineer	0	1	1	1
Subtotal	18	29	11	11
DCM, Operations	1	1	0	0
Manager, General Services	1	1	0	0
Lead Utilities Engineer	1	0	(1)	(1)
Permitting Engineer	1	2	1	1
Instrument Person	1	1	0	0
Lead Environmental Engineer	2	1	(1)	(1)
Environmental Specialist	1	1	0	0
Engineering Technician/Coordinator	3	2	(1)	(1)
Resident Engineers	0	1	1	1
Chief Inspectors	9	8	(1)	(1)
Sr. Inspectors/Inspectors	8	8	0	0
Office Engineers	34	38	4	4
Field Secretaries/Clerical	9	10	1	1
Manager, Systemwide Construction	10	12	2	2
Office Engineer	1	1	0	0
Resident Engineers	3	3	0	0
Secretaries/Clerical	4	4	0	0
Inspector	0	4	4	4
Data Technicians	0	0	0	0
Subtotal	94	99	5	5
Totals	178	192	14	14

NOTES:

- (1) The "Planned" staff count is taken directly from the RTD approved PDCD 6th App. 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) Effective July 1, 1989, the duties of the Manager, Quality Assurance have been reassigned to the Lead QA/QC 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.

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.

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

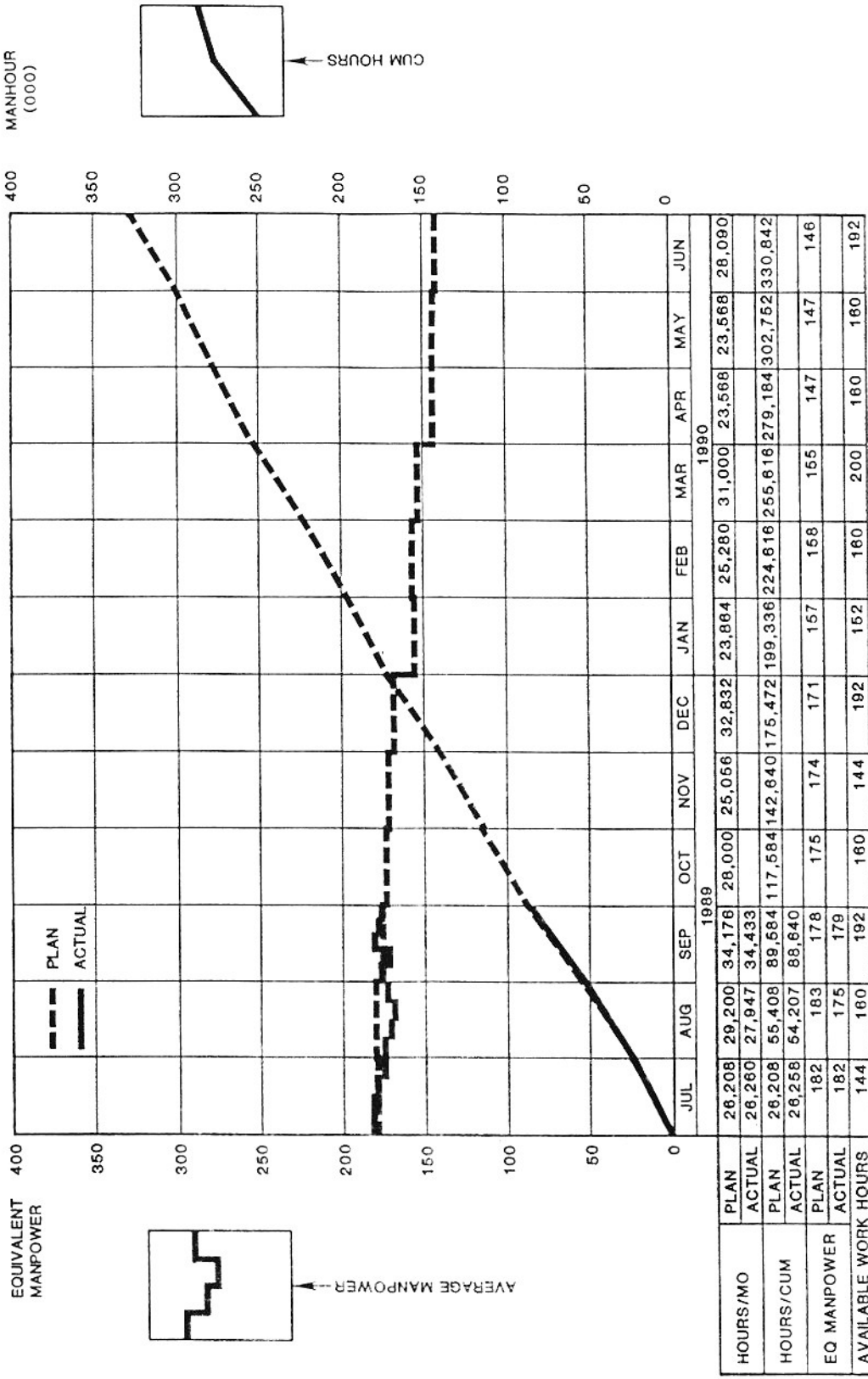
PDCD

CONTRACT PERFORMANCE

REPORT

SIXTH ANNUAL WORK PLAN

PERIOD SEPTEMBER 1989



PDCD MANPOWER

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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1989

1990

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



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

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SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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1990

DESCRIPTION (MHRS)	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	304	274	288	360	256	307
	cumulative		432	912	1,488	1,808	2,096	2,400	2,754	3,042	3,402	3,914	4,221
	ACTUAL	current	249	309	352	0	0	0	0	0	0	0	0
	cumulative		249	558	910	910	910	910	910	910	910	910	910
M ENG. SVCS./SYST. INTEGR.	PLAN	current	2,520	2,960	3,360	2,800	2,232	2,976	2,842	2,832	3,540	2,448	3,130
	cumulative		2,520	5,480	8,840	11,640	13,872	16,848	19,690	22,522	26,062	31,118	34,248
	ACTUAL	current	2,913	2,950	5,135	0	0	0	0	0	0	0	0
	cumulative		2,913	5,863	10,998	10,998	10,998	10,998	10,998	10,998	10,998	10,998	10,998
N COMMUNITY RELATIONS	PLAN	current	288	320	384	320	288	304	152	160	200	160	192
	cumulative		288	608	992	1,312	1,600	1,904	2,136	2,296	2,496	2,816	3,008
	ACTUAL	current	248	265	272	0	0	0	0	0	0	0	0
	cumulative		248	513	785	785	785	785	785	785	785	785	785
P SAFETY	PLAN	current	288	320	384	320	288	304	304	320	400	256	307
	cumulative		288	608	992	1,312	1,600	1,904	2,288	2,608	3,008	3,520	3,827
	ACTUAL	current	200	320	340	0	0	0	0	0	0	0	0
	cumulative		200	520	860	860	860	860	860	860	860	860	860
Q QUALITY ASSURANCE	PLAN	current	432	480	576	320	288	304	274	288	360	288	346
	cumulative		432	912	1,488	1,808	2,096	2,400	2,754	3,042	3,402	3,978	4,324
	ACTUAL	current	338	402	520	0	0	0	0	0	0	0	0
	cumulative		338	740	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260

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LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

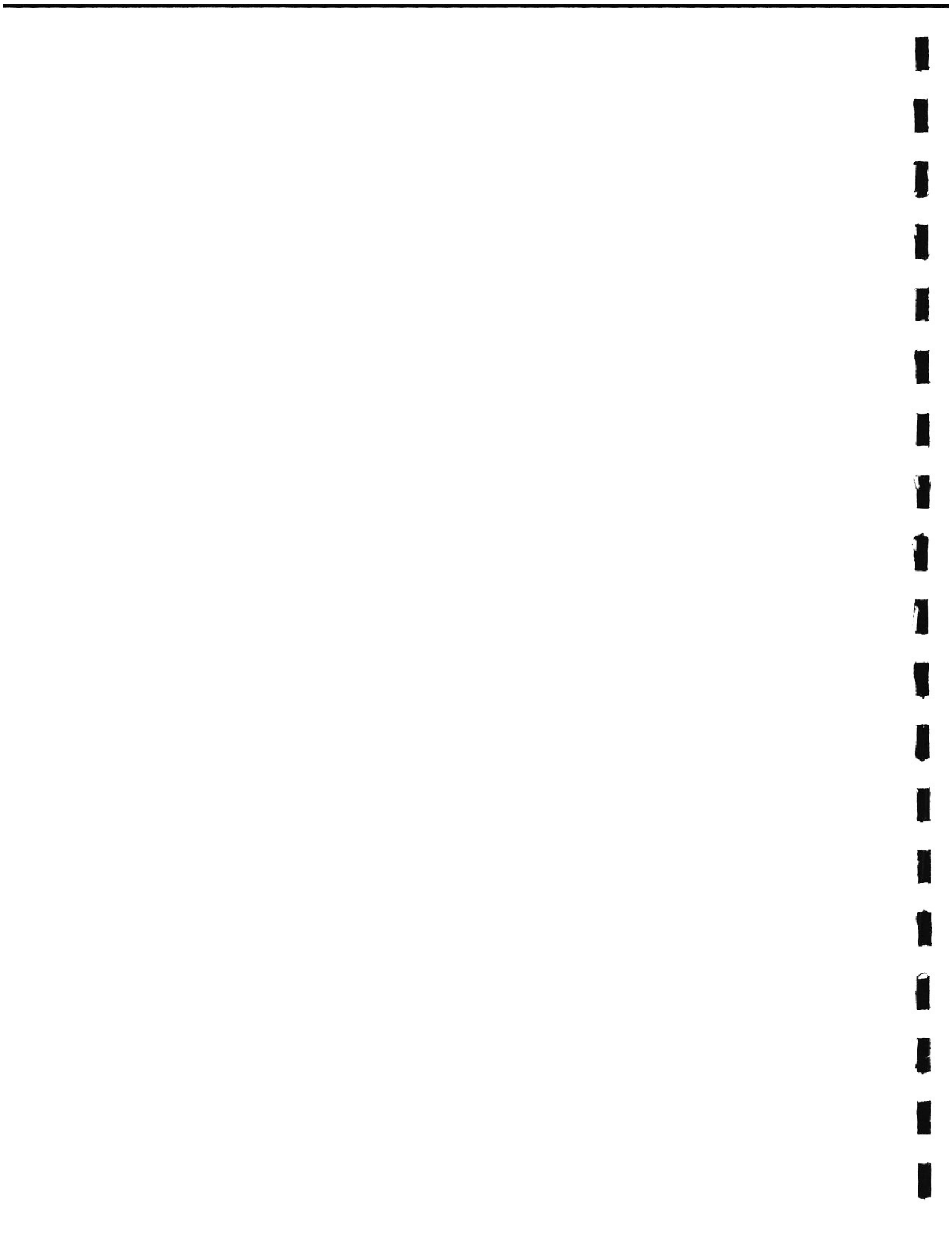
SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 3 OF 3

1989

1990

DESCRIPTION (MHRS)														TOTAL	
MANHOURS BY FUNCTIONAL DEPARTMENT															
R PROJECT ADMIN.	PLAN	current	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
	cumulative	1,440	1,600	1,920	1,600	1,440	1,920	1,383	1,616	1,820	1,536	1,376	1,651	19,302	19,302
	current	1,440	3,040	4,960	6,560	8,000	9,920	11,303	12,919	14,739	16,275	17,651	19,302	0	5,351
	ACTUAL	1,581	1,856	1,914	0	0	0	0	0	0	0	0	0	0	0
S EQUAL OPPORTUNITY	PLAN	cumulative	1,581	3,437	5,351	5,351	5,351	5,351	5,351	5,351	5,351	5,351	5,351	5,351	19,302
	current	288	320	384	320	288	384	0	0	0	0	0	0	0	1,984
	cumulative	288	608	992	1,312	1,600	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984
	ACTUAL	245	272	270	0	0	0	0	0	0	0	0	0	0	0
T LABOR RELATIONS	PLAN	cumulative	245	517	787	787	787	787	787	787	787	787	787	787	787
	current	0	0	0	0	144	0	0	0	0	0	160	0	0	504
	cumulative	0	0	0	0	144	144	144	144	144	344	504	504	504	504
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U LEGAL	PLAN	cumulative	0	0	0	0	0	0	0	0	0	0	0	0	512
	current	0	0	192	0	0	0	0	0	160	0	160	0	0	512
	cumulative	0	0	192	192	192	192	192	192	352	352	512	512	512	512
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL (HOURS)	PLAN	cumulative	0	0	0	0	0	0	0	0	0	0	0	0	0
	current	26,208	29,200	34,176	28,000	25,056	32,832	23,864	25,280	31,000	23,568	23,568	28,090	330,842	330,842
	cumulative	26,208	55,408	89,584	117,584	142,640	175,472	199,336	224,616	255,616	279,184	302,752	330,842	330,842	330,842
	ACTUAL	26,260	27,947	34,433	0	0	0	0	0	0	0	0	0	0	0
TOTAL (HOURS)	PLAN	cumulative	26,260	54,207	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640
	current	26,260	54,207	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640	88,640



SECTION III

**EQUAL OPPORTUNITY
PERFORMANCE**



LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD SEPTEMBER 1989

III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Sixth Annual Work Plan for September measured on the basis of accrued total cost was 24.1%, 4.1% above the 20% goal. The cumulative percentage for the Sixth Annual Work Plan was 24.1%, 4.1% above the 20% goal (Figure 1 on Page 16). The cumulative percentage for the total contract from its inception in July 1984 is 23.5%, 3.5% 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 21%. The Affirmative Action Analysis for women, as indicated in Figure 3 on Page 16, shows 8%, which meets the goal of 8.0%.



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SIXTH ANNUAL WORK PLAN

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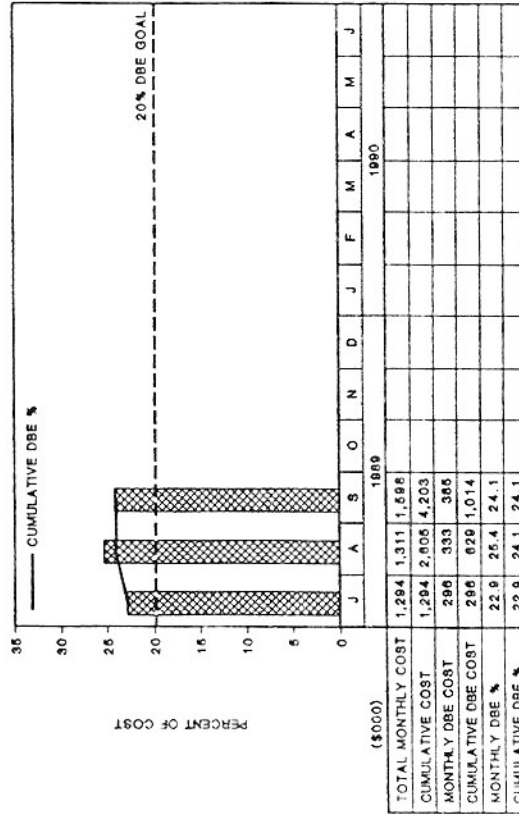


FIGURE 1 - DBE ANALYSIS

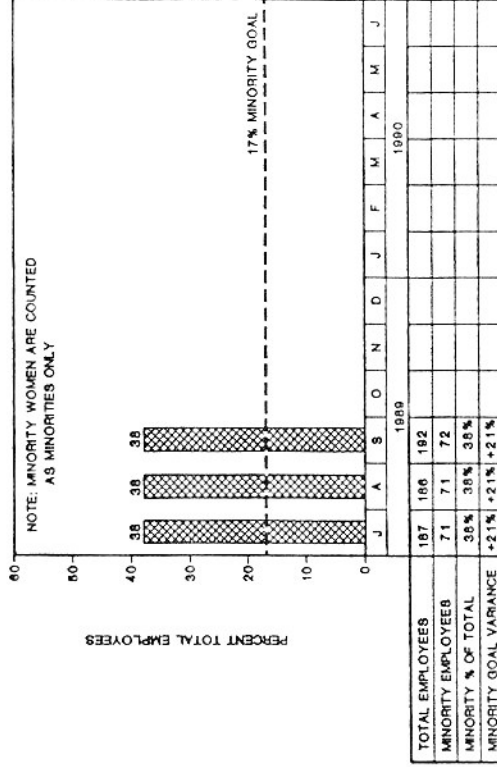


FIGURE 2 - MINORITY AFFIRMATIVE ACTION ANALYSIS

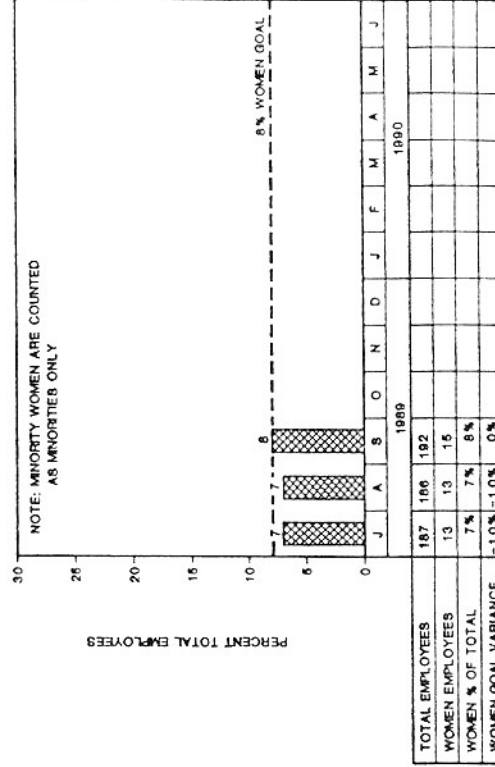


FIGURE 3 - WOMEN AFFIRMATIVE ACTION ANALYSIS

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SECTION IV

SCHEDULE PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 362 submittals were received from the Construction Contractors and 275 were carried over from August. 371 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 (266) are still under review.

Contracts	Carryover From Aug.	No. of Submittals Received in Sept.	Submittals Processed		Submittals Processed In Over 30 Days	Carryover to Oct.
			Within 30 Days			
A112	11	15	15	4	7	
A130	31	27	21	3	34	
A135	25	35	22	8	30	
A135BH	20	7	17	1	9	
A141	17	33	16	15	19	
A145/A145A	23	46	25	5	39	
A146	13	7	8	8	4	
A165	52	67	51	27	41	
A167	33	19	25	9	18	
A171	2	6	6	0	2	
A175	9	13	1	3	18	
A610/A115	14	22	16	1	19	
A612	2	5	7	0	0	
A615	0	1	0	0	1	
A616	9	2	0	1	10	
A620	4	15	10	0	9	
A630	4	6	7	0	3	
A631	0	6	5	0	1	
A640	0	25	5	19	1	
A710	3	2	5	0	0	
A732	1	0	0	0	1	
A740	0	1	1	0	0	
A745	2	2	3	1	0	
	<u>275</u>	<u>362</u>	<u>266</u>	<u>105</u>	<u>266</u>	



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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 A136/100%, Union Station West Entrance and Stage II finish. Commenced review of A760/100%, Signing and Edgelight Procurement.
- o Claims Avoidance Review - Completed Claims Avoidance Review (CAR) of A118, Yard Site Landscaping and A136/100%, Union Station West Entrance and Stage II. Continue CAR of A157, 5th/Hill Station, Stage II, final design. Commenced CAR for A147, Civic Center Station, Stage II, final design and A760/100%, Signing and Edgelights.

Training Programs - No training programs were conducted during the September period.



LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD SEPTEMBER 1989

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD 08-26-89 TO 09-29-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-118	YARD SITE LANDSCAPING	DWGS	CAR		08-31-89	09-15-89	09-26-89		
A-118	YARD SITE LANDSCAPING	SPEC	CAR		08-31-89	09-15-89	09-26-89		
**									
A-136	UNION STATION (WEST ENTRANCE AND STAGE II FINISH)	DWGS	CAR		09-01-89	09-12-89	09-29-89		*RESCHEDULED TO 9-22-89 BY PDCD
A-136	UNION STATION (WEST ENTRANCE AND STAGE II FINISH)	SPEC	CAR		09-01-89	09-12-89	09-29-89		*RESCHEDULED TO 9-22-89 BY PDCD
**									
A-147	CIVIC CENTER STATION (STAGE II)	DWGS	CAR		08-14-89	08-17-89	09-07-89		*RESCHEDULED TO 10-27-89 BY PDCD
A-147	CIVIC CENTER STATION (STAGE II)	SPEC	CAR		08-14-89	08-30-89	10-27-89		*RESCHEDULED TO 10-27-89 BY PDCD
**									
A-157	5TH/HILL STATION (STAGE II)	DWGS	CAR		08-16-89	08-16-89	09-05-89		*RESCHEDULED TO 10-06-89 BY PDCD
A-157	5TH/HILL STATION (STAGE II)	SPEC	CAR		08-16-89	08-22-89	09-05-89		*RESCHEDULED TO 10-06-89 BY PDCD
**									
A-760	SIGNING AND EDGE LIGHTS	DWGS	CAR		09-19-89	10-13-89			*RESCHEDULED TO 10-13-89 BY PDCD

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 09-01-89, MRTC Design Review Schedule

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LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD (Cont'd)

08-26-89 TO 09-29-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-760	SIGNING AND EDGELIGHTS	SPEC	CAR		09-19-89	10-13-89			*RESCHEDULED TO 10-13-89 BY PDCD
					09-19-89	10-13-89			*RESCHEDULED TO 10-13-89 BY PDCD
					09-19-89	10-13-89			*RESCHEDULED TO 10-13-89 BY PDCD

**

10 records listed. 14 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 09-01-89, MRTC Design Review Schedule

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SECTION V

COST PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

SIXTH ANNUAL WORK PLAN

Total incurred costs of \$1,562,248 (Page 26) for CM Direct Services (without General Condition Items) for the period were under the plan of \$1,635,257 by \$73,009. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$22,753 and Labor expenditures (total PDCD and subcontractors) being under the plan by \$50,256.

The cumulative costs for total CM Services (including General Condition Items) incurred through September were \$4,203,416 against a plan of \$4,513,017 resulting in an under plan expenditure of \$309,601 (Page 26).

The September CPR forecasts (Page 26) a total CM Services Estimate At Completion of \$16,838,935 versus a plan of \$16,872,967 for an underexpenditure of \$34,032. Extracting the General Condition Items for separate reporting, the September CPR forecasts a CM Direct Services Estimate At Completion of \$16,046,764 versus a plan of \$16,081,667 for an under plan expenditure of \$34,903.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$36,147 were under the plan of \$64,691 for the period by \$28,544. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of \$792,171 versus a plan of \$791,300, for a projected overplan expenditure of \$871. (Page 25)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$42.89/hr. compared to a plan rate of \$44.68 (-)/hr., resulted in a difference of \$1.79 per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE	IMPACT ON SEPTEMBER COSTS
1.3385416 equivalent staff over plan @ 192	
hours at \$44.68317/hour =	\$ 11,484

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LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

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

	PLANNED	ACTUAL	VARIANCE	%
PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH AUGUST	\$ 1613	\$ 1556	\$ (57)	-3.53%
CURRENT MONTH	985	985	0	0.00%
CUMULATIVE THROUGH SEPTEMBER	\$ 2598	\$ 2541	\$ (57)	-2.19%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH AUGUST	\$ 216	\$ 160	\$ (56)	-25.93%
CURRENT MONTH	109 *	85	(24)	-22.02%
CUMULATIVE THROUGH SEPTEMBER	\$ 325	\$ 245 *	\$ (80)	-24.62%
SUBCONTRACTORS				
CUMULATIVE THROUGH AUGUST	\$ 854	\$ 797	\$ (57)	-6.67%
CURRENT MONTH	542	492	(50)	-9.23%
CUMULATIVE THROUGH SEPTEMBER	\$ 1,396	\$ 1,289	\$ (107)	-7.66%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH AUGUST	\$ 2,683	\$ 2,513	\$ (170)	-6.34%
CURRENT MONTH	1,636	1,562	(74)	-4.52%
CUMULATIVE THROUGH SEPTEMBER	\$ 4,319	\$ 4,075	\$ (244)	-5.65%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH AUGUST	\$ 130	\$ 92	\$ (38)	-29.23%
CURRENT MONTH	64	36	(28)	-43.75%
CUMULATIVE THROUGH SEPTEMBER	\$ 194	\$ 128	\$ (66)	-34.02%
TOTAL CM SERVICES				
CUMULATIVE THROUGH AUGUST	\$ 2,813	\$ 2,605	\$ (208)	-7.39%
CURRENT MONTH	1,700	1,598	(102)	-6.00%
CUMULATIVE THROUGH SEPTEMBER	\$ 4,513	\$ 4,203	\$ (310)	-6.87%
HOURS				
CUMULATIVE THROUGH AUGUST	55,408 hrs	54,207 hrs	(1,201) hrs	-2.17%
CURRENT MONTH	34,176	34,433	257	0.75%
CUMULATIVE THROUGH SEPTEMBER	89,584 hrs	88,640 hrs	(944) hrs	-1.05%

* OFF BY ONE DUE TO ROUNDING

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LOS ANGELES METRO RED LINE

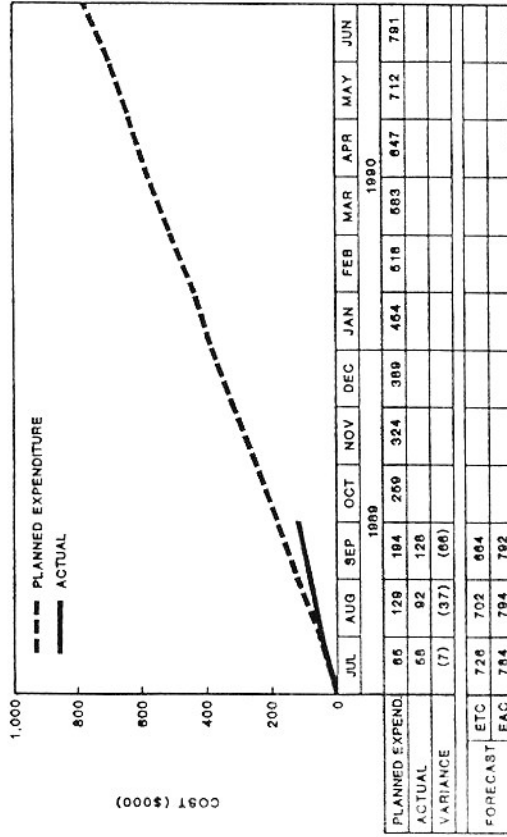
PDCD

CONTRACT PERFORMANCE

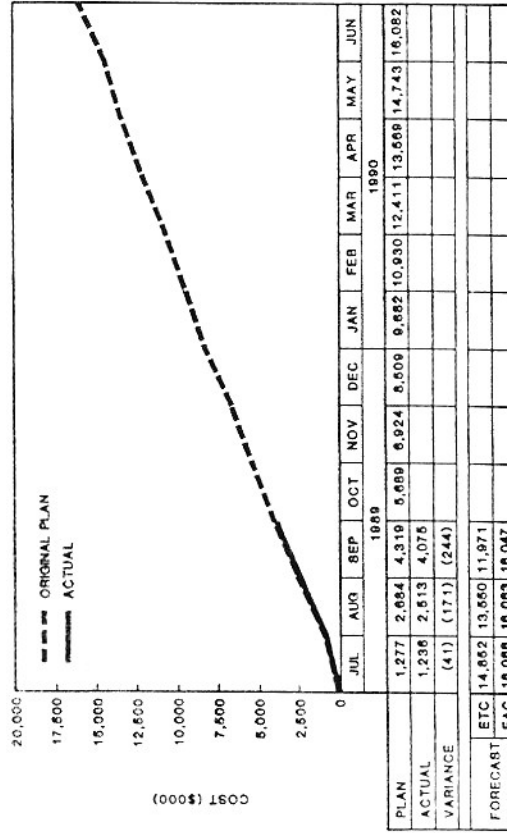
REPORT

SIXTH ANNUAL WORK PLAN

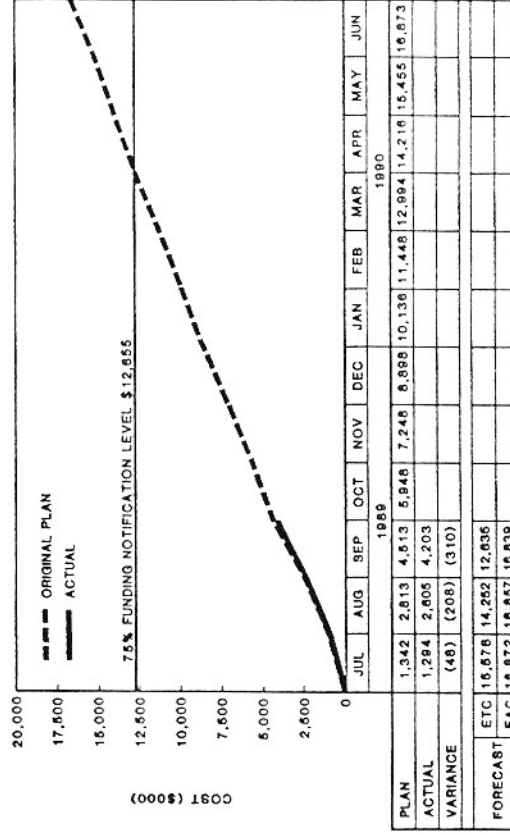
PERIOD SEPTEMBER 1989



GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



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



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

PDCD CM SERVICES - 6TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING SEP 29, 1989 REPORT SUMMARIZED BY RESPONSIBILITY

CONSTRUCTION GENERAL CONDITION ITEMS

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS		ESTIMATE		AT COMPLETION DOLLARS	
	BUDGET	ACTUAL	BUDGET	ACTUAL	TO COMPL	ESTIMATE	RUDGET	ESTIMATE
A RODENT & PEST CONTROL	0	0	0	0	0	5,000	5,000	5,000
B GUARD SERVICES	6,000	5,907	18,000	19,486	1,486	54,000	72,000	73,486
E CLEAN-UP OF FIELD SITES	2,000	0	6,000	3,220	-2,780	18,000	24,000	21,220
G SIGNS AND BARRICADES	0	0	0	0	0	10,000	10,000	10,000
X CONSTRUCTION PHOTO	4,000	5,000	12,000	15,000	3,000	36,000	48,000	51,000
Y TESTING PROGRAM	52,691	25,240	158,075	90,240	-67,835	541,225	632,300	651,465
S/T GEN. COND. ITEMS	64,691	36,147	194,075	127,946	-66,129	664,225	791,300	792,171
								871



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

PDCD CM SERVICES - 6TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING SEP 29, 1989 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS			ESTIMATE TO COMPL			AT COMPLETION DOLLARS		
	BUDGET	ACTUAL	VAR.	BUDGET	ACTUAL	VARIANCE	ESTIMATE TO COMPL	RUN	ESTIMATE	VARIANCE	ESTIMATE	VARIANCE
A PROJECT MANAGEMENT	96,453	93,844	-2,609	249,171	248,257	-914	698,360	968,471	946,617	-21,874	946,617	-21,874
C FAC. CONSTRUCTION	539,958	539,869	-89	1,446,214	1,431,945	-14,269	3,952,570	5,113,259	5,384,515	271,256	5,384,515	271,256
E SYSTEMWIDE CONST	94,608	87,596	-7,012	244,404	214,849	-29,555	904,036	1,147,194	1,118,905	-28,289	1,118,905	-28,289
F GENERAL SERVICES	84,616	70,629	-13,987	218,592	208,081	-10,511	484,186	2,471,628	2,331,713	-139,915	2,331,713	-139,915
K PROJECT CONTROLS	255,767	200,096	-55,671	660,732	550,729	-110,003	1,780,984	2,471,628	2,331,713	-139,915	2,331,713	-139,915
L PROCUREMENT	27,420	17,085	-10,335	70,834	44,520	-26,314	137,651	208,485	182,171	-26,314	182,171	-26,314
M ENG. SVCS./SYST. INTEGR.	172,916	268,392	95,476	456,300	578,626	122,326	1,355,037	1,823,159	1,933,663	110,524	1,933,663	110,524
N COMMUNITY RELATIONS	16,524	10,665	-5,859	42,686	31,599	-11,087	97,931	140,616	129,530	-11,086	129,530	-11,086
P SAFETY	19,380	17,026	-2,354	50,066	42,796	-7,270	143,093	193,159	185,889	-7,270	185,889	-7,270
Q QUALITY ASSURANCE	31,357	22,631	-8,726	81,007	56,433	-24,574	179,794	260,143	236,227	-23,936	236,227	-23,936
R PROJECT ADMIN.	53,457	48,815	-4,642	138,096	133,049	-5,047	424,068	589,161	559,117	-30,044	559,117	-30,044
S EQUAL OPPORTUNITY	16,122	11,275	-4,847	41,649	32,200	-9,449	22,905	83,298	58,105	-25,193	58,105	-25,193
T LABOR RELATIONS	0	0	0	0	0	0	33,713	33,713	33,713	0	33,713	0
U LEGAL	24,000	0	-24,000	24,000	0	-24,000	40,000	64,000	40,000	-24,000	40,000	-24,000
S/T LABOR-REDN & OH	1,432,578	1,387,923	-44,655	3,723,751	3,575,084	-148,667	10,254,348	13,828,669	13,829,432	763	13,829,432	763
1 FIELD OFFICE EXPENSES	55,300	48,424	-6,876	165,900	135,342	-30,558	520,700	663,600	656,042	-7,558	656,042	-7,558
2 OFFICE EQUIPMENT	3,725	1,000	-2,725	11,175	6,171	-5,004	33,525	44,700	39,696	-5,004	39,696	-5,004
3 TRAVEL & RELOCATION	18,141	10,331	-7,810	54,425	26,406	-28,019	183,275	217,700	209,681	-8,019	209,681	-8,019
4 VEHICLES & MAINT.	4,900	3,614	-1,286	14,700	10,737	-3,963	68,100	82,800	78,837	-3,963	78,837	-3,963
5 REPRODUCTION	6,050	4,593	-1,457	18,150	14,030	-4,120	54,450	72,600	68,480	-4,120	68,480	-4,120
7 TELEPHONE & TELEX	5,950	4,435	-1,515	17,850	15,334	-2,516	53,950	71,400	68,884	-2,516	68,884	-2,516
8 COMPUTER OPERATION SUPPT.	2,291	3,035	744	6,875	8,035	1,160	20,625	27,500	28,660	1,160	28,660	1,160
9 GROSS RECEIPT TAX	7,833	9,200	1,367	23,500	23,200	-300	70,500	94,000	93,700	-300	93,700	-300
A FIELD EQUIPMENT	3,975	780	-3,195	11,925	6,579	-5,346	35,775	47,700	42,354	-5,346	42,354	-5,346
S/T ODC'S	108,165	85,412	-22,753	324,500	245,824	-78,676	1,040,500	1,322,000	1,286,334	-35,666	1,286,334	-35,666
W PDCD FEE	57,500	57,500	0	172,500	172,500	0	402,500	575,000	575,000	0	575,000	0
X S/C FEE	37,014	31,413	-5,601	98,191	82,032	-16,159	273,946	355,998	355,998	0	355,998	0
S/T FEES	94,514	88,913	-5,601	270,691	254,532	-16,159	676,446	930,998	930,998	0	930,998	0
S/T CM DIRECT SVCS	1,635,257	1,562,248	-73,009	4,318,942	4,075,470	-243,472	11,971,294	16,081,667	16,046,764	-34,903	16,046,764	-34,903
S/T GEN. COND. ITEMS	64,691	36,147	-28,544	194,075	127,946	-66,129	664,225	791,300	792,171	871	792,171	871
TOTAL CM SERVICES	1,699,948	1,598,395	-101,553	4,513,017	4,203,416	-309,601	12,635,519	16,872,967	16,839,935	-34,032	16,839,935	-34,032
PERCENT OF BUDGET EXPENDED = 25%												
NEGATIVE VARIANCE INDICATES UNDERRUN												

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SECTION VI

ADDITIONAL ACTIVITIES

PERFORMED IN SEPTEMBER

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VI. ADDITIONAL ACTIVITIES PERFORMED IN SEPTEMBER

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 conducted 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).



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- (2) Continued to monitor on-site testing and Smith-Emery test laboratory activities.
- (3) Witnessed system pressure tests for A141 Hydraulic Oil Lines, Wet Standpipe spool and Domestic Water Line.
- (4) Witnessed system pressure test for A175 Fire Lines and A115 Fire Lines.
- (5) Inspected weld joints on A165 Deluge Lines.
- (6) Inspected A130 Post-Tensioned concrete beam for bus-way.
- (7) Monitored Smith-Emery testing of elastomeric pad samples for A171.
- (8) Participated in A112 and A121 contract close-out activities.
- (9) Participated in initial Safety Certification Review Team Audit of Contract A112, and supported initial site visit by RTD departmental representatives.
- (10) Conducted QA review of approximately 398 contractor submittals for various contracts.
- (11) Concluded audit of Flakt, Inc. and National Metals, Inc. for Contracts A740 and A745.
- (12) Supported audit of PDCD/QA Program by DOT Inspector-General.
- (13) Monitored Smith-Emery concrete test reports.

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 A175 regarding Citicon, Inc.
- (3) Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for Contracts A112, A130, A135, A141, A145, A165 and A610/115.

D. Contracts and Procurement

- (1) Issued Request for Quotation for five Personal Computers and related software as approved by District.
- (2) Subsequent to District Approval:
 - o Completed execution of all AWP-6 Amendments for Services Subcontracts with issuance of amendments for Construction Photography and Laboratory Testing and Inspection.
 - o Completed execution of all AWP-6 Amendments for Associate Subcontracts with issuance of amendments for Ochoa & Sillas, D'Leon Consulting Engineers Co. and Transmetrics.
 - o Issued AWP-6 Amendment to Consulting Subcontract with Mueser-Rutledge.



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- o Issued AWP-6 Consulting Subcontract with F. E. Endacott.
- o Issued Consulting Subcontract with Wally B. Evans & Associates.

E. Community Relations

- (1) Coordinated community notifications for 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.).
- (3) Provided assistance to A141, A145, A146 and A165 for problems caused by blocked access, noise and accidents.
- (4) Provided assistance to RTD in responding to media requests and coordinating 13 site visits.
- (5) Processed 45 inquiries/complaints.
- (6) Provided assistance to RTD/GPA in coordination of September 27 Community Awareness Followup Meeting for 7th/Flower area tenants.

F. Safety and Security

- (1) Performed daily site safety, health and security surveillances and prepared written reports for the A112, A130, A135, A141, A145, A146, A165, A167, A171, A175 and A610/A115 construction contracts.
- (2) Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service subcontractors.
- (3) Reviewed and accepted the A631 Safety and Security Program.
- (4) Reviewed and rejected the A631 Safety Representative candidate.
- (5) Revised and distributed the Emergency Response Plan.

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, 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 A141, A145, A146 and A165.



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- (3) Continued coordination of MOS-1 inspections with LADOT.
- (4) Processed a total of 13 Traffic and Utilities related submittals.
- (5) Continued monitoring of groundwater 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 August Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (8) Prepared and submitted August LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (9) Coordinated and assured regulatory compliance for new flows from A130 and A135 dewatering activities.
- (10) Continued checking contractor's control points and layout at various construction sites.
- (11) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175.
- (12) Continued location survey at shop and yards contracts.
- (13) Checked layout and excavation elevation for A135 station.
- (14) Started walkway as-builts survey for AR and AL tunnels (A171).
- (15) Completed tunneling shields locations as-builts in A165 station (A165/A171 Interface).
- (16) Checked manhole elevations for power and storm and sanitary sewers for Baggage Handling Facility parking lot.
- (17) Started review of 47 high utilities claims (A165).

H. Engineering Services

1. Increased monitoring of A145 strut loads when some loads built up to more than 150 percent of design. Continued increased monitoring until loads stabilized.
2. Received A135 geotechnical/environmental report from Contractor and delivered boring logs to MRTC for inclusion in A136 Contract documents.
3. Transmitted Converse Consultants' proposal for A141 hard rock evaluation borings to consultant J.P. Gould for review.
4. Briefed RTD consultant, J.P. Gould, on the A141 claims for hard rock in the tunnels and strut overloads in Civic Center Station.
5. Began collection of detailed data on A141 Civic Center Station construction operation sequencing to be plotted against instrumentation readings.



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6. Compiled and transmitted to RTD consultant, J.P. Gould, various A141 rock property plots for use in evaluating the hard rock claim.
7. Processed 15 field inquiries with MRTC to obtain clarification of design requirements.
8. Responded to 203 requests for information or documentation clarification from various Contractors.
9. Completed final design and claims avoidance review of Contract A136 Union Station West Entrance and Stage II finish.
10. Completed claims avoidance review of Contract A118 Main Yard and Shops landscaping, final design.
11. Continued claims avoidance review of Contract A157 5th/Hill Station Stage II, final design.
12. Commenced claims avoidance review of Contract A147 Civic Center Station, Stage II, final design.
13. Commenced final design and claims avoidance review of Contract A760 Signing and Edgelight Procurement.
14. Continued comprehensive review of electrical embedments on Contract A145.
15. For Contract A112 - Approved 7 Contractor submittals for Shop Test Reports, Certificate of Compliance, Elevation Drawings and Calcs., Wheel Boring, Ceramic Tile, Car Puller, Wheel Truing & Handrail and Loading Dock Bumper Layout.
Approved as Noted 5 Contractor submittals for Car Repair Facility Electrical and Mechanical Details, Test Procedures Wheel Bore/Press, Test Outline, AC Controls and Progress Report.
Reviewed for Record Only 7 Contractor submittals for warranties.
16. For Contract A130 - Approved 19 Contractor submittals for Revised Calculations, Fire Protection Sprinkler System, Cut & Cover Structure, Rebar Details, Certificate of Compliance for Casings, Weld procedure, 5000 PSI Concrete Mix, Rebar Mill Certificates, Welding Procedures & Welder Qualifications, and Tieback Anchor Proof Test Results.
Approved as Noted 2 Contractor submittals for Welding Procedures, Welder Qualifications and Steel.
Rejected 2 Contractor submittals for Revised Part II Schedule and Tieback Anchor Performance Test Results.
17. Reviewed for Record Only 1 Contractor submittal for Tieback Anchor Proof Test Results.
For Contract A135- Approved 10 Contractor submittals for 30" RCP Storm Drain, Revised Anchor Schedule, Time Clock, Welder Qualifications, Rebar Mill Certificates and Beam/Slab Stirrup.
Approved as Noted 15 Contractor submittals for Dewatering Flowmeters, RCP Storm Drain, Lift Drawings, Rebar Drawings, Circuit Breaker/Magnetic Lighting Control Transformer, Retaining Walls, East Entrance Portal, Mechanical Embeds, Passenger Ramp Covers, Monthly Progress Status Report, Railroad Bridge Passenger Ramp and Support @ Existing Passenger Tunnel.
Rejected 4 Contractor submittals for Geotechnical & Environmental Assessment, Lift Drawings, and Electrical Embeds.



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- Reviewed for Record Only 1 Contractor submittal for Electrical Embeds.
18. For Contract A135BH - Approved 14 Contractor submittals for Welding Procedures, Piping, Toilet Rooms, Fire Door, Drywall/Plaster, Carpet, Toilet Accessories, Steel Windows, Bus Shelter, Tile and Paint.
Approved as Noted 4 Contractor submittals for Fire Valve Pit, Roof Steel, Support Beam and Lighting Support System.
19. For Contract A141 - Approved 10 Contractor submittals for Rebar Drawings, Concrete Lift Drawings, Crosspassage and Sump Relocations and Reinforcement Mill Reports.
Approved as Noted 14 Contractor submittals for Shoring Data and Drawings, Form Work Drawings & Design Calcs., Sump Pump, Concrete Lift Drawings, Traffic Control Plans and Mechanical and Electrical Equipment Frame.
20. Rejected 7 Contractor submittals for Excavation Support Designs, Controlling Traffic, Monthly Status & Narrative, Tunnel Crosspassage Support and Basic Electrical Materials & Methods
For Contract A145 - Approved 4 Contractor submittals for Welder Certification, Rebar Drawings, and Invert Dowels.
Approved as Noted 21 Contractor submittals for Hill Street Detour, So. Entrance Bracing, Deck Beams, Rebar Drawings, Telephone Duct Relocation, Concrete Inserts, Electrical Handholes, Lift Drawings, Forms for Roof Slabs, Rebar Splice Proposal, and Pile Embedment.
Rejected 1 Contractor submittal for Excavation Support.
Reviewed for Record Only 4 Contractor Submittals for Certifications for Tests-Hydraulic Lines, Monthly Progress Status Report and Tests Gauge Certifications.
21. For Contract A146 - Approved 7 Contractor submittals for Invert Lift Drawings, Wall & Arch Lift & Reinforcement Drawings & Embedded Conduit Schedule, Tunnel Lighting Fixture, Ballast, Lamps and Cover Plates.
Approved as Noted 8 Contractor submittals for Traffic Control Plan, Invert Lift Drawings, Mechanical/Electrical Arrangement Crosspassages, Misc. Metal Work, Crosspassage Support Calcs., Metal Junction & Pull Boxes W/Gutters, Data-Panels, Switches & Transformers and Sump Pump Control Panel.
Review for Record Only 1 Contractor submittal for Revised Part II Schedule.
22. For Contract A165 - Approved 33 Contractor submittals for Life Drawings for Base Slabs, Walls, Columns, Roof Slabs, and Foundations, Metal Conduit Tags, and Rebar Drawings for Base Slabs, Walls, Columns, Roof Slabs, Exhaust Duct and Shaft.
Approved as Noted 39 Contractor submittals for Re-shore of Cap Beam, Column Ultrasonic Weld Inspection, Monthly Narrative, Accelerated Rev. Part II Schedule, Metal Conduit Tags, Rebar Drawings for Walls, Base Slabs, Platform, Elevator Shaft & Stairs, and Lift Drawings for Mezzanine Slabs, Roof Slab, Walls, Exhaust Duct, Walkways and Platform.



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- Rejected 3 Contractor submittal for Narrative & Update Plot, Ancillary Slab Lift Drawing and Base Slab Lift Drawing.
Reviewed for Record Only 3 Contractor submittals for Lift Drawing Key Plans, and Water Quality Discharge Log Sheets.
23. For Contract A167 - Approved 14 Contractor submittals for Safety Manual, Concrete Mix Designs, Curing & Sealing, Granite, Masonry Grout, Certificates of Compliance for Cement, Rebar & Motors, Plan Table & Supervisors Room, Neoprene Gasket, Filler & Expansion Joint Filler, Sealants & Caulking, Hollow Metal Doors & Frames, Steel Ceiling and Acoustical Insulation, Tile Color Sample, Toilet Accessories and Sprinkler Blow-Off Cap.
Approved as Noted 14 Contractor submittals for Deep Seal, 5 Star Grout, Stainless Steel, Hardware Schedule, Balanced Doors, Engineered Glass Walls, Alternate Tiles, Quarry Tile, Submersible Sump Pumps, Fire Protection Sprinkler System, Panelboard, Lighting Fixtures, Control Junction Box and Cable Trays.
Rejected 6 Contractor submittals for Narrative & Schedule Part II, Concrete Mix Design, Automatic Transfer Switch, Dry Type Transformer and Terminal Box Enclosure.
24. For Contract A171 - Approved 2 Contractor submittals for Tunnel Lighting and Steel Divider Detail.
Approved as Noted 4 Contractor submittals for Monthly Part II Schedule Updates, Narrative & Progress Reports and Miscellaneous Metal Work.
25. For Contract A175 - Approved 2 Contractor submittals for Type "L" Sleeve and Under Platform Exhaust Shaft.
Approved as Noted 2 Contractor submittals for Reinforcing Steel and S. Passageway- Elevator Shaft Details.
26. For Contract A610/A115 - Approved 13 Contractor submittals for Frames and Covers, #8 Crossover-Ballasted, Maganese Steel Center Crossing Frog, Beveling of Rail Ends, Inspection Procedures: Radiographic, Magnet Particle, Brinell Hardness & Ultrasonic & Personnel Qualifications, Backflow Valve, Double Crossovers-Direct Fixation, Wilshire/Alvarado Double Crossover, Air Release Assem., SP. Plate Detail-19'-11" Crossing, Closure and Buffer Rails No. 8 T.O. and Rowley Jack Stand Valve Support.
Approved as Noted 3 Contractor submittals for Procedure for CRW Destressing; YD. Rail Laying Flow Diagram & Data Sheets for Mechanical Vibrators, Monthly Progress Status Report and SP. Plates #10 Frog.
Rejected 1 Contractor submittal for Bumping Posts.
27. For Contract A612 - Approved as Noted 5 Contractor submittals for Test Procedures for Support Insulators, Installation Manual, Maintenance Manual, Insulator Qualification Test report and Insulator Production Test Report.
Approved as Noted 1 Contractors submittal for Qualification/Production Reports.
Rejected - 1 Contractor submittal for Test Program Plan Composite Contact Rail.



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28. For Contract A616 - Approved 1 Contractor submittal for Production Test Results-Elastomer.
29. For Contract A620 - Approved 6 Contractor submittals for Reliability Allocation, Maintainability Test Plan, ATC Vehicle Carried Subsystem-New P.C. Boards and Factory Acceptance Tests-Speed Factors.
Approved as Noted 2 Contractor submittals for Bar Chart Schedule & Narrative and Track Circuit Qualification Test.
30. Rejected 1 Contractor submittal for Cable Production Test Results.
Reviewed For Record Only 1 Contractor submittal for Yard Track & Cable Plan (Table).
For Contract A630 - Approved 4 Contractor submittals for 38KV AC Switchgear, 750V DC Switchgear, AC-DC Conversion Equipment and Metal Enclosed Bus Qualification Test Reports.
Approved-as-Noted 3 Contractor submittals for Quality Assurance Program, 38KV AC Switchgear and Factory Test Procedures for Switchgear & Bus Duct.
31. For Contract A631 - Approved 3 Contractor submittals for Safety & Accident Prevention Manual, Cable Tray Drawings and Factory Test Procedures.
32. Rejected 2 Contractor submittals for Cable Trays and Electrical Insulated Flooring.
For Contract A640 - Approved 17 Contractor submittals for Control Panel Arch. Interface Documentation, Gas Monitoring & Seismic Subsystems, Gas Monitoring Display and Control Location Drawings, Color Coord.-Lighting Scheme, Pre. Design Review of Motorola Software, Inventory of Scada Hardware and Closed Circuit T.V. Subsystem.
Approved as Noted 7 Contractor submittals for Documentation of Software Standards, CCTV, CTS Telephone Subsystem, Master Station: Table, Software Overview, Standard Software Documentation & Manuals and Rail Control Center Subsystem.
33. For Contract A710 - Approved 4 Contractor submittals for Wiring Diagrams, Doors & Frames for Elevator Hoistway and Monthly Progress & Schedule Update.
Approved as Noted 1 Contractor submittal for Escalator Wiring Diagrams.
34. For Contract A740 - Approved 1 Contractor submittal for Monthly Progress Report & Schedule Update.
35. For Contract A745 - Approved 2 Contractor submittals for Fan Curves and Monthly Progress Report & Schedule Update.
Approved-as-Noted - 2 Contractor submittals for O & M Manual.

I. PROJECT CONTROLS

- (1) Processed Change Requests: A112-CR-132, A112-CR-139, A130-CR-037, A130-CR-039, A135-CR-058, A135-CR-059, A141-CR-118, A141-CR-124, A145-CR-153, A146-CR-038, A165-CR-085, A165-CR-087, A165-CR-088, A165-CR-091, A165-CR-094, A167-CR-008, A167-CR-009, A167-CR-010, A171-CR-030, A175-CR-055, A175-CR-056,

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- A610-CR-074, A610-CR-077, A610-CR-079, A612-CR-002, A620-CR-029, and A740-CR-011.
- (2) Processed Change Notices: A135-CN-023, A141-CN-059, A141-CN-072, A141-CN-073, A141-CN-074, A141-CN-075, A165-CN-035, A165-CN-036, A167-CN-008, A171-CN-015, A175-CN-034, A175-CN-035, A610-CN-037, A610-CN-038, and A610-CN-039.
- (3) Processed Change Orders: A112-CO-057, A112-CO-059, A112-CO-061, A130-CO-027, A130-CO-029, A130-CO-030, A130-CO-031, A135-CO-021L.1, A135-CO-008a, A135-CO-0026, A135-CO-027, A135-CO-028, A135-CO-029, A135-CO-030, A141-CO-051, A141-CO-052PTI, A141-CO-053, A141-CO-054, A141-CO-055, A141-CO-056PTI, A141-CO-057, A141-CO-058, A141-CO-059, A145-CO-043B, A145-CO-096, A145-CO-097, A146-CO-009PT2, A146-CO-211, A146-CO-021L, A146-CO-021M, A146-CO-27 PTI, A146-CO-028, A146-CO-030, A165-CO-001A, A165-CO-017B, A165-CO-017C, A165-CO-020, A165-CO-022, A165-CO-023, A165-CO-025a, A165-CO-030, A165-CO-032, A165-CO-047, A165-CO-048, A165-CO-049, A165-CO-050, A165-CO-051, A165-CO-052, A167-CO-002PTI, A167-CO-003, A175-CO-001, A175-CO-050, A610-CO-14C, A610-CO-14e, A610-CO-054, A610-CO-54PTI, A610-CO-056, A610-CO-057, A610-CO-058, A610-CO-059, A610-CO-060, A610-CO-061, A610-CO-062, A615-CO-002, A620-CO-010, A620-CO-011, A620-CO-013, A620-CO-014, A640-CO-004, A650-CO-003, A740-CO-006, A745-CO-005, and A755-CO-001.
- (4) Processed through TRACS, 43 executed Change Orders: A130-CO-031, A135-CO-002S, A135-CO-002ZB, A135-CO-020, A135-CO-029, A135-CO-030, A141-CO-033B, A141-CO-049, A141-CO-051, A141-CO-052, A141-CO-054, A141-CO-057, A141-CO-058, A144-CO-015A, A145-CO-021A, A145-CO-094, A145-CO-095, A145-CO-096, A46-CO-021L, A146-CO-021L, A146-CO-021M, A165-CO-021B, A165-CO-030A, A165-CO-032E, A165-CO-38A, A165-CO-001A, A165-CO-023, A165-CO-042, A165-CO-045, A165-CO-046, A165-CO-047, A175-CO-024B, A610-CO-014C, A610-CO-040A, A610-CO-044, A610-CO-054, A610-CO-054A, A610-CO-057A, A610-CO-059, A620-CO-012, A620-CO-013, A640-CO-005, and A710-CO-006.
- (5) Processed Potential Claims: A112-PC-009, A112-PC-016, A112-PC-130, A141-PC-149, A145-PC-149, A145-PC-141, A146-PC-046, A165-PC-106, and A165-PC-116.
- (6) Processed Change Technical Evaluations: A112-CR-132, A135-CR-053, A135-CR-057, A141-CR-124, A144-CR-026, A146-CR-039, A165-CR-087, A165-CR-088, A175-CR-054, A175-CR-056, A175-CR-059, A610-CR-070, A610-CR-077, A610-CR-082, A630-CR-005, A640-CR-017, A640-CR-019, and A650-CR-014.
- (7) Processed Force Account Change Packages: A130-CO-026, A135-CO-006, 135-CO-006A, and A135-CO-030.
- (8) Processed Monthly Payment Estimates for 20 Contracts: A112, A130, A135, A141, A144, A145, A146, A165, A167, A171, A175, A610/A115, A612, A616, A620, A640, A710, A740, A745, and A755.
- (9) Completed a close-out reconciliation on 6 Force Account Change Orders: A145-CO-031, A146-CO-021H, A146-CO-030, A165-CO-020, A165-CO-025, and A165-CO-030.
- (10) Reviewed Contractor Monthly Progress Reports.
- {11} Prepared Scheduling Inputs to RTD Monthly Status Report.
- {12} Approved as noted A165 Part II Schedule Submittal.



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- (13) Approved as noted A167 Part II Schedule Submittal.
- (14) Approved A171 Part II Schedule revisions.
- (15) Reviews in process for Part II Schedule revisions from A130 and A145.
- (16) Rejected A175 Part II Revised Schedule.
- (17) A-130-CR-026A Completed estimate for revised communication duct bank connection to LAFD and PacBell.
- (18) A-130-CR-031 Prepared estimate for revisions to incoming electric service room.
- (19) A-130-CR-038 Reviewed scope of work and contractors proposal for extended depth of 48" diameter drilled piers at Busway Bent 4.
- (20) A-135-CR-001 Completed estimate for revised east entrance at Union Station.
- (21) A-135-CR-004 Continued to review proposals for changes at LAUPT Baggage Handling Facilities and attended negotiations.
- (22) A-135-CR-011 Prepared quantity takeoff for west entry changes.
- (23) A-135-CR-032 Prepared estimates, reviewed proposals, and negotiated mechanical, electrical and miscellaneous changes, LAUPT Police Room.
- (24) A-135-CR-059 Prepared estimate for enlarged opening in concrete wall.
- (25) A-135-CR-051, A-141-CR-120, A-145-CR-147, A-165-CR-033, A-171-CR-05 Reviewed changes and prepared estimates for emergency telephone blockouts.
- (26) A-141-CR-011 Access delay Union Station, prepared estimates, evaluated contractor proposals and participated in negotiations.
- (27) A-141-CR-040 Completed estimate for change to incoming electric service room.
- (28) A-141-CR-100 Prepared estimate for elevator equipment room changes.
- (29) A-141-CR-109 Prepared estimate for changes to unknown 3" water main, southwest entrance.
- (30) A-141-CR-095, A-165-CR-048 Prepared estimates for increased escalator wellway rough openings.
- (31) A-165-CR-075 Began estimate for combined wet standpipe and sprinkler system.
- (32) A-165-CR-091 Prepared estimate for 4" GRS conduit in Roosevelt Building.
- (33) A-167-CR-009 Completed estimate for revised metal partitions at BRS.
- (34) A-620-CR-029 Prepared estimate for access to yard Control Tower Cable Tray.
- (35) Assisted Resident Engineers in developing R.O.M. estimates and reviewed Contractor proposals.



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J. CM Meetings in September 1989

Date	Agency/Company	General Subject
August 28	MRTC	A141. Evaluation of rock hardness.
August 29, 30	RTD	A-141-CR-011. Delayed access, reviewed concrete schedules and batch plant file lease, to establish RTD position.
August 31	RTD/TSG	A-141-CR-011. Delayed access, negotiations for settlement misc. overhead and fixed service costs.
September 1	RTD/Granite	A-135-CR-048. Negotiations settlement of increased wellway rough opening.
September 6	RTD/OCPM	A187 Pre-Bid Conference
September 6	RTD, MRTC, LACoSD, LAPD, BAH, RTD Police	General Project Security
September 6	RTD/MRTC	Biweekly Program Control Meeting
September 6, 13, 20, 27	LADOT	Weekly LADOT Field Inspection (MOS-1)
September 7	RTD/TSG	A141-CR-011. Delayed access, negotiated settlement on project management labor and misc. items. Outlined standby equipment and subcontract phases.
September 8	RTD/GPA	Community Relations Coordination Meeting
September 11	RTD/Congressman Drier	Metro Red Line briefing/site visit
September 11	DIA, CEC	Management Safety Meeting
September 12	San Fernando Valley Bureau of Engineers	Metro Red Line briefing/site visit
September 12	CEC	Environmental Control Requirements (A610/A115)
September 12	RTD/Granite & Sub	A165-CR-091. Conduit in Roosevelt Building, negotiation
September 12	RTD/TSG	A141-CR-011. Access delay negotiated settlement field service cranes and deck maintenance. Reviewed standby equipment rate development and agreed to life of major items.



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September 13	RTD/TSP	A-135-CR-004. LAUPT Baggage Handling. Negotiate change to fire proofing, review scope and quantities for parking lot.
September 13	RTD	A141-CR-011. Delayed access, review questions and development of escalation, overhead and profit.
September 13	RTD	A141-CR-011. Access delay reviewed status of negotiations to date.
September 13	MRTC, Converse, Gould	A141 Claims for Strut Overloads and Rock Hardness
September 13, 28	Contractors, DIA, RTD, Argonaut, LAFD Cal-OSHA, DIA RTD/TSG	Project Safety Review
September 14		MOS-1 Mandated Safety Inspections
September 14		A-141-CR-011. Access delay negotiation for equipment standby, revised contractor proposal
September 16	APTA	Metro Red Line briefing/site visit for 8 members of APTA.
September 18	RTD/TSG & Sub.	A141-CR-040. Negotiated settlement of incoming electric service room changes.
September 18	RTD/TSP	A135-CR-054. LAUPT Baggage Handling negotiations for parking lot changes.
September 19	RTD/TSG	A-141-CR-054. Negotiated settlement curbs at emergency fan rooms.
September 19	RTD/Granite	A-165 Review proposed value engineering for unistrut material change.
September 19	RTD/L.A. Coun. Braude. B. McCarley, CLA's Office LADOT RTD, DIA	Metro Red Line briefing/site visit
September 19		WTCP - Phase IV (A130). Review
September 19, 27		Phase II Specification Review. Revise Construction Safety & Security Manual.
September 20		Metro Red Line briefing/site visit
September 20	L. A. City Planning Dept. RTD	A-141-CR-011. Access delay, review District position on escalation, subcontracts, home office, profit and items remaining to be settled.



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September 20	RTD/TSP & Sub.	A-135-CR-052. Reached agreement on scope of work and electrical quantities for LAUPT Baggage Police Room.
September 20	RTD/MRTC	Biweekly Program Control Meeting
September 20	MRTC	A145 Strut Load Data
September 21	San Fernando Valley Bureau of Engineers	Metro Red Line briefing/site visit
September 21	RTD/TSG	A141-CR-011. Access delay, negotiated settlement for tunnel equipment standby, taxes and insurance and reached agreement on escalation.
September 21	DOT-IG	Audit Of PDCD Quality Assurance
September 22	RTD/TSP	A130-CR-038. Extended depth of 48" diameter piers underpinning Busway Bent No. 4, review scope of work and contractor proposal.
September 25	RTD/L.A. Coun. Yaroslavsky	Metro Red Line briefing/site visit
September 25	RTD, MRTC	A145 Strut Load Data and A141 Strut Overload Claim
September 25	TSG, Wagner	A141 Strut Removal
September 25	MRTC	A130 Tunnel Shield
September 26	SCAG	Metro Red Line presentation
September 26	Fishbach & Moore	WTCP A631
September 26	EPA	Groundwater Dewatering Operations
September 26	DIA	A130/A135/A141
September 26	Shelton Livingston Medical	Additional Medical Facilities for MOS-1.
September 26	MRTC	A141 Strut Removal
September 27	Flakt, Inc.	Audit of Flakt
September 28	RTD	A-141-CR-011. Access delay review reinforcing steel subcontractor proposal, audit report and PDCD estimate.
September 28	RTD	Stage I, Stage II Access Definitions
September 28	DOT-IG	Audit Of PDCD Quality Assurance



SECTION VII

SUMMARY OF ACTIVITIES

PLANNED FOR OCTOBER

MTA LIBRARY



LOS ANGELES METRO RED LINE

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VII. SUMMARY OF ACTIVITIES PLANNED FOR OCTOBER 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 for systems contracts.
- (4) Continue review of Project QA Manuals.
- (5) Continue review of contractor submittals.
- (6) Conduct QA program audits of Systems contracts.
- (7) Continue participation in contract closeout activities for Contact A-112.

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 Purchase Order(s) as appropriate after receipt and evaluation of quotations for five PC's and related software.



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- (2) Issue Requests for Quotations for estimated annual requirements for office supplies and paper products.
- (3) Submit request for District approval of Consulting Subcontract with E. D. Greenawalt for estimating services and upon receipt of approval, issue Subcontract.

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/Government and Public 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/GPA in coordinating noon hour construction briefings for the community.
- (6) Update CR tenant mailing list, emergency contact information and CR merchant files.
- (7) Continue to assist RTD with site visits and media requests.

F. Safety and Security

- (1) Continue to monitor safety, health and security activities on all active construction sites.
- (2) Provide specialized underground safety training/indoctrination for PDCD staff, SCRTD, MRTC and visitors.
- (3) Continue to monitor activities of the Security Guard Service and the Site Clean-up Service subcontractors.
- (4) Upon receipt, review A620 Safety and Security Plan and the candidate for Safety Representative.
- (5) Upon receipt, review A631 candidate for Safety Representative.
- (6) Continue work on revisions/modifications to specifications and CSSM for Phase II.

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,



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A740, A745, A750 (4984, 4986, 4988) and A795; monitoring of Master Agreement work and submittal reviews.

- (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 A141, A144, A145, A146, A165, A171 and A175.
- (5) Assure regulatory compliance for new discharges from A130 and A135 dewatering.
- (6) Continue monitoring Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
- (7) Prepare and submit September Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (8) Prepare and submit September LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (9) Continue to monitor instrumentation, building and ground settlement marks for various contracts.
- (10) Continue to check Contractor's control points and layout.
- (11) Continue to perform survey tasks as requested by RES.
- (12) Continue to perform as-built survey of tunnels for Contracts A141 and A146.
- (13) Continue location surveys in shop and yards contracts.
- (14) Continue to check slab pours for Contracts A141, A165 and A175.
- (15) Perform control survey through AR and AL's tunnels (A171).
- (16) Complete review of High Utilities Claims (A165).

H. Engineering Services

- (1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
- (2) Compile report on A145 geology and instrumentation for the A141 Design Criteria Verification Study, Task B.
- (3) Complete collection of data on A141 Civic Center Station construction operation sequencing to be correlated with instrumentation readings.
- (4) Continue to process Constructor's submittals for Contracts A112, A130, A135, A135BH, A141, A145, A146, A165, A167, A171, A175, A610/A115, A612 A615, A616, A620, A630, A640, A710, A732, A740, A745, A750, and A795.
- (5) Continue production of A161 as-built drawings.



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- * (6) Complete claims avoidance reviews for Contract A147, Civic Center Station, Stage II and Contract A157, 5th/Hill Station Stage II.
- * (7) Complete final design and claims avoidance reviews for Contract A760, Signing and Edgellight Procurement.

I. Project Controls

- (1) Process Monthly Payment Estimates for all active contracts.
- (2) Process all the executed Change Orders through TRACS.
- (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 A130 and A145.
- (7) Review A631 Part II Schedule Submittal.
- (8) Prepare quantity update to Level 3 Schedule.

* See Page 44.



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DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS 09-30-89 TO 10-27-89

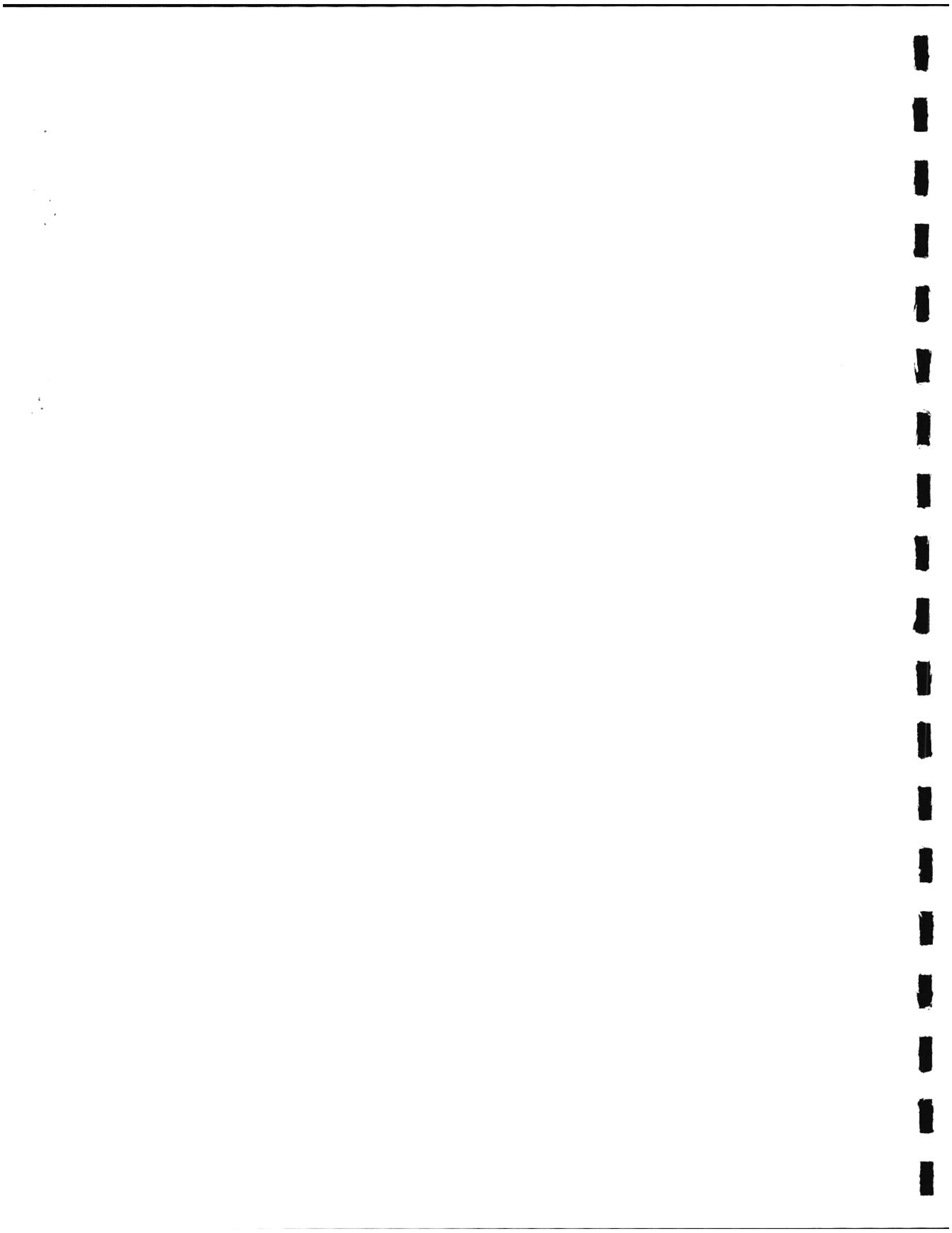
Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-147	CIVIC CENTER STATION (STAGE II)	DWGS	CAR	08-14-89	08-17-89	10-27-89			*RESCHEDULED TO 10-27-89 BY PDCD
A-147	CIVIC CENTER STATION (STAGE II)	SPEC	CAR	08-14-89	08-30-89	10-27-89			*RESCHEDULED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

6 records listed. 8 values listed.

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

NOTE : Based on 09-01-89, MRTD Design Review Schedule

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SECTION VIII

SUBCONTRACTOR/CONSULTANT

STATUS

MTA LIBRARY



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

POCD

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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

SEPTEMBER 29, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
1-SC-3369-1	BETTER PERSONNEL EMPLOYMENT SERVICES	08/07/89	04/12/89	06/13/89	07/20/89	06/16/89	06/16/89	06/21/89	07/27/89	\$415,724	07/27/89	SIXTH AWP
2-SC-3369-1	CONSTRUCTION CONTROL 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 & 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 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

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

SEPTEMBER 29, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
9-SC-3369-1	NORTH PACIFIC 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 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 CONSULTING ENGINEERS (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/ 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 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	SURWAY TERMINAL BLDG (A145/148 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

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CONTRACT PERFORMANCE
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PERIOD SEPTEMBER 1989

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

SEPTEMBER 29, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
35-SC-3369-1	MARY & SOX MAINTENANCE (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 ENGINEERS CO.											
	AMEND. NO. 1	08/07/89	N/A	N/A	N/A	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 (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		\$40,750		FUNDS INCREASE
		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
43-SC-3369-1	F.E. ENDACOTT (CONSULTING AGREEMENT)											
		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





SECTION IX

CONSTRUCTION PROGRESS PHOTOS



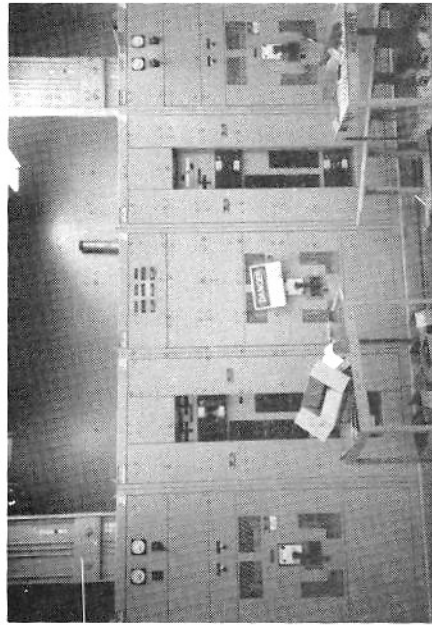
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

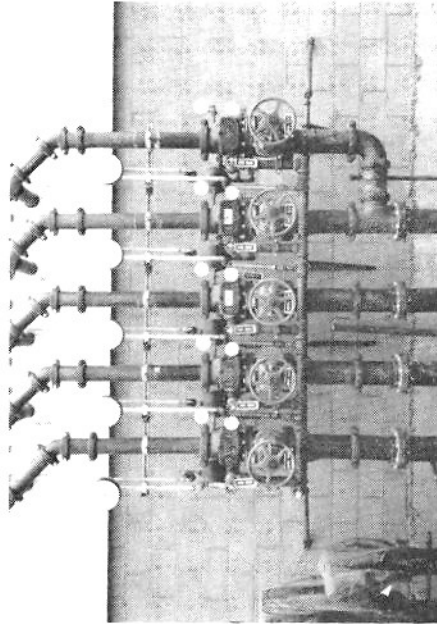
PDCD

PERIOD SEPTEMBER 1989

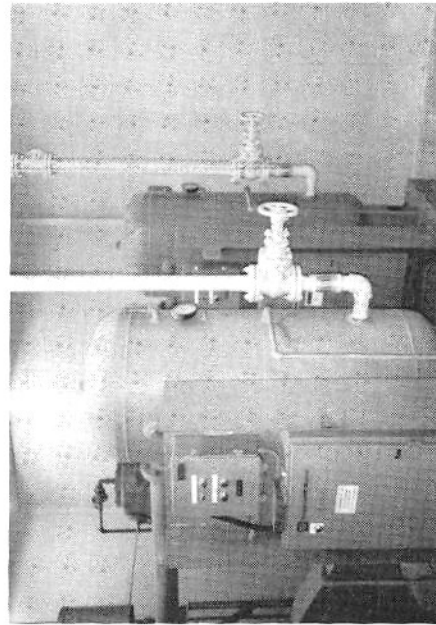
MAIN SHOP BUILDING CONTRACT A112



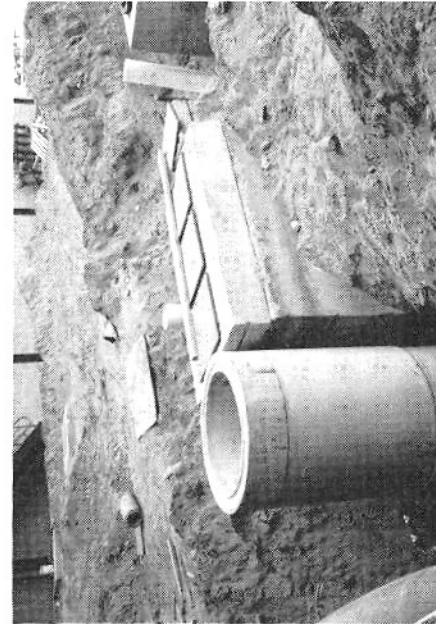
MAIN ELECTRICAL SWITCH BOARD,
MAIN SHOP BUILDING



FIRE PROTECTION WET STAND
PIPE SYSTEM, COMPLETE



TWO(2) AIR COMPRESSORS INSTALLED IN
ROOM #102, MAIN SHOP BUILDING



GREASE SEPARATOR INSTALLED AND
READY FOR BACKFILL



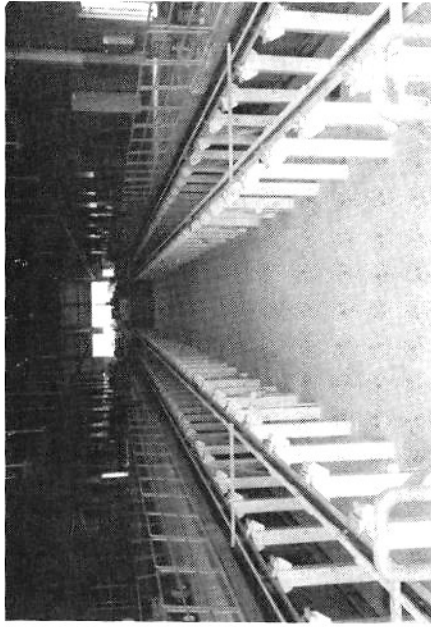
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

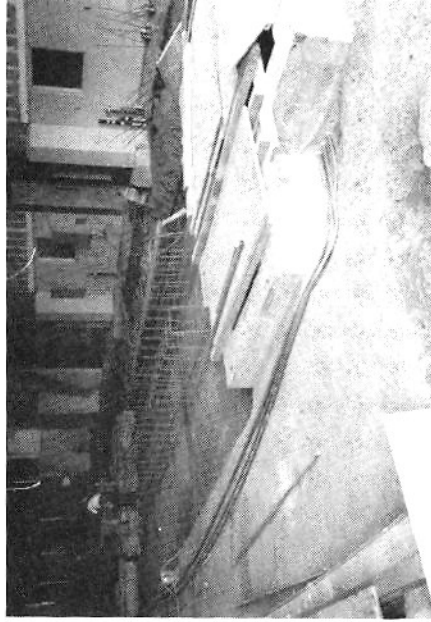
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PERIOD SEPTEMBER 1989

MAIN SHOP BUILDING CONTRACT A112 (Cont'd)



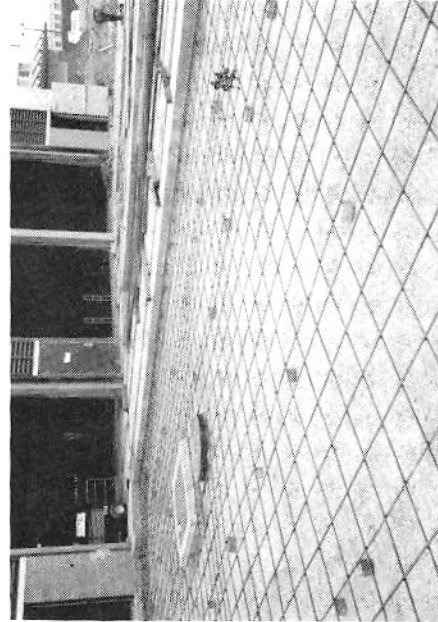
SERVICE & INSPECTION PIT WITH
RAIL & HANDRAIL IN PLACE



FINAL CAR HOIST PIT WITH BACKFILL COMPLETED,
READY FOR REBAR AND SLAB ON GRADE



TURN TABLE READY TO BE INSTALLED IN PIT



SERVICE & INSPECTION APPROACH APRON,
READY FOR CONCRETE PLACEMENT

Parsons-Dillingham-De Leuw, Cather



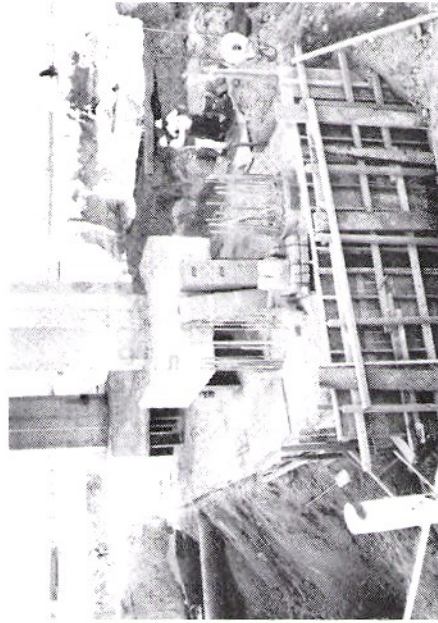
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

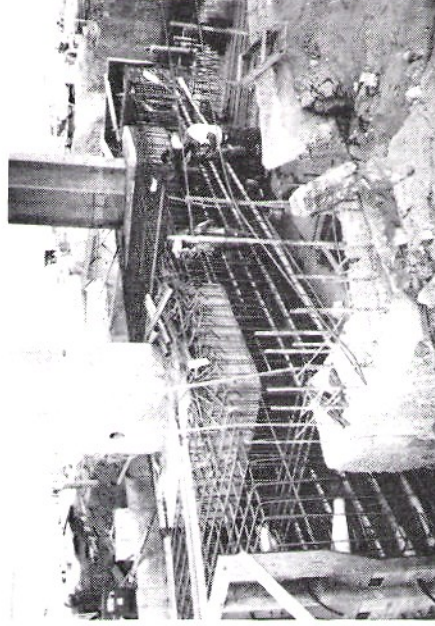
PDCD

PERIOD SEPTEMBER 1989

YARD LEADS & TRANSFER ZONE CONTRACT A130



MUD SLAB FOR TRANSFER BEAM -
UNDERPINNING BENT #4 BUSWAY



INSTALLING POST TENSIONING CONDUIT IN BEAM



DRILLING HORIZONTAL CHEMICAL GROUT HOLES
UNDER SANTA ANA FREEWAY



INSTALLING LATERAL BRACING ON
SLURRY WALLS - NORTH PORTAL AREA

Parsons-Dillingham-De Leuw, Cather



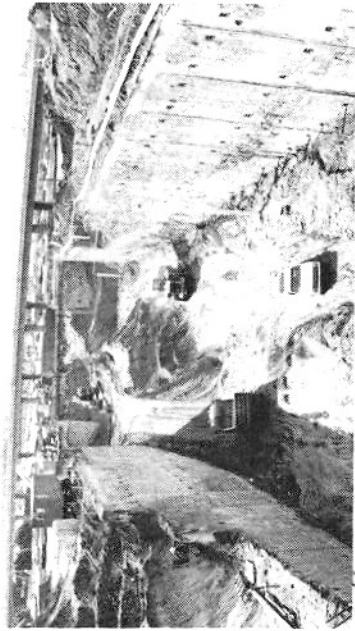
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

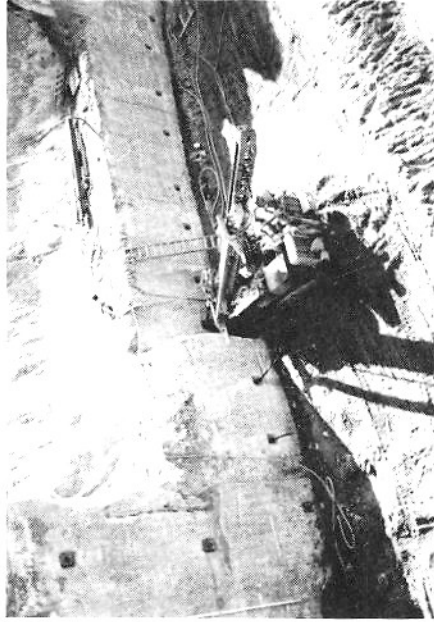
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PERIOD SEPTEMBER 1989

UNION STATION CONTRACT A135



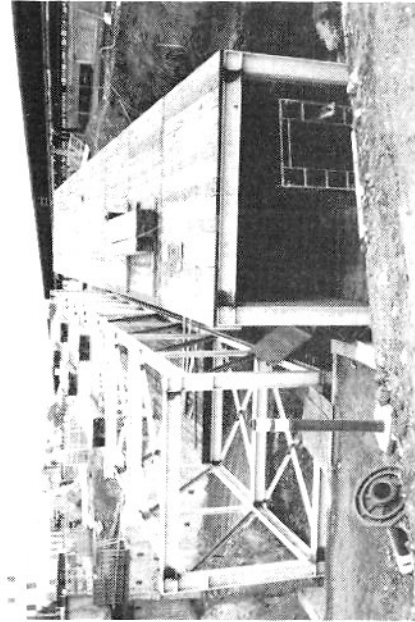
EXCAVATION FOR STATION BETWEEN SLURRY
WALLS NEAR EAST ENTRANCE



INSTALLATION OF TIEBACK ANCHOR TENDONS
THRU SLURRY WALLS



PLACING THE EAST PASSENGER BRIDGE
ACROSS STATION EXCAVATION



INSTALLATION OF FINISHING WOODWORK ON
EAST AND WEST PASSENGER BRIDGES

Parsons-Dillingham-De Leuw, Cather



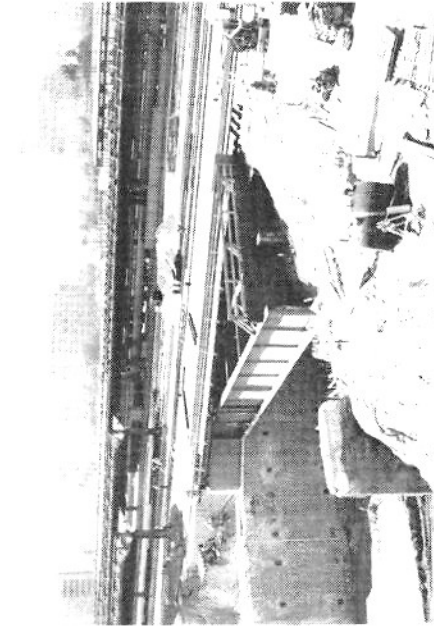
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

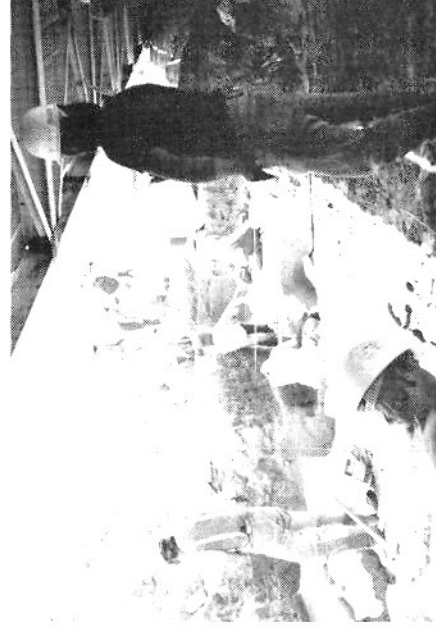
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PERIOD SEPTEMBER 1989

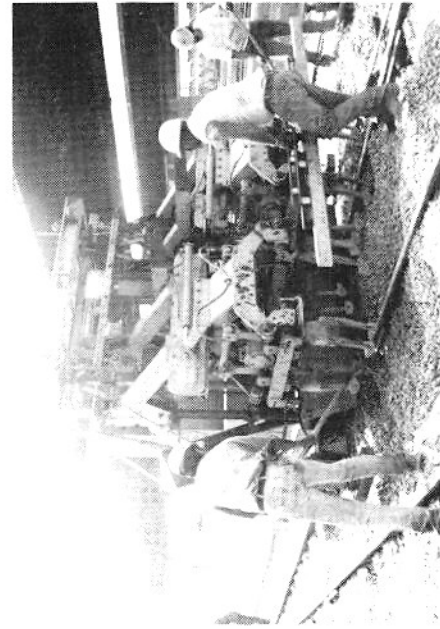
UNION STATION CONTRACT A135 (Cont'd)



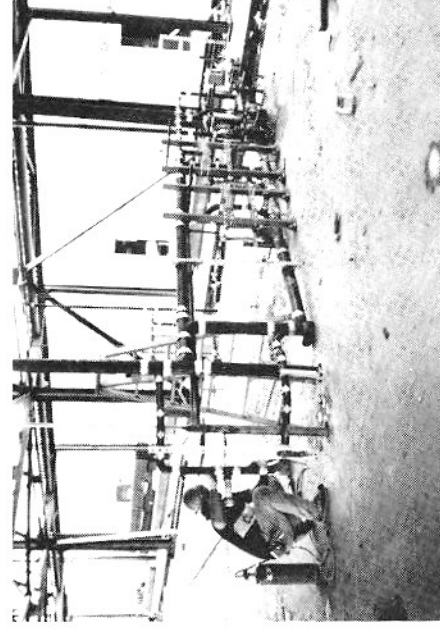
OVERVIEW OF TEMPORARY RAILROAD TRESTLE
ACROSS STATION EXCAVATION IN LAUPT TRACKYARD



ARCHAEOLOGISTS WORKING IN STATION EXCAVATION
AREA NEAR THE EAST PASSENGER BRIDGE



BALLAST TAMPING NEAR SOUTH END OF
TEMPORARY RAILROAD TRESTLE



INSTALLING ROUGH PLUMBING IN THE
BAGGAGE HANDLING FACILITY



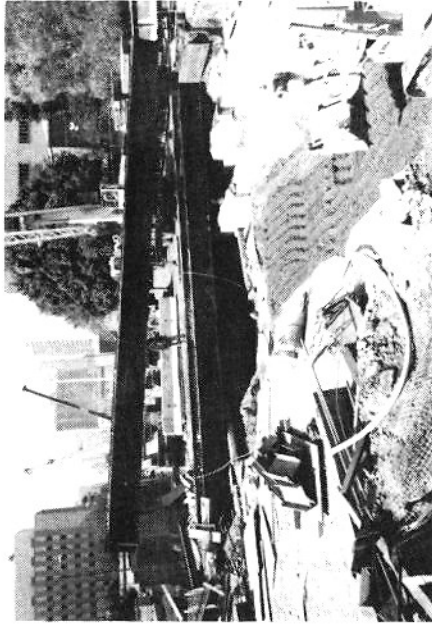
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

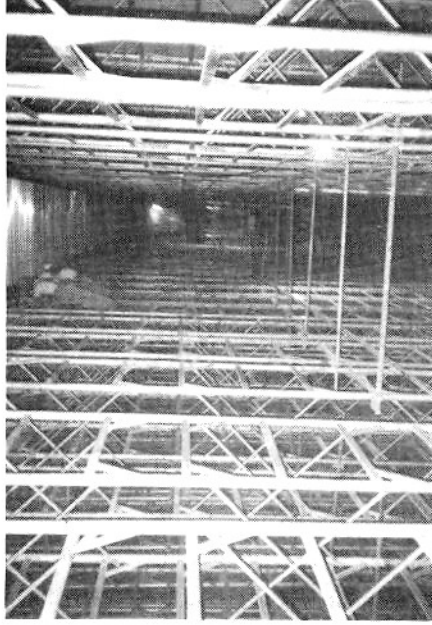
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PERIOD SEPTEMBER 1989

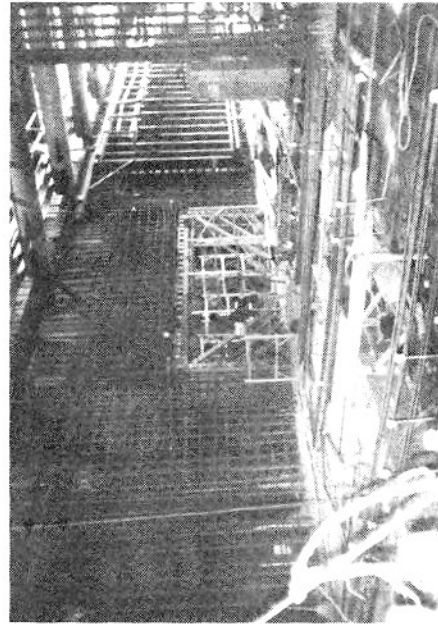
CIVIC CENTER STATION AND TUNNEL CONTRACT A141



BACKFILLING ABOVE NORTH BLAST RELIEF SHAFT



LEVELING SHORING FOR ANCILLARY
SLAB POUR IN CIVIC CENTER STATION



INSTALLING BLOCK OUT FOR NORTHEAST ENTRANCE
IN MEZZANINE WALL



EXCAVATING CROSS PASSAGE AT STATION 139+63
FROM AR TUNNEL

Parsons-Dillingham-De Leuw, Cather



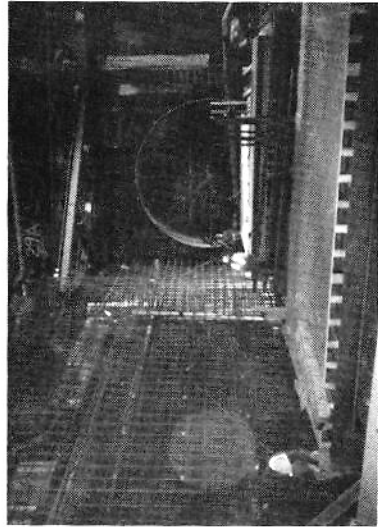
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

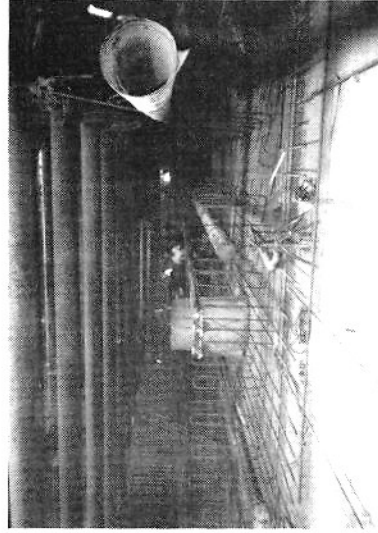
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PERIOD SEPTEMBER 1989

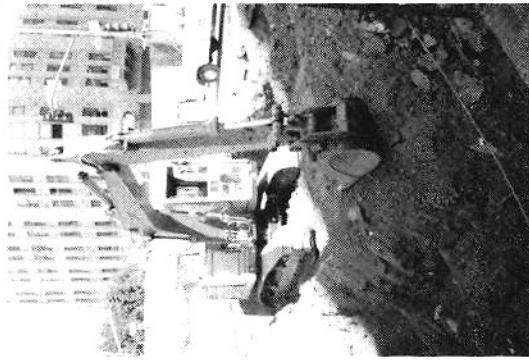
5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I CONTRACT A145/A145A



PREPARING THE EAST WALL FORMS AT
SECTIONS 15/16. ALSO VISIBLE ARE THE TUNNEL
RINGS AT THE SOUTH END OF THE STATION



INSTALLING REBAR AND ELECTRICAL/
PLUMBING EMBEDS IN INVERT 6. ALSO
VISIBLE IS A STRUT REMOVAL OPERATION



COMMENCING THE SOUTHEAST
ENTRANCE EXCAVATION IN YARD I
(SOUTHEAST CORNER OF 5TH/HILL ST.)



POURING INVERT 8

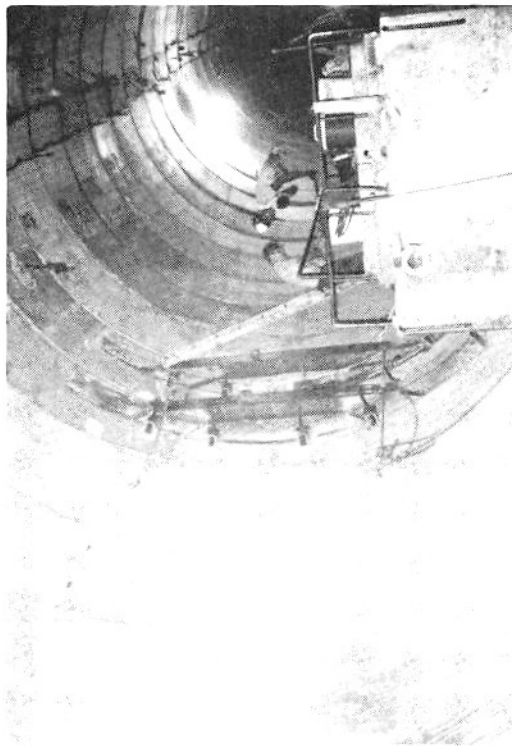


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD SEPTEMBER 1989

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



INSTALLING SUPPORT STEEL FOR CROSS PASSAGE #9
EXCAVATION IN AR TUNNEL



CONCRETE OBSTRUCTIONS (TIEBACKS) ENCOUNTERED
DURING EXCAVATION OF CROSS PASSAGE #9



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1989

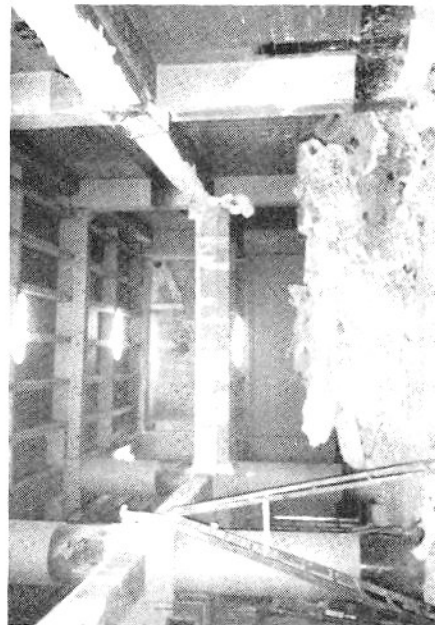
7TH/FLOWER STATION CONTRACT A165



ROOF SLAB FORMWORK AT
INTERSECTION OF FLOWER AND 7TH STS.



BLUE LINE STATION - LOOKING SOUTH ON FLOWER ST.



DEMOLITION OF SLABS FOR ENTRANCE TO
STATION IN ROOSEVELT BUILDING - 7TH ST.



RED LINE STATION, 7TH ST. - LOOKING WEST

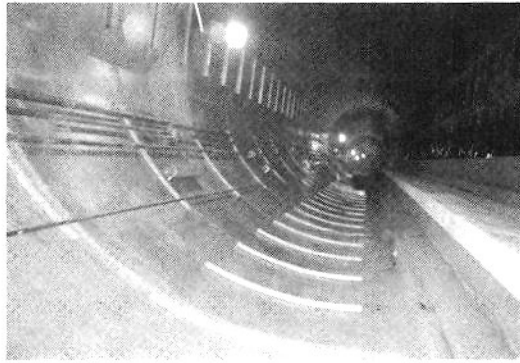


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD SEPTEMBER 1989

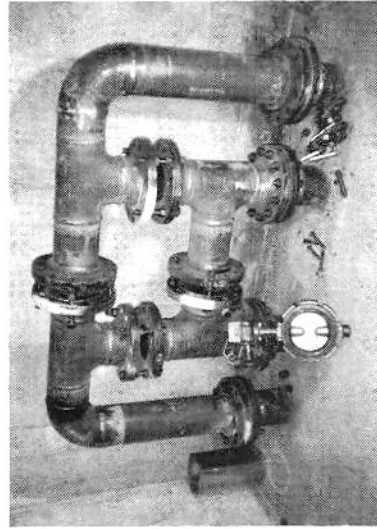
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO
CONTRACT A171



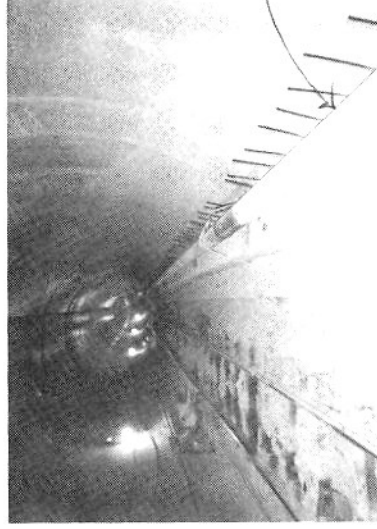
INSTALLATION OF ELECTRICAL
CONDUITS IN AL TUNNEL



REMOVAL OF THE A171 SHIELD WHICH
PROTRUDED INTO THE A165 STATION



WET STAND PIPE VALVE ASSEMBLY
IN SUMP ROOM



INSTALLATION OF WET STAND PIPE ON
FIRST LIFT OF WALKWAY IN AR TUNNEL

*July 17
why WSP
was installed
on top of
walkway?
AP*



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

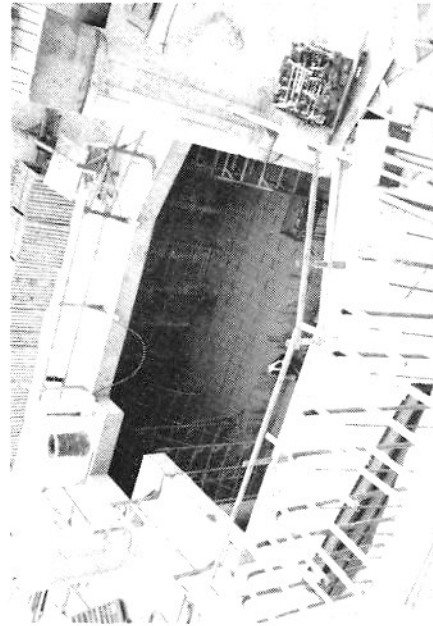
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PERIOD SEPTEMBER 1989

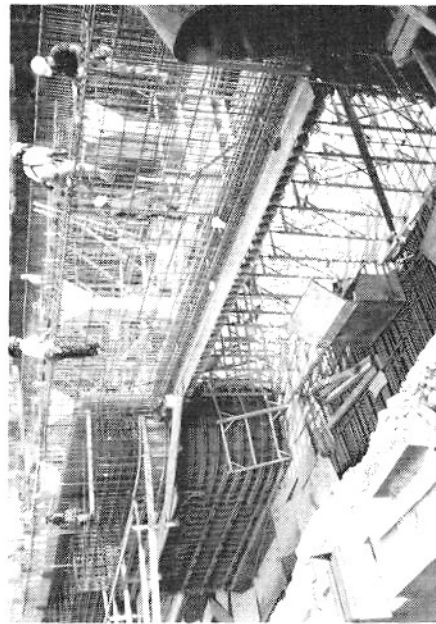
WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175



CONTRACTOR COMPLETING FINAL GRADE AT
SECTIONS 12 & 13 - A171/A175 INTERFACE AREA.
THIS COMPLETES MAIN STATION EXCAVATION



ESCALATOR OPENING IN MEZZANINE SLAB



INSTALLATION OF RESTEEL AT
THE ROOF OF STATION



END VIEW OF STATION PROGRESS LOOKING
WESTERLY INCLUDING BASE SLAB, MEZZANINE SLAB,
AND SHORING FOR ROOF SLAB

Parsons-Dillingham-De Leuw, Cather



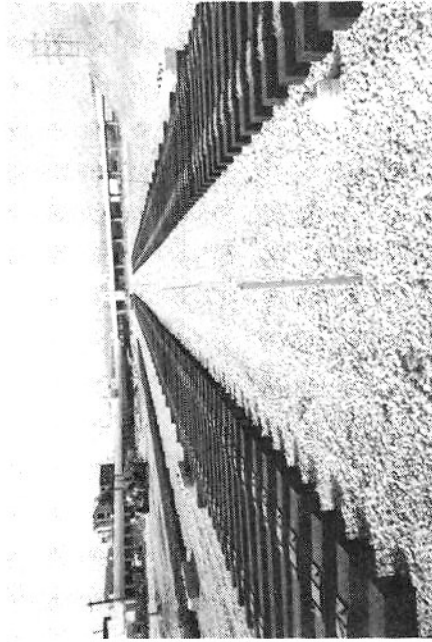
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD SEPTEMBER 1989

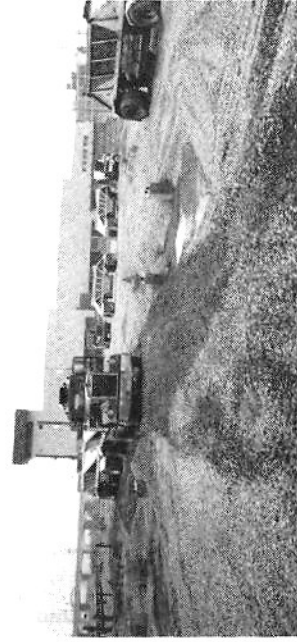
TRACKWORK INSTALLATION/YARD STORAGE AREA CONTRACT A610/A115



DISTRIBUTION OF PRE-PLATED TIES ON TRACKS
9 AND 10 AT THE NORTH END OF THE YARD,
LOOKING TOWARDS 1ST STREET BRIDGE AND M.O.W. BLDG.



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



SPREADING BALLAST ON SHOP TRACKS
NORTH OF MAIN SHOP BLDG.
(LOOKING SOUTH TOWARDS MAIN SHOP BLDG.)



FINE GRADING SHOP TRACK MR-3 AND ROAD "C"
(LOOKING SOUTH TOWARD MAIN SHOP BLDG.)

Parsons-Dillingham-De Leuw, Cather



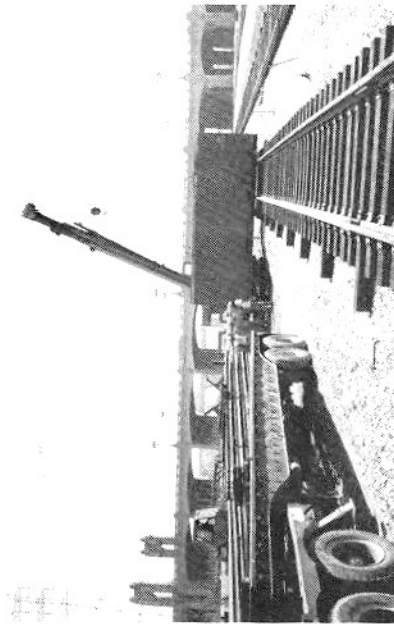
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

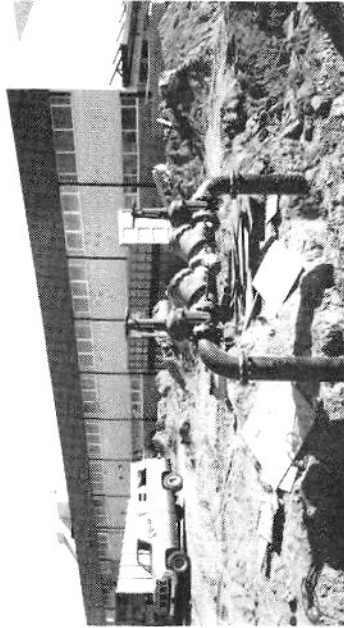
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PERIOD SEPTEMBER 1989

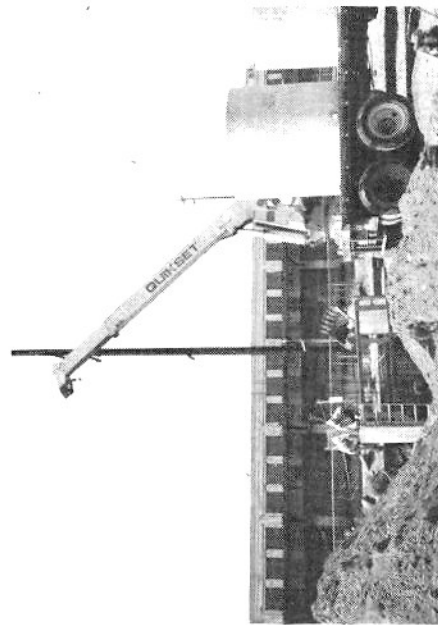
TRACKWORK INSTALLATION/YARD STORAGE AREA CONTRACT A610/A115 (Cont'd)



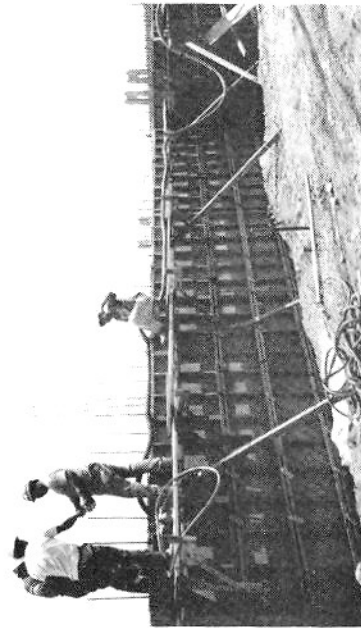
SETTING THE HOLLAND WELDING PLANT ON
TEMPORARY TRACK 9 (LOOKING SOUTH
TOWARDS 4TH STREET BRIDGE)



INSTALLATION OF 10" FIRE PROTECTION BACKFLOW
PREVENTER CONNECTING TO CITY'S WM VAULT
(LOOKING EAST TOWARDS WEST SIDE OF
MAIN SHOP BLDG.)



INSTALLATION OF SANITARY LIFT STATION HOUSING
(LOOKING WEST TOWARDS SANTA FE AVE. FROM
EAST OF SANITARY SEWER MANHOLE SS 7)



PUMPING CONCRETE FOR WEST WALL OF HEAVY
CAR CLEANING PLATFORM (LOOKING SOUTHEAST
FROM EAST SIDE OF MAIN SHOP BLDG.)

Parsons-Dillingham-De Leuw, Cather

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