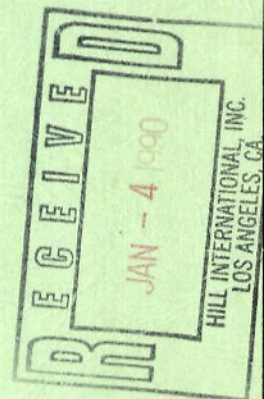
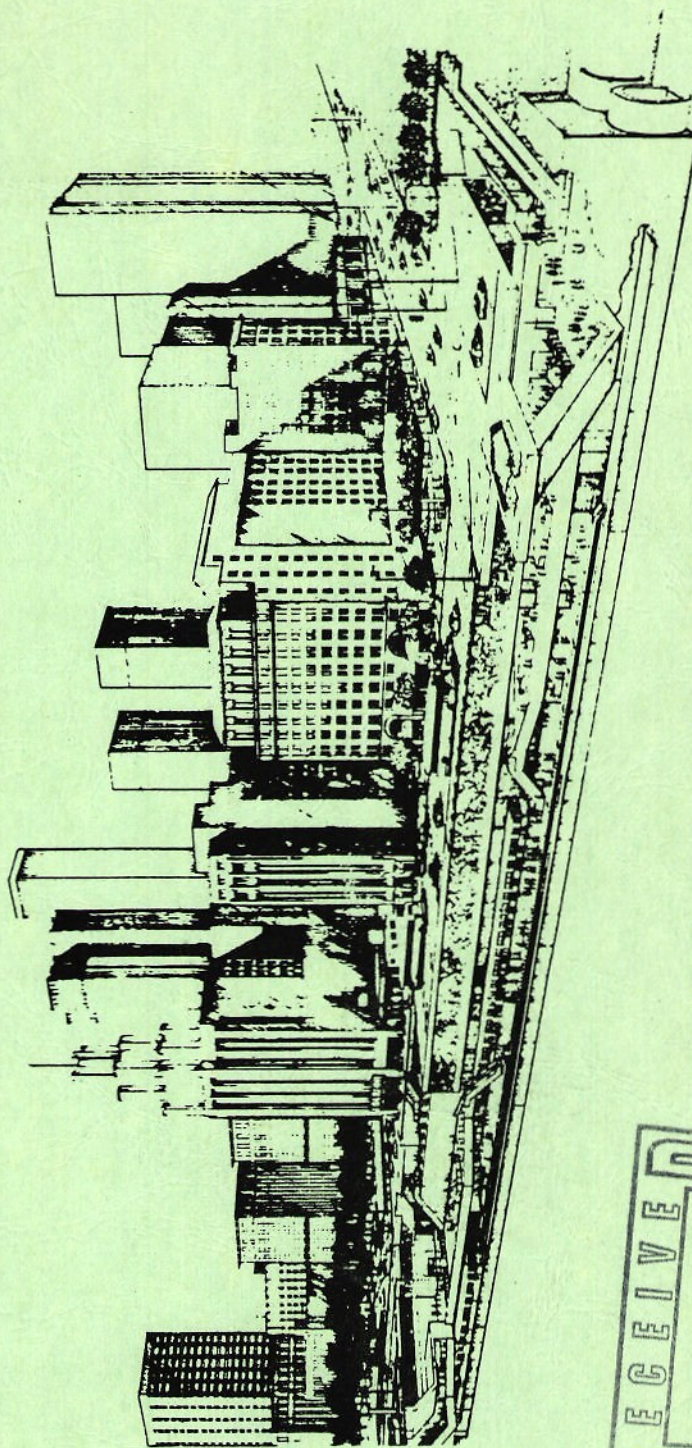


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LOS ANGELES **METRO RED LINE** PROJECT MONTHLY CONTRACT PERFORMANCE REPORT

RTD



**REPORT NUMBER 65
NOVEMBER 1989**

PDCD

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

MONTHLY CONTRACT PERFORMANCE REPORT

for the

LOS ANGELES METRO RED LINE PROJECT

NOVEMBER 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 NOVEMBER Year 1989

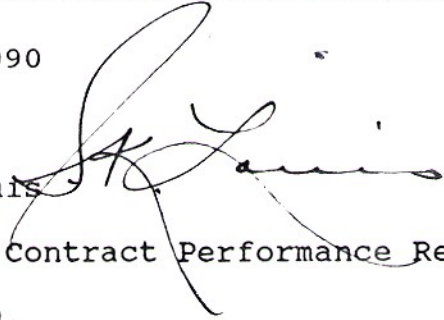
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MEMORANDUM

SOUTHERN CALIFORNIA RAPID TRANSIT DISTRICT
TRANSIT SYSTEMS DEVELOPMENT
OFFICE OF CONSTRUCTION MANAGEMENT

DATE: January 5, 1990
TO: Distribution
FROM: Samuel K. Louis 
SUBJECT: PDCD Monthly Contract Performance Report for
November 1989.

Attached is PDCD's Monthly Contract Performance Report for
November 1989.

Attachment

Distribution:

M. Caldwell (4)
M. Hoffman
J. Crawley
C. Mitrani
T. Johnson
V. Marshall
W. Norwood
K. Rascoe
J. Sandberg
H. Storey ✓
CM Staff
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SYSTEMS & CONSTRUCTION SAFETY

JAN 08 1990

ITEM # 5775
FILE #



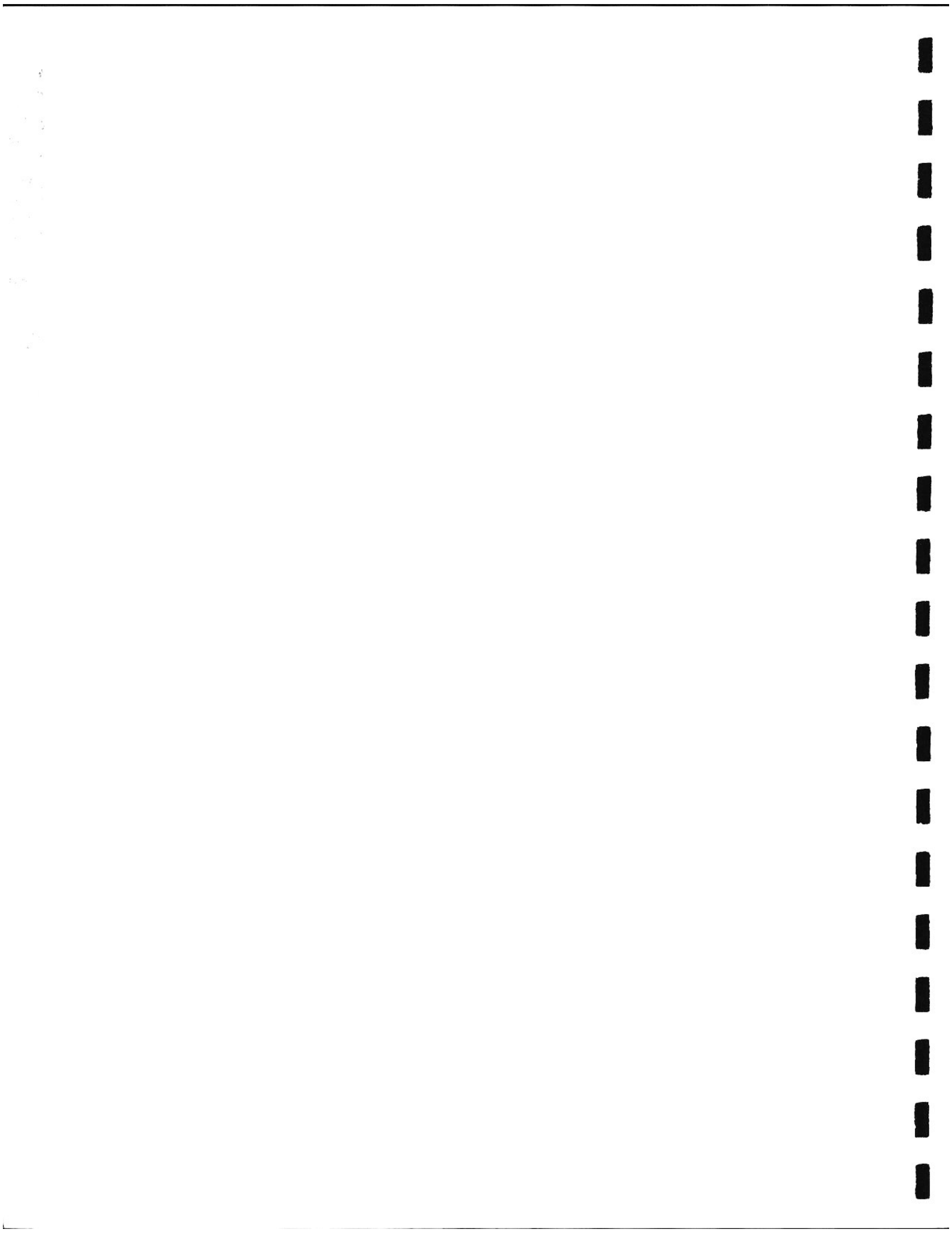
LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD NOVEMBER 1989

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SECTION I

**CONSTRUCTION MANAGER'S
SUMMARY STATEMENT**



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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MAJOR CM ACTIVITIES

I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

This Contract Performance Report (CPR) for the month of November 1989 is the fifth CPR in the Sixth Annual Work Plan (6th AWP) and covers the period October 28 to November 24, 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 9 construction sites. Continued monitoring of Discharge Monitoring Stations at Ballona Creek and Los Angeles River. Prepared and submitted October Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB). Prepared and submitted October LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Negotiated a two-year permit with the South Coast Air Quality Management District for excavation of contaminated soil.

Utilities and Traffic Activities: Continued coordination of traffic control plans and street closures with city agencies for 5 contracts. Continued coordination of MOS-1 Traffic Control/Traffic Safety inspections with LADOT. Processed a total of 18 Traffic and Utilities related submittals.

Surveying Activities: Continued checking contractor's control points and layout at various construction sites. Continued location surveys at yards and shops contracts. Continued walkway as-builts survey for AR and AL tunnels (A171). Completed A146 AR tunnel as-built. Started survey of MOS-1 Primary Control points for contract 610.

PROJECTS CONTROLS: Processed 23 Change Requests as follows: 1 for A112; 1 for A135; 4 for A141; 1 for A145; 4 for A146; 4 for A165; 2 for A171; 3 for A175; and 3 for A610/A115. Processed 19 Change Notices as follows:



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2 for A130; 1 for A135; 5 for A145; 2 for A165; 5 for A175; 1 for A610/A115; 2 for A616; and 1 for A620. Processed 65 Change Orders as follows: 4 for A112; 3 for A130; 6 for A135; 3 for A141; 2 for A145; 4 for A146; 4 for A165; 4 for A167; 12 for A175; 11 for A610/A115; 1 for A612; 1 for A615; 1 for A616; 2 for A630; 1 for A640; 2 for A650; and 1 for A752. Processed 26 executed Change Orders through TRACS as follows: 3 for A112, 1 for A130; 3 for A135; 3 for A145; 1 for A146; 3 for A165; 5 for A167; 1 for A171; 5 for A175; and 1 for A167. Processed 4 Potential Claims as follows: 2 for A112; 1 for A130; 1 for A141; and 1 for A165. Processed 1 Change - Technical Evaluation as follows: 1 for A135. Processed 2 Force Account Change Packages as follows: 2 for A141. Completed Close-out Reconciliations on 3 Force Account Change Orders as follows: 2 for A141 and 1 for A165. Processed 24 Monthly Payment Estimates. Reviewed Contractor Monthly Progress Reports. Prepared Scheduling inputs to RTD Monthly Status Report. Approved-as-noted A165 and A167 Part II Schedule Submittal. Review in progress for Part II Schedule revision from A165 and A167. Prepared quarterly update (designated Revision 7B) for the Level III Schedule.

Cost Estimates for Changes/Proposals:

A-130-CR-026A: Completed a revised estimate for revised communication ductbank and attended negotiations meeting. A-130-CR-031: Completed structural phase of estimate for incoming electrical service room. A130-CR-038: Reviewed Scope of Work and began estimate for extending 48" diameter underpinning piers. A-135-CR-004, CR-032: Continued to review changes and proposals, attended negotiations related to LAUPT Baggage Handling and police room. A-135-CR-011: Completed estimate for west entry changes. A-136 Stage II: Completed review of contract documents and MRTC estimates and prepared construction schedule. A-141-CR-011: Access delay to Union Station, reviewed contractors (subcontractors) proposals, prepared estimates, schedules and analysis, attended negotiations meeting. A-141-CR-104: Completed estimate for revisions to water service and corrosion control. A145-CR-132: Began estimate on increased elevator hoistway and related work. A-146-CR-038: Prepared estimate for walkway and wet standpipe changes. A-165: Completed final decking quantity takeoff. A-165-CR-075: Completed estimate for wet standpipe and sprinkler system, reviewed contractor proposal, attended negotiations. A167-CR: Prepared estimate for sandblasting entry at Home Savings. A-171-CR-008: Prepared quantity takeoff shaft concrete credit. A-171-CR-027: Prepared quantity takeoff and material prices for fire protection valve pit deletion. A-175-CR-035: Reviewed contractor revised proposal, incoming electric service room, attended negotiations. A-175-CR-046, 054, 055: Reviewed contractor proposals; A-175-CR-081: Prepared quantity takeoff, shaft excavation and reviewed contractor proposal. A-175-CR-082: Researched data for resteel coupling. A-732-CR: Began estimate for installation of wheel press and boring machine.



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General Reviewed Force Account wage rates and equipment rates in support of field offices.

CONTRACT/PROCUREMENTS: Completed contractual arrangements with qualified company to control(trap and dispose of) rodents at A165/A167 jobsite. Issued 31 purchase orders for miscellaneous suppliers and equipment. Continued to administer 19 active subcontractors issued by PDCD in support of project.

ENGINEERING SERVICES: Began preparation for tunnel geology mapping training for A130 construction inspectors. Reviewed the draft Civic Center Station strut overload study by RTD consultant, J. P. Gould. Completed coordination with Dr. Gould for his oral presentation on the Civic Center Station strut overload study. Completed arrangements for A141 Contractor to monitor changing loads on Civic Center Station stressed struts in each wall zone prior to and following the destressing of struts in adjacent zones. Began logging geologic exposures and monitoring magnetometer surveys in the A141 AL North tunnel. Began revising PDCD's draft A145 Design Criteria Verification Study Task B Report after receiving review comments from MRTC, RTD and RTD consultant J. P. Gould. Estimated the effort expended by PDCD on the A145 Design Criteria Verification Study Task B Report. Processed 14 field inquiries with MRTC to obtain clarification of design requirements. Responded to 160 requests for information or documentation clarification from various contractors. Continued comprehensive review of electrical embedments on Contract A145.

During this period 274 Contractor submittals were processed as follows:

For Contract A112	- Approved - 4;	Approved-as-Noted - 4.	Rejected - 4;	For Record Only 1.
For Contract A130	- Approved - 17;	Approved-as-Noted - 8;	Rejected - 3.	
For Contract A135	- Approved - 4;	Approved-as-Noted - 18;	Rejected - 3.	
For Contract A135BH	- Approved - 9;	Approved-as-Noted - 4;	Rejected - 1;	For Record Only 1.
For Contract A141	- Approved - 9;	Approved-as-Noted - 18;	Rejected - 4.	
For Contract A145	- Approved - 3;	Approved-as-Noted - 37;	Rejected - 2.	
For Contract A146	- Approved - 26;	Approved-as-Noted - 10;	Rejected - 2.	
For Contract A165	- Approved - 5;	Approved-as-Noted - 8;	Rejected - 4.	
For Contract A167	- Approved - 2;	Approved-as-Noted - 2;	Rejected - 2.	
For Contract A175	- Approved - 9;	Approved-as-Noted - 2.		
For Contract A610/A115	- Approved - 3.			
For Contract A616	- Approved - 9;	Approved-as-Noted - 7;	Rejected - 2.	
For Contract A620	- Approved - 5;			
For Contract A630				



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For Record Only 1.

Rejected - 4.

Rejected - 1.

- Approved - 3; Approved-as-Noted - 5;
- Approved-as-Noted - 1.
- Approved - 6.
- Approved - 1.

For Contract A631
For Contract A640
For Contract A732
For Contract A740
For Contract A745

3 = 274

30

126

115

TOTAL

SAFETY/SECURITY: Performed daily site safety, health and security surveillances and prepared written reports for 12 construction contracts. Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service Subcontractors. Performed site safety surveillances with DIA Director of Safety. Prepared written reports. Reviewed video stills with contractors' management staff (except for A141 contractor) and PDCD Resident Engineers' staff.

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 A145 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, lack of visibility, accidents, security, and general construction activities. Provided assistance to RTD in responding to media requests and coordinating 4 site visits. Processed 20 inquiries/complaints. Provided assistance to RTD/LGCA in coordination of the December 14 Community Awareness Meeting for 5th/Hill Street area tenants. Provided assistance to Grand Central Market, (A145) during relocation of A141 tunnel mining equipment. Coordinated and resolved traffic mitigation concerns for tenants along 5th Street during soldier pile installation (A145).

QUALITY ASSURANCE/QUALITY CONTROL - Continued to review welding activities and conducted fabrication inspections as required to support facilities and system procurement contracts as follows: Site Inspection at: A130, A145 - Inspection of welds on starpicks, kneebrace supports, walers and struts during excavation; - A135 - Inspection of welds on wet standpipe and elevator systems; - A145 - Inspection of bulkhead strut welds for tunnel supports and rebar welds on wall dowel modification; A141 - Evaluation and inspection of welds on steam and chilled water lines for the Law Library; A145, A165, A175 - Inspection of welds during installation of permanent structures. Shop Inspection at: Paramount Metals - Inspection of embedded supports for slurry walls, rails,



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escalator beam supports, tunnel rings, and heavy frames for permanent structures (A130, A141, A145, A165, A175);

Angeles Steel - Inspection and monitoring of stud welding subcontracted from Paramount Metals; Scott Company - Inspection of Wet Standpipe and Hydraulic piping system spool pieces (A135, A145, A165). Continued to monitor on-site testing and Smith-Emery test laboratory activities. Witnessed system pressure tests for: A141 Wet Standpipe pipe spool; A145 Hydraulic Oil Lines; A171 Fire Lines; and A610/A115 Fire Lines, and Domestic Water and Natural Gas Lines. Inspected welded joints on A145 Deluge Lines. Inspected installation and monitored testing of HDPE for A135. Participated in A112 contract close-out activities. Participated in Safety Certification Review Team Audit of Contract A171. Conducted QA review of approximately 142 contractor submittals for various contracts. Monitored Smith-Emery concrete test reports.

EQUAL OPPORTUNITY - Monitored Equal Opportunity reporting requirements (i.e. SSA&P Report, Monthly Employment Utilization Reports, Certified Payroll) for 27 Contracts. Conducted project site interviews for 9 contracts. Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for 6 Contracts.

MANPOWER PERFORMANCE

The manpower performance for November is measured against the approved planned staffing for this period from the 6th AWP. During November the actual staff level was 191 vs. the planned staff level of 174. Therefore, the actual staff count for November was 17 over the planned staffing level. The staff breakdown by company was 127 for the Joint Venture firms and 64 for the Associate Subcontractors. The increased staff was required for the processing of excessive field submittals and correspondence, requests for information, and for multishift inspection of construction work at various job sites.

The November period had 144 available workhours/person. The plan provided for expenditure of 25,056 hours, including "as-required" manhours which would have generated a projected equivalent head count of 174.0 personnel at 144 hours/person. Actual hours expended were 26,493 which translates into a 183.98 equivalent head count at 144 hours/person including temporary personnel, resulting in the equivalent of 9.98 personnel over the plan.

Cumulative total hours incurred through November were 144,647 against a plan of 142,640 resulting in an over plan variance of 2,007 hours.



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EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in November 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 22.1%, 2.1% over the goal of 20%. Cumulative DBE participation since contract inception is 23.3%, 3.3% above the 20% goal.
- o Minority and Women Affirmative Action performance for the month exceeded the established goal of 17% for minorities by 22% and was below the goal of 8% for women by 1%.

SCHEDULE PERFORMANCE

- o Contractor Submittals - During this period, 319 submittals were received per contract number as follows: A112 (4), A130 (23), A135 (37), A135BH (7), A141 (24), A145 (60), A146 (10), A165 (54), A167 (18), A171 (2), A175 (14), A610/A115 (8), A612 (1), A615 (0), A616 (0), A620 (21), A630 (9), A631 (7), A640 (10), A710 (0), A732 (0), A740 (7); A745 (1); and A795 (2); of the 319 received this period plus the 189 carryover from October, 274 packages were processed and returned to the contractors; the balance of 234 remain in review.

- o Claims Avoidance Reviews - Completed Claims Avoidance Review (CAR) of A147 Civic Center Station, Stage II and A157 - 5th/Hill Station, Stage II.

COST PERFORMANCE - Sixth Annual Work Plan

- o Total incurred costs of \$1,237,411 for CM Direct Services (excluding General Condition Items) for the period were over the plan of \$1,235,424 by \$1,987. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$28,458 and labor expenditures (total PDCD and subcontractors) being over the plan by \$30,445.
- o The cumulative costs for total CM Services (including General Condition Items) incurred through November were \$6,895,349 against a plan of \$7,247,641 resulting in an under plan of \$352,292.



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- o The cumulative costs for total CM Services (including General Condition Items) incurred through November were \$6,895,349 against a plan of \$7,247,641 resulting in an under plan of \$352,292.
- o The November CPR indicates an Estimate at Completion as of the 6th AWP (including General Condition Items) of \$16,870,152 versus a plan of \$16,872,967 for an underexpenditure of \$2,815.

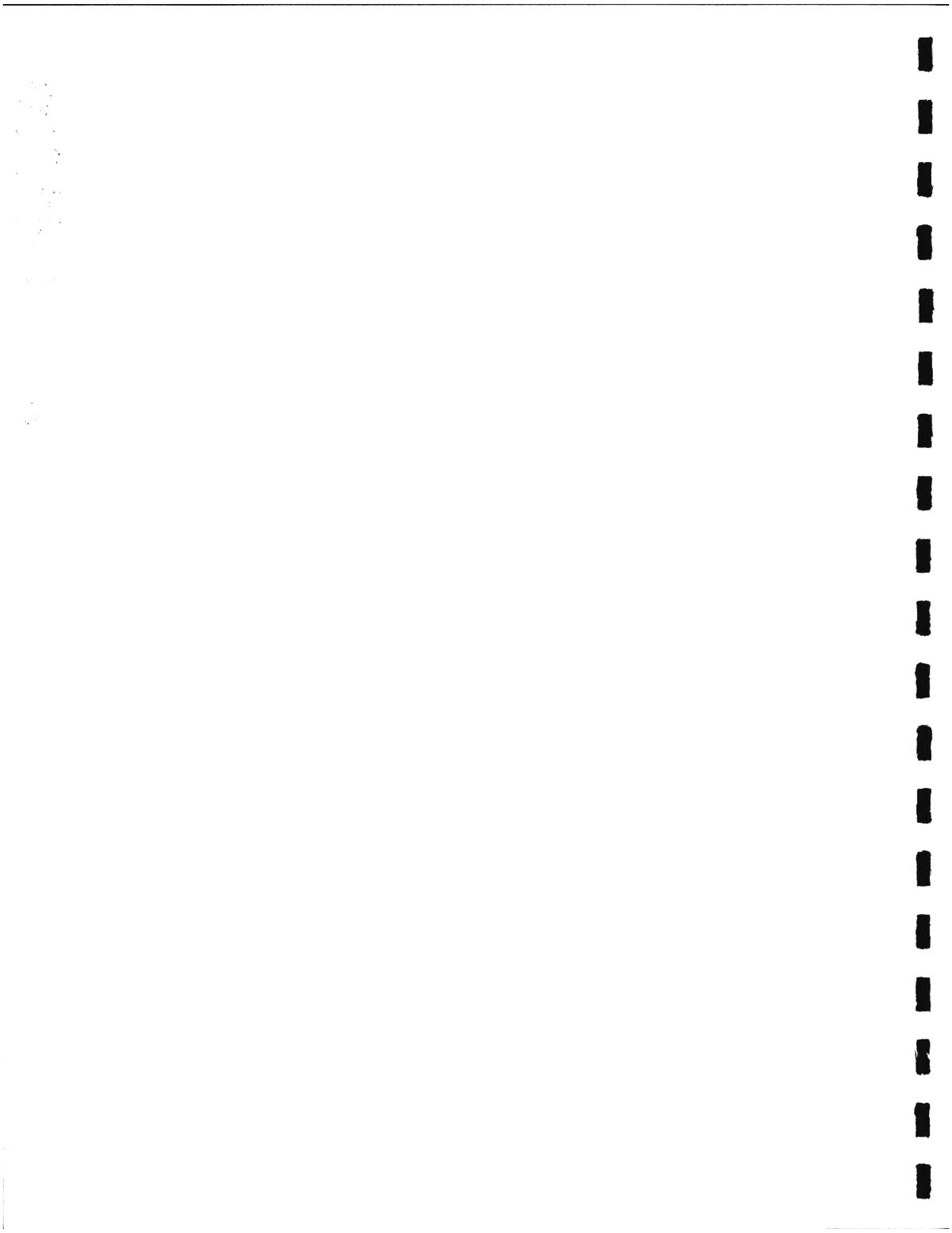
GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$52,787 for the period were under the plan of \$64,692 for the period by \$11,905. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of \$793,781 which is over the plan of \$791,300 by \$2,481.

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

MTA LIBRARY



LOS ANGELES METRO RED LINE

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II. MANPOWER PERFORMANCE

This CPR for the month of November, 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 November.

During November, personnel assignments/deletions included the addition of 2 Senior Planner/Schedulers, 1 Senior Data Technician (Change Control), and 1 File Clerk; and the deletion of 2 Senior Data Technicians (Document Control), 1 Architect, and 1 QA/QC Inspector.

For the November period, under the approved 6th AWP, the total planned staffing level (including regular and as-required classifications) is 174. The actual staff (including regular, as-required and temporary classifications) was 191 resulting in 17 over the plan. The current actual staff by company for the November period is as follows:

<u>Company</u>	<u>Staff Level</u>	<u>Company</u>	<u>Staff Level</u>
The Ralph M. Parsons Company	55	Jenkins, Gales & Martinez, Inc.	9
Dillingham Construction, Inc.	53	Kal Krishnan Consulting	3
De Leuw, Cather & Company	19	Martin & Huang International	4
Better Personnel Employment Services	9	North Pacific Construction Management	6
Construction Control Services Corporation	17	Ochoa & Sillas	-
Dames & Moore	1	Randolph & Tate Associates	-
D'Leon Consulting	1	Transmetrics	1
Engineering-Science, Inc.	2	Manpower	4
Jacobs Associates	7		

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

The November period had 144 available workhours/person. The plan provided for an expenditure of 25,056 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 174.0



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personnel @ 144 hrs./person. Actual hours expended were 26,493 which translates into an equivalent head count of 183.98 @ 144)hrs./person including temporary personnel, resulting in the equivalent of 9.98 personnel over the plan.

The hours expended for the period were 26,493 versus a plan of 25,056. The 1,437 manhours variance for the period is calculated as follows:

9.98 equivalent staff over plan @ 144
hours/period in plan =

1,437 hours

NOVEMBER VARIANCE TO PLAN

1,437 hours

Cumulative total hours for the 6th AWP incurred through November were 144,647 against a plan of 142,640 resulting in an over plan variance of 2,007 hours (Page 23).



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

Phase II Construction Services				
Regular/As-required/Temporary				
Position	Planned	Actual	Variance	
Construction Manager	1	1	0	
Manager, Safety and Security	1	1	0	
Safety Inspectors	1	1	0	
Manager, Quality Assurance(3)	1	1	(1)	
Lead Quality Assurance Engineer(3)	0	0	0	
QA/QC Engineers/Inspectors	1	1	0	
Manager, Project Administration/Accounting(5)	1	1	0	
Lead Accountant(5)	0	0	0	
Senior Accountant	1	1	0	
Manager, Community Relations	2	2	0	
Community Relations Coordinator	1	1	0	
Manager, EO Administration	1	1	0	
EO Administrator	1	1	0	
Labor Relations Advisor	1	0	(1)	
Legal Counsel	1	0	0	
Subtotal	14	11	(3)	
DCM, Eng'r Serv./Proj. Controls(4)				
Manager, Admin. Serv./Proj. Contr.(4)	0	0	0	
Manager, Administration and Staff Support(4)	1	1	0	
Technical Data Coordinator	1	1	0	
Lead Cost Engineer	1	1	0	
Cost Engineers	4	4	0	
Lead Change Control	1	1	0	
Change Control Specialist	2	2	0	
Claims Proc. Spec.	1	1	0	
Data Technicians	1	1	0	
Lead Planner/Scheduler	9	9	0	
Planner/Schedulers	1	1	0	
Lead Estimator	4	3	(1)	
Estimators	1	1	0	
Sr. Data Technician	1	1	0	
Computer Support	0	0	0	
Lead Document Control Specialist	1	1	0	
Document Control Specialist	1	1	0	
Shop Drawing Coordinator	1	1	0	
Data Technician	1	2	1	
File Clerk	1	1	0	
Manager, Contracts/Procurement(5)	1	1	0	
Sr. Contract Administrator	1	1	0	
Office Services Manager	1	1	0	
Secretary/Word Processing/Clerical/	1	1	0	
Drafting/Courier	14	15	1	
Interim Program Controls Manager	0	1	1	
Subtotal	51	51	0	
DCM, Operations				
Manager, General Services	1	1	0	
Lead Utilities Engineer	1	1	0	
Party Chief	1	1	0	
Instrument Person	1	2	1	
Rod Person	2	1	(1)	
Lead Environmental Engineer	1	1	0	
Engineering Technicians/Coordinators	3	2	(1)	
Resident Engineers	9	8	(1)	
Chief Inspectors	8	9	1	
Sr. Inspectors/Inspectors	32	38	6	
Office Engineers	9	11	2	
Field Secretaries/Clerical	10	12	2	
Manager, Systemwide Construction	1	1	0	
Office Engineer	3	3	0	
Resident Engineers	4	4	0	
Secretaries/Clerical	4	4	0	
Inspector	1	0	(1)	
Data Technicians	1	1	0	
Subtotal	93	101	8	
Totals	174	191	17	

NOTES:

- (1) The "Planned" staff count is taken directly from the RTD approved PPCD 6th AMP. It is the planned staff count for the reported month and includes both "Regular" and "As-required" classifications.
 - (2) The "Actual" staff count is the total actual staff count by Job Position. Included are regular, as-required and temporary staff.
 - (3) 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

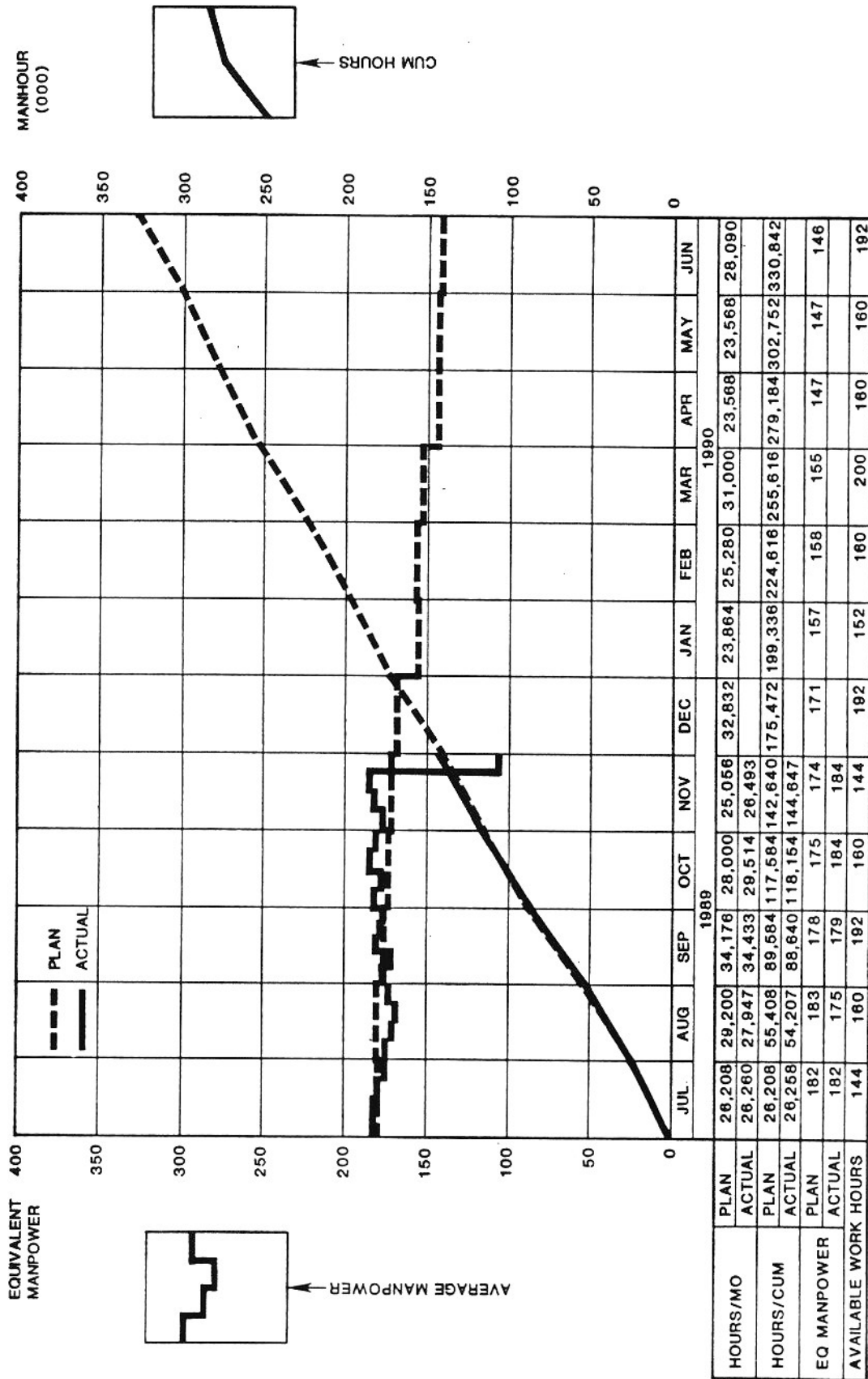
PDCD

CONTRACT PERFORMANCE

REPORT

SIXTH ANNUAL WORK PLAN

PERIOD NOVEMBER 1989



PDCD MANPOWER

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 1 OF 3

1989

1990

DESCRIPTION (MHSR)		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	32,082
	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	3,066	2,839	0	0	0	0	0	0	0	14,516
	ACTUAL	2,729	5,331	8,611	11,677	14,516	14,516	14,516	14,516	14,516	14,516	14,516	14,516	
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	129,056
	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	11,745	11,121	0	0	0	0	0	0	0	60,470
	ACTUAL	11,255	23,131	37,604	49,349	60,470	60,470	60,470	60,470	60,470	60,470	60,470	60,470	
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	30,026
	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	1,981	1,741	0	0	0	0	0	0	0	9,150
	ACTUAL	1,559	3,218	5,428	7,409	9,150	9,150	9,150	9,150	9,150	9,150	9,150	9,150	
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	16,883
	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	1,406	1,283	0	0	0	0	0	0	0	7,324
	ACTUAL	1,486	3,035	4,635	6,041	7,324	7,324	7,324	7,324	7,324	7,324	7,324	7,324	
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	50,865
	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	3,687	3,519	0	0	0	0	0	0	0	18,617
	ACTUAL	3,457	7,344	11,411	15,098	18,617	18,617	18,617	18,617	18,617	18,617	18,617	18,617	



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 2 OF 3

1989

1990

DESCRIPTION (MHS)	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTALS
MANHOURS BY FUNCTIONAL DEPARTMENT													
L PROCUREMENT	PLAN	432	480	576	320	288	384	274	288	360	256	307	4,221
	current	432	912	1,488	1,808	2,096	2,480	2,754	3,042	3,402	3,914	4,221	
	cumulative	249	309	352	295	267	0	0	0	0	0	0	1,472
	ACTUAL	249	558	910	1,205	1,472	1,472	1,472	1,472	1,472	1,472	1,472	
M ENG. SVCS./SYST. INTEGR. PLAN	PLAN	2,520	2,960	3,360	2,800	2,232	2,976	2,842	2,832	3,540	2,448	3,130	34,248
	current	2,520	5,480	8,840	11,640	13,872	16,848	19,690	22,522	26,062	28,670	31,118	
	cumulative	2,913	2,950	5,135	4,762	3,594	0	0	0	0	0	0	19,354
	ACTUAL	2,913	5,863	10,998	15,760	19,354	19,354	19,354	19,354	19,354	19,354	19,354	
N COMMUNITY RELATIONS	PLAN	288	320	384	320	288	384	152	160	200	160	192	3,008
	current	288	608	992	1,312	1,600	1,984	2,136	2,296	2,496	2,656	2,816	
	cumulative	248	265	272	156	155	0	0	0	0	0	0	1,096
	ACTUAL	248	513	785	941	1,096	1,096	1,096	1,096	1,096	1,096	1,096	
P SAFETY	PLAN	288	320	384	320	288	384	304	320	400	256	307	3,827
	current	288	608	992	1,312	1,600	1,984	2,288	2,608	3,008	3,520	3,827	
	cumulative	200	320	340	280	280	0	0	0	0	0	0	1,420
	ACTUAL	200	520	860	1,140	1,420	1,420	1,420	1,420	1,420	1,420	1,420	
Q QUALITY ASSURANCE	PLAN	432	480	576	320	288	384	274	288	360	288	346	4,324
	current	432	912	1,488	1,808	2,096	2,480	2,754	3,042	3,402	3,978	4,324	
	cumulative	338	402	520	438	304	0	0	0	0	0	0	2,002
	ACTUAL	338	740	1,260	1,698	2,002	2,002	2,002	2,002	2,002	2,002	2,002	

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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R PROJECT ADMIN.	PLAN	current	1,440	1,600	1,920	1,600	1,440	1,920	1,920	1,383	1,616	1,820	1,536	1,376	1,651	19,302																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	cumulative	1,440	3,040	4,960	6,560	8,000	9,920	11,303	11,303	11,303	12,919	14,739	16,275	17,651	19,302																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	ACTUAL	current	1,581	1,856	1,914	1,554	1,254	0	0	0	0	0	0	0	0	8,159																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	cumulative	1,581	3,437	5,351	6,905	8,159	8,159	8,159	8,159	8,159	8,159	8,159	8,159	8,159	8,159																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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	cumulative	245	517	787	931	1,067	1,067	1,067	1,067	1,067	1,067	1,067	1,067	1,067	1,067																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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U LEGAL	PLAN	current	0	0	192	0	0	0	0	0	160	0	0	160	0	512																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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SECTION III

EQUAL OPPORTUNITY PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Sixth Annual Work Plan for November measured on the basis of accrued total cost was 22.1% 2.1% above the 20% goal. The cumulative percentage for the Sixth Annual Work Plan was 23.3%, 3.3% above the 20% goal (Figure 1 on Page 16). The cumulative percentage for the total contract from its inception in July 1984 is 22.7%, 2.7% 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 22%. The Affirmative Action Analysis for women, as indicated in Figure 3 on Page 16, shows 7%, which is below the goal of 8% by 1.0%.



LOS ANGELES METRO RED LINE
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PERIOD NOVEMBER 1989

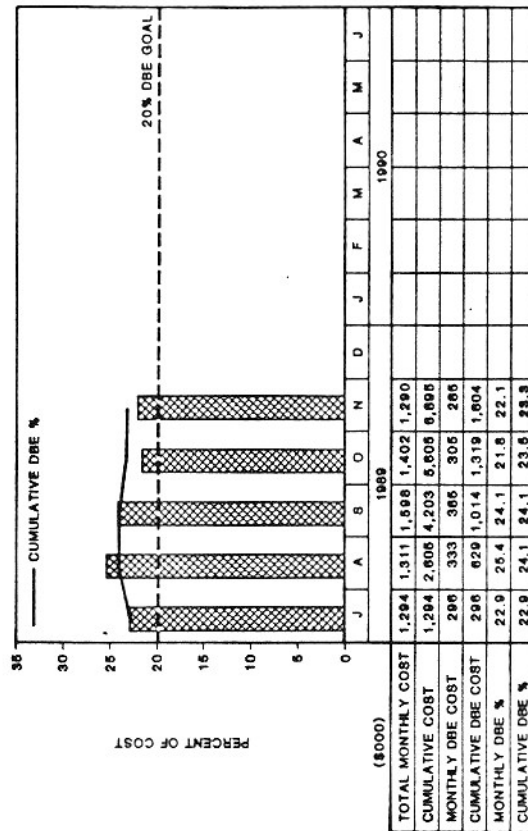


FIGURE 1 - DBE ANALYSIS

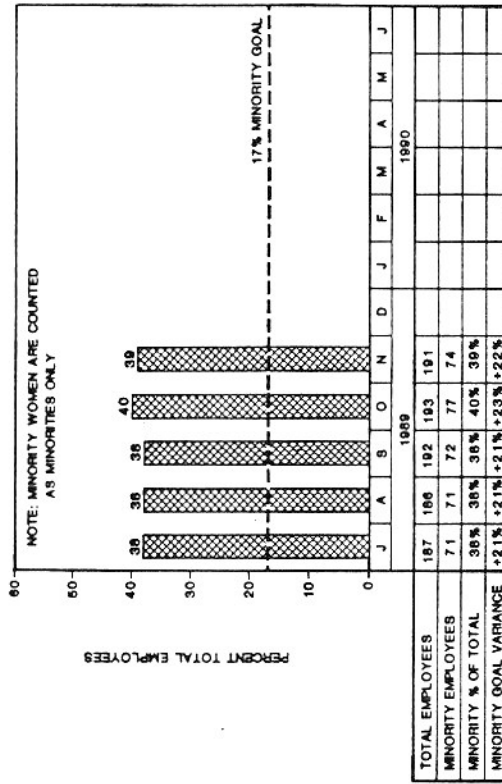


FIGURE 2 - MINORITY AFFIRMATIVE ACTION ANALYSIS

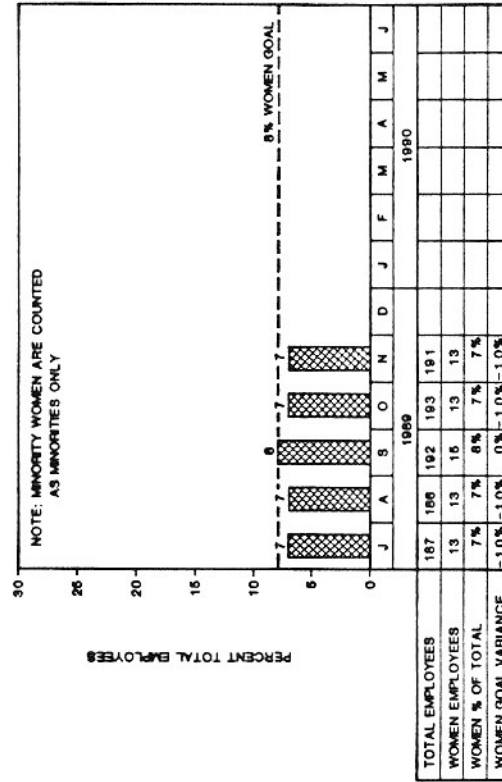


FIGURE 3 - WOMEN AFFIRMATIVE ACTION ANALYSIS



SECTION IV

SCHEDULE PERFORMANCE



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 319 submittals were received from the Construction Contractors and 189 were carried over from September. 274 packages were processed (approved, approved-as-noted, rejected and reviewed for record only) and returned to the Contractors as shown in the following tabulation. The balance of 234 are still under review.

Contracts	Carryover From Oct.	No. Of Submittals Received in Nov.	Submittals Processed Within 30 Days	Submittal Processed In Over 30 Days	Carryover To December
A112	5	4	1	3	5
A130	9	23	14	3	15
A135	27	37	36	2	26
A135BH	8	7	9	2	4
A141	19	24	26	3	14
A145/A145A	37	60	46	4	47
A146	4	10	4	1	9
A165	26	54	30	8	42
A167	14	18	12	5	15
A171	0	2	0	0	2
A175	7	14	6	0	15
A610/A115	8	8	11	0	5
A612	0	1	0	0	1
A615	0	0	0	0	0
A616	9	0	3	0	6
A620	10	21	18	0	13
A630	0	9	6	0	3
A631	4	7	4	0	7
A640	0	10	2	7*	1
A710	0	0	0	0	0
A732	1	0	1	0	0
A740	1	7	6	0	2
A745	0	1	1	0	0
A795	0	2	0	0	2
TOTAL	189	319	236	38	234

Parsons-Dillingham-De Leuw, Cather

*30 day turnaround requirement is not contractually mandated.



LOS ANGELES METRO RED LINE

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

- o Claims Avoidance Reviews - Completed Claims Avoidance Review (CAR) of A147, Civic Center Station, Stage II and A157, 5th/Hill Station, Stage II.

Training Programs - The following training program was underway during the November period:

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



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD 10-28-89 TO 11-24-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	Remarks
A-147	CIVIC CENTER STATION (STAGE II)	DWGS	CAR	08-16-89	08-17-89	10-27-89	11-09-89	*RESCHEDULED TO 11-10-89 BY PDCD
A-147	CIVIC CENTER STATION (STAGE II)	SPEC	CAR	08-16-89	08-30-89	10-27-89	11-09-89	*RESCHEDULED TO 11-10-89 BY PDCD
**								
A-157	5TH/HILL STATION (STAGE II)	DWGS	CAR	08-14-89	08-16-89	10-06-89	11-07-89	*RESCHEDULED TO 11-3-89 BY PDCD
A-157	5TH/HILL STATION (STAGE II)	SPEC	CAR	08-14-89	08-22-89	10-06-89	11-07-89	*RESCHEDULED TO 11-3-89 BY PDCD
**								

4 records listed. 4 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 11-01-89, MRTC Design Review Schedule



SECTION V

COST PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

SIXTH ANNUAL WORK PLAN

V. COST PERFORMANCE

Total incurred costs of \$1,237,411 for CM Direct Services (without General Condition Items) for the period were over the plan of \$1,235,424 by \$1,987. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$28,458 and Labor expenditures (total PDCD and subcontractors) being over the plan by \$30,445.

The cumulative costs for total CM Services (including General Condition Items) incurred through November were \$6,895,349 against a plan of \$7,247,641 resulting in an under plan expenditure of \$352,292 (Page 25).

The November CPR forecasts (Page 25) a total CM Services Estimate At Completion of \$16,870,152 versus a plan of \$16,872,967 for an underexpenditure of \$2,815. Extracting the General Condition Items for separate reporting, the November CPR forecasts a CM Direct Services Estimate At Completion of \$16,076,371 versus a plan of \$16,081,667 for an under plan expenditure of \$5,296.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$52,787 was under the plan of \$64,692 for the period by \$11,905. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of \$793,781 versus a plan of \$791,300, for a projected overplan expenditure of \$2,481. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$43.70/hr. compared to a plan rate of \$44.99 (-)/hr., resulted in a difference of \$1.29 per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE
9.979167 equivalent staff over plan @ 144
hours at \$44.9895/hour =

IMPACT ON NOVEMBER COSTS

\$ 64,650



LOS ANGELES METRO RED LINE

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PERIOD NOVEMBER 1989

RATE VARIANCE

183.979167 actual staff equivalent @ 144 hours
@ \$1.29109/hour =

(34,205)

NOVEMBER COST VARIANCE TO PLAN

\$ 30,445

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of \$28,458 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS	
	BUDGET	ACTUAL	BUDGET	ACTUAL
(1)Field Office Expenses	55,300	42,745	276,500	222,627
(2)Office Equipment	3,725	650	18,625	7,394
(3)Travel & Relocation	18,142	13,838	90,709	47,501
(4)Vehicles & Maintenance	4,900	1,582	24,500	19,841
(5)Reproduction	6,050	4,489	30,250	23,143
(6)Telephone & Telex	5,950	5,686	29,750	26,647
(7)Computer Operation Support	2,292	2,158	11,459	12,554
(8)Gross Receipt Tax	7,833	7,049	39,167	37,200
(9)Field Equipment	3,975	1,512	19,875	15,177
S/T ODC's	108,167	79,709	540,835	412,084
			<u>-28,458</u>	<u>-128,751</u>

NOTES

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



LOS ANGELES METRO RED LINE

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PERIOD NOVEMBER 1989

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

	PLANNED	ACTUAL	VARIANCE	%
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH OCTOBER	\$ 3418	\$ 3392	\$ (26)	-0.76%
CURRENT MONTH	753	789	36	4.78%
CUMULATIVE THROUGH NOVEMBER	\$ 4171	\$ 4181	\$ 10	0.24%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH OCTOBER	\$ 433	\$ 332	\$ (101)	-23.33%
CURRENT MONTH	108	80	(28)	-25.93%
CUMULATIVE THROUGH NOVEMBER	\$ 541	\$ 412	\$ (129)	-23.84%
SUBCONTRACTORS				
CUMULATIVE THROUGH OCTOBER	\$ 1,838	\$ 1,707	\$ (131)	-7.13%
CURRENT MONTH	374	368	(6)	-1.60%
CUMULATIVE THROUGH NOVEMBER	\$ 2,212	\$ 2,075	\$ (137)	-6.19%
SURTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH OCTOBER	\$ 5,689	\$ 5,431	\$ (258)	-4.54%
CURRENT MONTH	1,235	1,237	2	0.16%
CUMULATIVE THROUGH NOVEMBER	\$ 6,924	\$ 6,668	\$ (256)	-3.70%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH OCTOBER	\$ 259	\$ 174	\$ (85)	-32.82%
CURRENT MONTH	65	53	(12)	-18.46%
CUMULATIVE THROUGH NOVEMBER	\$ 324	\$ 227	\$ (97)	-29.94%
TOTAL CM SERVICES				
CUMULATIVE THROUGH OCTOBER	\$ 5,948	\$ 5,605	\$ (343)	-5.77%
CURRENT MONTH	1,300	1,290	(10)	-0.77%
CUMULATIVE THROUGH NOVEMBER	\$ 7,248	\$ 6,895	\$ (353)	-4.87%
HOURS				
CUMULATIVE THROUGH OCTOBER	117,584 hrs	118,154 hrs	570 hrs	0.48%
CURRENT MONTH	25,056	26,493	1,437	5.74%
CUMULATIVE THROUGH NOVEMBER	142,640 hrs	144,647 hrs	2,007 hrs	1.41%

* OFF BY ONE DUE TO ROUNDING

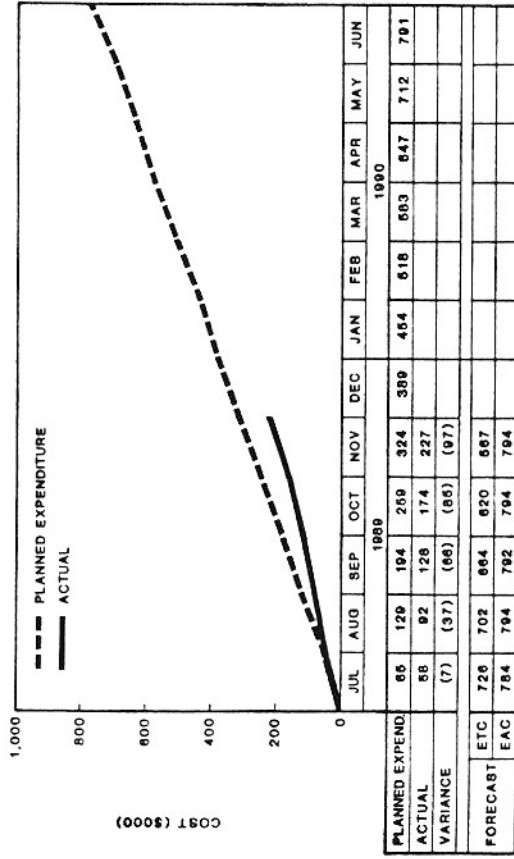
Parsons-Dillingham-De Leuw, Cather



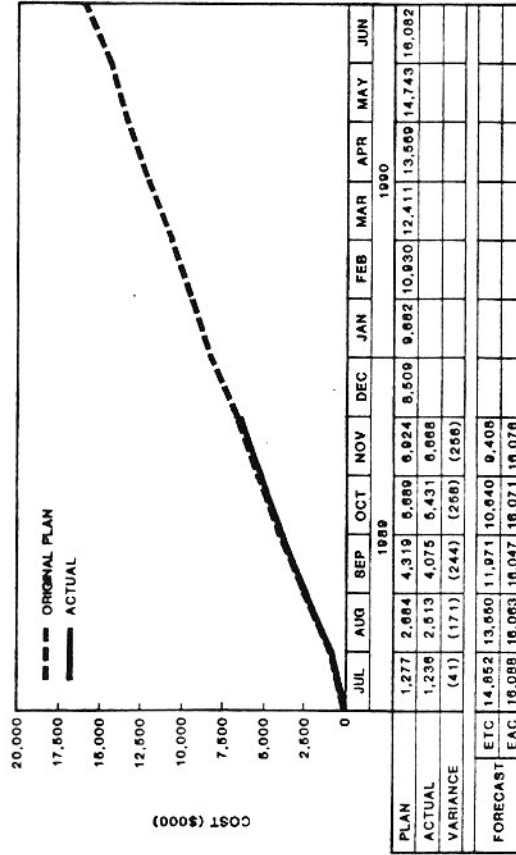
LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
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SIXTH ANNUAL WORK PLAN

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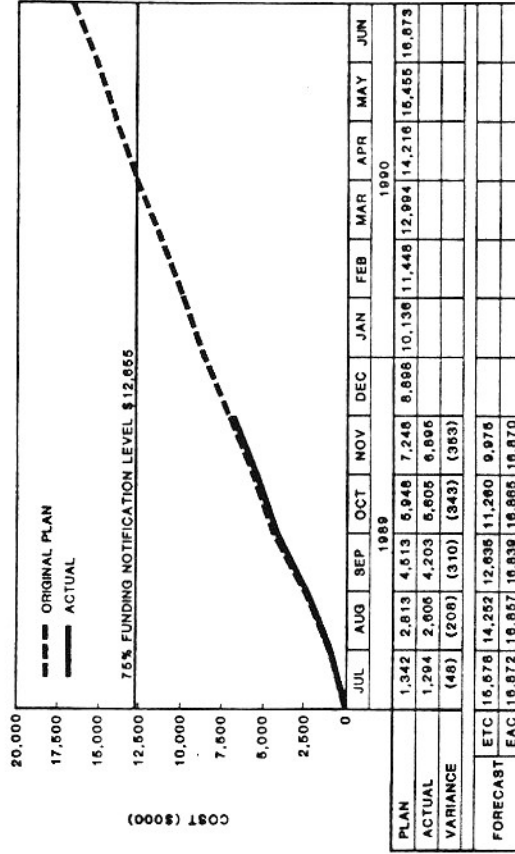
PERIOD NOVEMBER 1989



GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



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



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PDCD CM SERVICES - 6TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING NOV. 24, 1989 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION

GENERAL CONDITION ITEMS

RESPONSIBILITY CO-DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS		ESTIMATE		AT COMPLETION DOLLARS	
	BUDGET	ACTUAL	BUDGET	ACTUAL	TO COMPL	VARIANCE	BUDGET	ESTIMATE
A RODENT & PEST CONTROL	0	0	0	0	5,000	0	5,000	5,000
B GUARD SERVICES	6,000	6,095	30,000	34,925	42,000	4,925	72,000	76,925
E CLEAN-UP OF FIELD SITES	2,000	1,180	10,000	6,900	14,000	-3,100	24,000	20,900
G SIGNS AND BARRICADES	0	0	0	0	10,000	0	10,000	10,000
X CONSTRUCTION PHOTO	4,000	5,000	20,000	24,346	28,000	4,346	48,000	52,346
Y TESTING PROGRAM	52,692	40,512	263,459	160,769	467,841	-102,690	632,300	628,610
S/T GEN. COND. ITEMS	64,692	52,787	323,459	226,940	566,841	-96,519	791,300	793,781
								2,481



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PDCD CM SERVICES - 6TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING NOV. 24, 1989 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS		ESTIMATE		AT COMPLETION DOLLARS	
	BUDGET	ACTUAL	BUDGET	ACTUAL	TO COMPL	VARIANCE	BUDGET	ESTIMATE
A PROJECT MANAGEMENT	72,340	73,095	2,755	401,888	405,393	3,505	577,031	982,424
C FAC. CONSTRUCTION	389,487	431,068	41,581	2,286,034	2,304,592	18,558	3,091,647	5,113,259
E SYSTEMWIDE CONST	76,306	67,048	-9,258	399,550	358,107	-41,443	767,197	1,147,194
F GENERAL SERVICES	63,462	57,578	-5,884	352,568	328,607	-23,961	378,175	772,363
K PROJECT CONTROLS	198,304	165,213	-33,091	1,072,175	881,687	-190,488	1,389,234	2,471,628
L PROCUREMENT	14,507	13,138	-1,369	101,459	72,232	-29,227	108,110	208,485
M ENG. SVCS./SYST. INTEGR.	121,288	193,235	71,947	732,208	1,025,221	293,013	1,061,104	1,823,139
N COMMUNITY RELATIONS	12,393	6,973	-5,420	68,848	46,076	-22,772	71,768	140,616
P SAFETY	14,535	13,897	-638	80,752	70,316	-10,436	112,407	193,159
Q QUALITY ASSURANCE	18,199	14,600	-3,599	119,426	90,526	-28,900	113,962	260,163
R PROJECT ADMIN.	40,092	32,500	-7,592	222,736	210,126	-12,610	327,904	549,161
S EQUAL OPPORTUNITY	12,092	6,098	-5,994	67,176	44,755	-22,421	8,867	83,298
T LABOR RELATIONS	9,632	0	-9,632	9,632	0	-9,632	24,080	33,713
U LEGAL	0	0	0	24,000	0	-24,000	40,000	64,000
S/T LABOR-BRDN & OH	1,042,637	1,076,443	33,806	5,938,452	5,837,638	-100,814	8,071,486	13,828,669
1 FIELD OFFICE EXPENSES	55,300	42,745	-12,555	276,500	222,627	-53,873	410,100	663,600
2 OFFICE EQUIPMENT	3,725	650	-3,075	18,625	7,394	-11,231	26,075	33,469
3 TRAVEL & RELOCATION	18,142	13,838	-4,304	90,709	47,501	-43,208	146,991	217,700
4 VEHICLES & MAINT.	4,900	1,582	-3,318	24,500	19,841	-4,659	58,300	78,141
5 REPRODUCTION	6,050	4,489	-1,561	30,250	23,143	-7,107	42,350	82,800
7 TELEPHONE & TELEX	5,950	5,686	-264	29,750	26,647	-3,103	41,650	71,400
8 COMPUTER OPERATION SUPPT.	2,292	2,158	-134	11,459	12,554	1,095	16,041	27,500
9 GROSS RECEIPT TAX	7,833	7,049	-784	39,167	37,200	-1,967	54,833	94,000
A FIELD EQUIPMENT	3,975	1,512	-2,463	19,875	15,177	-4,698	27,825	47,700
S/T ODC'S	108,167	79,709	-28,458	540,835	412,084	-128,751	824,165	1,322,000
W PDCD FEE	57,500	57,500	0	287,500	287,500	0	287,500	575,000
X S/C FEE	27,120	23,759	-3,361	157,395	131,187	-26,208	224,811	355,998
S/T FEES	84,620	81,259	-3,361	444,895	418,687	-26,208	512,311	930,998
S/T CM DIRECT SVCS	1,235,424	1,237,411	1,987	6,924,182	6,668,409	-255,773	9,407,962	16,081,667
S/T GEN. COND. ITEMS	64,692	52,787	-11,905	323,459	226,940	-96,519	566,841	791,300
TOTAL CM SERVICES	1,300,116	1,290,198	-9,918	7,247,641	6,895,349	-352,292	9,974,803	16,872,967
PERCENT OF BUDGET EXPENDED = 41%								
NEGATIVE VARIANCE INDICATES UNDERRUN								

PARSONS-DILLINGHAM-DE LEUW, CATHAR

SECTION VI

ADDITIONAL ACTIVITIES

PERFORMED IN NOVEMBER

MTA LIBRARY



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VI. ADDITIONAL ACTIVITIES PERFORMED IN NOVEMBER

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

A. Administration And Accounting

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

B. Quality Assurance

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

Site Inspection:

- o A130, A145 - Inspection of welds on starpacks, kneebrace supports, walers and struts during excavation.
- o A135 - Inspection of welds on Wet Standpipe and Elevator systems.
- o A145 - Inspection of bulkhead strut welds for tunnel supports and rebar welds on wall dowel modification.
- o A141 - Evaluation and inspection of welds on steam and chilled water lines for the Law Library.
- o A145, A165, A175 - Inspection of welds during installation of permanent structures.

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 Angeles Steel - Inspection and monitoring of stud welding subcontracted from Paramount Metals.



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- o Scott Company - Inspection of Wet Standpipe and Hydraulic piping system spool pieces (A135, A145, A165).
- (2) Continued to monitor on-site testing and Smith-Emery test laboratory activities.
- (3) Witnessed system pressure tests for A145 Hydraulic Oil Lines.
- (4) Witnessed pressure test for A141 Wet Standpipe spool.
- (5) Witnessed system pressure test for A171 Fire Lanes.
- (6) Witnessed system pressure test for A610/115 Fire Lines, Domestic Water and Natural Gas Lines.
- (7) Inspected welded joints on A145 Deluge Lines.
- (8) Participated in A112 contract close-out activities.
- (9) Participated in Safety Certification Review Team Audit of contract A171.
- (10) Conducted QA review of approximately 142 contractor submittals for various contracts.
- (11) Monitored Smith-Emery concrete test reports.
- (12) Inspected installation and monitored testing of HDPE on contract A135.

C. Equal Opportunity Administration

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

D. Contracts and Procurement

- (1) Made contractual arrangements with qualified company to control (trap and dispose of) rodents at A165 and A167 jobsites.
- (2) Issued 31 purchase orders for miscellaneous supplies and equipment.
- (3) Continue to administer 19 active subcontractors issued by PDCD in support of project.

E. Community Relations

- (1) Coordinated community notifications for A141, A145, A146, A165 and A175 affected by lane restrictions and/or street closures.



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- (2) Coordinated and resolved traffic mitigation concerns for tenants along Hill Street affected by A141, and A145 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 (under 7th Street).
- (3) Provided assistance to A141, A145, A146 and A165 for problems caused by blocked access, noise, lack of visibility, accidents, security and general construction activities.
- (4) Provided assistance to PDCD/RTD in responding to media requests and coordinating 4 site visits.
- (5) Processed 20 inquiries/complaints.
- (6) Provided assistance to RTD/LGCA for the coordination of the December 14 Community Awareness Meeting for 5th/Hill Street area tenants.
- (7) Provided assistance to Grand Central Market (A145) during relocation of A141 tunnel mining equipment.
- (8) Coordinated and resolved traffic mitigation concerns for tenants along 5th Street during soldier pile installation (A145).

F. Safety and Security

- (1) Performed site safety, health and security surveillances and prepared written reports for the A112, A130, A135, A141, A145, A146, A165, A167, A171, A175, A610/115 and A631 construction contracts.
- (2) Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service subcontractors.
- (3) Performed site safety surveillances with DIA Director of Safety. Prepared written reports. Reviewed video stills with contractors' management staff (A141 contractor refused to participate) and PDCD Resident Engineers' staff.

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 (4985) and A795; monitoring of Master Agreement Work and submittal reviews.
- (2) Continued coordination of traffic control plans and street closures with city agencies for A130, A141, A145, A146, A165, and A175.
- (3) Continued coordination of MOS-1 Inspection with LADOT.
- (4) Processed a total of 18 Traffic and Utilities related submittals and three Master Agreement invoices.



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- (5) Continued monitoring of groundwater and construction water discharges at A130, A135, 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 October Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (8) Prepared and submitted October LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (9) Negotiated a two year permit with the South Coast Air Quality Management District (SCAQMD) for excavation of contaminated soil.
- (10) Continued checking contractor's control points and layout at various construction sites.
- (11) Continued location survey at shop and yards contracts.
- (12) Continued walkway as-builts survey for AR and AL tunnels (A 171);
- (13) Completed A146 AR tunnel as-built.
- (14) Started MOS-1 Primary Control Survey.

H. Engineering Services

- (1) Began preparation for teaching tunnel geology mapping to A130 construction inspectors.
- (2) Reviewed the draft Civic Center Station strut overload study by RTD consultant, J. P. Gould.
- (3) Completed coordination with Gould for his oral presentation on the Civic Center Station strut overload study.
- (4) Completed arrangements for A141 Contractor to monitor changing loads on still-stressed Civic Center Station struts in each wall zone prior to and following the destressing of struts in adjacent zones.
- (5) Began logging geologic exposures and monitoring magnetometer surveys in the A141 AL North Tunnel.
- (6) Began revising PDCD's draft A145 Design Criteria Verification Study Task B Report after receiving review comments from MRTC and RTD consultant J. P. Gould.
- (7) Estimated the effort expended by PDCD on the A145 Design Criteria Verification Study Task B Report.
- (8) Processed 14 field inquiries with MRTC to obtain clarification of design requirements.
- (9) Responded to 160 requests for information or documentation clarification from various contractors.
- (10) Completed claims avoidance review of Contract A157 5th/Hill Station Stage II, final design and Contract A147 Civic Center Station Stage II, final design.
- (11) Continued comprehensive reviews of electrical embedments on Contract A145.
- (12) For Contract A112 - Approved-as-Noted 4 Contractor submittals for O and M manuals, and Elevators.



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- (13) For Contract A130 - Approved 4 Contractor submittals for Rebar Mill Certificates, Magnetometer probes, and concrete sealant.
Approved-as-Noted 8 Contractor submittals for Motor Control Centers, form drawings mil tests, piping layout, valve wall bracket, and chemical grouting.
Rejected 4 Contractor submittals for Dry type transformer, panel installation and stub up details, welding procedure qualification records, and tunnel exploratory holes.
Reviewed for Record Only 1 Contractor submittal for Tunnel Laser.
- (14) For Contract A135 - Approved 17 Contractor submittals for Lift drawings, rebar details, responses for review comments, product data, rebar mill test certificates, ground mat test, and welder and welding procedures.
Approved-as-Noted 18 Contractor submittals for Lift drawings, embedments, responses to review comments, piping and fittings, frames and grates, shoring layout and design, rebar details, casing and HDPE liner for elevator, PVC form lines, and product data.
Rejected 3 Contractor submittals for Electrical lift drawings, HDPE welders certificates, and HDPE QC certificates.
- (15) For Contract A135 BH (Baggage Handling) - Approved 4 Contractor submittals for Bus shelter columns, floor covering, unit substation factory test, and partial plan A-261.
Approved-as-Noted 4 Contractor submittals for Fire valve pit, refrigeration piping, automatic door openers, and millwork.
Rejected 3 Contractor submittals for THWN wire, toilet details, and fire sprinkler drawings and calculations.
- (16) For Contract A141 - Approved 9 Contractor submittals for Pipe sleeves, supports and concrete inserts, mill certificates, concrete lift drawings, welder certifications, concrete reinforcement, and HDPE employee certificates.
Approved-as-Noted 18 Contractor submittals for Shoring drawings, concrete lift drawings, rebar drawings, reshoring design calculations, and controlling traffic.
Rejected 1 Contractor submittal for Welding procedures.
Reviewed for Record Only 1 Contractor submittal for Welders changing status.
- (17) For Contract A145 - Approved 9 Contractor submittals for Electrical update, concrete lift drawings, welders qualifications, and rebar drawings.
Approved-as-Noted - 37 Contractor submittals for misc. metal, coil anchors and adhesive anchors, lift drawings, falsework drawings and calculations, rebar splice, column forms, South bulkhead staging, N.E. entrance excavation support, water main support, rebar drawings, and temporary sewer line B.



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- Rejected 4 Contractor submittals for Restrutting columns, S.E. entrance wale supports and brackets, rebar proposal upper wall area, and 5th Street deck beams.
- (18) For Contract A146 - Approved 3 Contractor submittals for Traffic control plan, AL tunnel survey, and Clifton's building basement wall restoration.
- Approved-as-Noted 2 Contractor submittals for Revised monthly progress report, and temporary support of pump station sump.
- (19) For Contract A165 - Approved 26 Contractor submittals for Rebar drawings, piping certificates of compliance, ductile iron pipe, lift drawings for columns, walls, slabs and stairs, and rebar mill test reports.
- Approved-as-Noted 10 Contractor submittals for Rebar drawings, welding procedure, and lift drawings for walls, slabs and columns.
- Rejected 2 Contractor submittals for Base slab lift drawings.
- (20) For Contract A167 - Approved 5 Contractor submittals for Monthly progress schedule report, reinforcement concrete equipment pads, adhesive anchor system, custom switchgear and controls, and cable.
- Approved-as-Noted 8 Contractor submittals for Monthly Progress Status Reports, concrete grouting CMU, plumbing equipment and materials, fire dampers, air distribution registers and grills, HVAC layout plan, and dry type transformers.
- Rejected 4 Contractor submittals for Standpipe, HVAC equipment, hydraulic calculations, and heat pumps.
- (21) For Contract A175 - Approved 2 Contractor submittals for Lighting boxes, and reinforcement steel.
- Approved-as-Noted 2 Contractor submittals for Traffic control plan for Westlake detour, and rebar welding procedures.
- Rejected 2 Contractor submittals for Monthly schedule revision, and Manufacturer's data.
- (22) For Contract A610 - Approved 9 Contractor submittals for Test reports on crushed aggregate, 2" plug valve, 3" flanged wrench, rail welding schedule-string diagrams, subway narrative, and yard leads, transition slab reinforcement, and monthly progress status report.
- Approved-as-Noted 2 Contractor submittals for QA/QC program for trackwork, and revised Part II CPM schedule.
- (23) For Contract A616 - Approved 3 Contractor submittals for Monthly progress report, production fastener test results, and production elastomer test results.
- (24) For Contract A620 - Approved 9 Contractor submittals for QA/QC program, Union Station and Wilshire/Alvarado FDR release corrections, JB installation drawings, ATC qualifications tests, 72 hour burn-in procedure, and ATC acceptance tests.
- Approved-as-Noted 7 Contractor submittals for Barchart schedule and narrative, vehicle equipment



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qualification test procedures, procedure for A + P mechanism, mainline and yard bonding installation, and 72 hour burn-in procedure.

Rejected 2 Contractor submittals for ATC vehicle qualification test procedure, and 72 hour burn-in test results.

- (25) For Contract A630 - Approved 5 Contractor submittals for Auxiliary power transformer, test procedure for rectifier transformers, test procedures for auxiliary power transformer, and factory test reports on switchgear.

Reviewed for Record Only 1 Contractor submittal for Barchart report.

- (26) For Contract A631 - Rejected 4 Contractor submittals for Monthly progress report and narrative, negative bus boxes, pre-engineered metal building, and asphalt concrete pavement.

- (27) For Contract A640 - Approved 3 Contractor submittals for Public address subsystem, RCC communication equipment, and radio subsystem.

Approved-as-Noted 5 Contractor submittals for SCADA subsystem, equipment room floor, mobile radio equipment subsystem, fixed end radio equipment, and CCTV subsystem.

- (28) Rejected 1 Contractor submittal for SCADA subsystem functional requirements custom software.

- (29) For Contract A732 - Approved-as-Noted 1 Contractor submittals for Barchart schedule and narrative.

- (29) For Contract A740 - Approved 6 Contractor submittals for Test reports - EF/SVF fan blades, EF fans, SVF fans, sound attenuator air leakage, UF/OTE fans, and monthly progress report schedule update.

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

I. PROJECT CONTROLS

- (1) Processed Change Requests: A112-CR-086, A135-CR-055, A141-CR-123, A141-CR-125, A141-CR-126, A141-CR-137, A146-CR-041, A146-CR-043, A145-CR-159, A146-CR-041, A146-CR-043, A165-CR-089, A165-CR-098, A165-CR-107, A165-CR-109, A171-CR-008, A171-CR-032, A175-CR-058, A175-CR-082, A175-CR-084, A610-CR-080, A610-CR-088, and A610-CR-089.

- (2) Processed Change Notices: A130-CN-022, A130-CN-024, A135-CN-006, A145-CN-045A, A145-CN-048, A145-CN-049, A145-CN-050, A145-CN-051, A165-CN-039, A165-CN-104, A175-CN-036, A175-CN-037, A175-CN-038, A175-CN-040, A175-CN-041, A610-CN-040, A616-CN-003, A616-CN-012, and A620-CN-028.

- (3) Processed Change Orders: A112-CO-046, A112-CO-063, PT. I, A112-CO-064, A112-CO-065, A130-CO-011 1A, A130-CO-029, A130-CO-032, A135-CO-002Z, A135-CO-002ZJ, A135-CO-002ZK, A135-CO-002ZL, A135-CO-002ZJ, A135-CO-032, A141-CO-060, A141-CO-062, A141-CO-063, A145-CO-095, (REV), A145-CO-098, A146-CO-021J, A146-CO-021Z, A146-CO-029 PT. I, A146-CO-031, A165-CO-035B, A165-CO-057, A165-CO-058, A165-CO-060,



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- A167-CO-002, A167-CO-002A PT. I, A167-CO-004, A167-CO-006, A171-CO-015, A171-CO-018, A171-CO-075, A175-CO-043, A175-CO-044, A175-CO-044C, A175-CO-048, A175-CO-049, A175-CO-055, A175-CO-060, A175-CO-075, A175-CO-076, A175-CO-081, A175-CO-082, A175-CO-083, A610-CO-051, A610-CO-056, A610-CO-062 PT. A610-CO-063, A610-CO-064, A610-CO-065, A610-CO-066, A610-CO-067, A610-CO-068 PT. I, A610-CO-069 PT. I, A610-CO-082A, A612-CO-002, A615-CO-003, A616-CO-012, A630-CO-002, A630-CO-062, A640-CO-010, A650-CO-003, A650-CO-020, and A752-CO-002.
- (4) Processed through TRACS, 26 executed Change Orders: A112-CO-040A, A112-CO-049A, A112-CO-063, A-130-CO-029, A135-CO-002ZL, A135-CO-002ZN, A135-CO-032, A145-CO-031A, A145-CO-098, A145-CO-099, A146-CO-021I, A165-CO-022, A165-CO-035B, A165-CO-054, A167-CO-003, A171-CO-008A, A175-CO-043, A175-CO-044B, A175-CO-044C, A175-CO-048, A175-CO-049, A610-CO-048, A610-CO-062A, A610-CO-063, A610-CO-064, and A610-CO-066.
- (5) Processed Potential Claims: A112-PC-070, A112-PC-072, A130-PC-014, A141-PC-002 AND A165-PC-154.
- (6) Processed Change - Technical Evaluation: A135-CR-055.
- (7) Processed Force Account Change Packages: A141-CO-025, and A141-CO-021G.
- (8) Processed Monthly Payment Estimates for 21 Contracts: A112, A130, A135, A141, A144, A145, A146, A165, A167, A171, A175, A610/115, A612, A616, A620, A631, A640, A710, A740, A745, and A755.
- (9) Completed a close-out reconciliation on 3 Force Account Change Orders: A141-CO-025, A141-CO-021F, and A165-CO-019A.
- (10) Prepared liquidated damages calculations for 3 Stage II contracts: A136, A157 and A187.
- (11) Reviewed Contractor Monthly Progress Reports.
- (12) Prepared Scheduling inputs to RTD Monthly Status Report.
- (13) Prepared Quarterly Update (designated Revision 7B) for Level III Schedule.
- (14) Approved-as-noted A167 and A165 Part II Schedule submittal.
- (15) Review in progress for Part II Schedule revision from A175.
- (16) A-130-CR-026A Completed a revised estimate for revised communication ductbank and attended negotiations meeting.
- (17) A-130-CR-031 Completed structural phase of estimate for incoming electrical service room.
- (18) A-130-CR-038 Review Scope of Work and begin estimate for extending 48" diameter underpinning piers.
- (19) A-135-CR-004, CR-032 Continued to review changes and proposals, attended negotiations related to LAUPT Baggage Handling and Police Room.
- (20) A-135-CR-011 Completed estimate for west entry changes.
- (21) A-136 Stage II Completed review of contract documents and MRTC estimate and prepared construction schedule.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

- (22) A-141-CR-011 Access delay to Union Station, reviewed contractors (subcontractors) proposals, prepared estimates, schedules and analysis, attended negotiations.
- (23) A-141-CR-104 Completed estimate for revisions to water service and corporation control.
- (24) A-145-CR-132 Began estimate on increased elevator hoistway and related work.
- (25) A-146-CR-038 Prepared estimate for walkway and wet standpipe changes.
- (26) A-165 Completed final decking quantity takeoff.
- (27) A-165-CR-075 Completed estimate, combined wet standpipe and sprinkler system, reviewed contractor proposal, attended negotiations.
- (28) A-167-CR- Prepared estimate for sandblasting entry at Home Savings.
- (29) A-171-CR-008 Prepared quantity takeoff shaft concrete credit.
- (30) A-171-CR-027 Prepared quantity takeoff and material prices for fire protection valve pit deletion.
- (31) A-175-CR-035 Reviewed contractor revised proposal, incoming electric service room, attend negotiations.
- (32) A-175-CR-046, 054, 055 Reviewed contractor proposals.
- (33) A-175-CR-081 Prepared quantity takeoff, shaft excavation and reviewed contractor proposal.
- (34) A-175-CR-082 Researched data for resteel couplings.
- (35) A-732-CR Began estimate for installation of wheel press and boring machine.
- (36) General Reviewed Force Account wage rates and equipment rates in support of field offices. Reviewed miscellaneous estimates as received from contractor.

J. CM Meetings in November 1989

Date	Agency/Company	General Subject
November 1	RTD/PDCD	Electrical conduit routing in Roosevelt Bldg. (A165).
November 1	RTD/TSP & Sub.	A130-CR-038 scope of work; extend depth of 48" diameter piers underpinning busway bend number four.
November 1	SCRTD, LAFD, LACCD, BAH	F/LS - Security
November 2	SCRTD, LAFD, LACOD, BAH,	F/LS - Safety
November 2	RTD/IG	DOT/IG AUDIT
November 2	RTD/TSG & Subs	A141-CR-011 Access delay, reviewed and discussed subcontractors proposals.



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November 4	LADOT/PDCD	Construction hours Holiday restrictions (MOS-1).
November 6	RTD/MRTC	SCRID audit of A112
November 6	RTD	A136 - Stage II schedule review and analyses.
November 7	MRTC/PDCD	A146 AR Tunnel alignment
November 7	MRTC	A146 AL Tunnel realignment
November 7	RTD/Granite	A167 - Reviewed scope of work and sandblast quantities at Home Savings entry. Monthly utilities meeting.
November 8	Substructure	A1441-CR-011 Reviewed Wagner Construction access delay proposal, and preliminary audit data.
November 8	RTD	Hill & Flower Streets simultaneous closures.
November 9	LADOT/PDCD	A141-CR-011 Access delay, reviewed revised delay proposals; negotiations.
November 9	RTD/TSP & Subss.	A141-CR-011 Access delay, reviewed auditors findings and supplemental data.
November 9	RTD	A130-CR-026A Communications, ductbank connections to Metro Rail, LAFD, and Pac Bell negotiations.
November 10	RTD/MRTC/TSP & Sub	Closeout Planning
November 13	RTD/A171PE	A141 Destressing/strut removal plans
November 13	MRTC	A130 Instrumentation
November 13	TSP	Scaffolding
November 13	Cal OSHA, TS/G, DIA,	Renewal of DOHS variance for Macy/Vignes hazardous materials storage yard.
November 14	LA County	Witness shop test
November 14	DOHS/PDCD	A145 Electrical Embedments
November 14	A146 INSPECTOR	A175-CR-035 Revisions to incoming electric service room, negotiations, new proposal received.
November 14	Atkinson	
November 14	RTD/TSP	



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November 15	RTD/TSG	A141-CR-011 Access delay, discussed contractors Home office overhead and profit.
November 15	RTD/Granite	A-165 General review final decking quantities.
November 15	RTD	A141-CR-011 Access delay, review Wagner Construction data with auditor.
November 16	Grand Central Market	A141 street closures--mining machine relocation
November 16	Contractors, SCRTO, DIA, Argonaut.	Project Safety
November 17	MRTC	A141 Instrumentation
November 17	MRTC	A130 Tunnel Probing
November 17	RTD/TSP	A135-CR-004, CR-032 Scope of work and negotiations for gypsum board, fireproofing changes LAUPT Baggage Handling and police room.
November 21	A171/RE/PE	Closeout walkthru
November 21	TSP/GKN-HB	A130 Chemical Grouting and tunnel probing
November 21	RTD/Granite & Sub.	A165-CR-075 Negotiations, combined wet standpipe and sprinkler system changes.
November 22	MRTC	A130 Chemical Grouting and tunnel probing



SECTION VIII

SUBCONTRACTOR/CONSULTANT

STATUS



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

VII. SUMMARY OF ACTIVITIES PLANNED FOR DECEMBER 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 to support facilities and systems contracts.
- (2) Continue to monitor on-site testing activities and Smith-Emery laboratory activities.
- (3) Continue to support Factory Acceptance Testing activities in support of systems contracts.
- (4) Continue review of contractor submittals.
- (5) Continue audits of system contracts.
- (6) Continue participation in contract closeout activities for Contract A112 and A171.
- (7) Witness off-site pressure testing for Wet Standpipe System components for Contract A146.

C. Equal Opportunity Administration

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

D. Contracts and Procurements

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



LOS ANGELES METRO RED LINE

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- (2) Upon receipt of District approval, issue Amendment to Consulting Agreement with F. E. Endacott & Associates for an increase in AWP-6 funding.
- (3) Issue Request for Proposal for laboratory testing of elastomeric materials, receive and evaluate proposals, and submit recommendation to District for approval to award subcontract.
- (4) Issue Request for Proposal for blanket arrangements for "as-required" consulting estimating services.
- (5) Submit Amendment to District for approval to add Senior Planner/Scheduler position to Kal Krishnan's subcontract.

E. Community Relations

- (1) Continue tenant notifications on traffic access issues for A141, A145, A146, A165 A167 and A175.
- (2) Continue expanded communication activities with A130, A145, A146, A165 and A175 tenants regarding ongoing and pending construction activities.
- (3) Assist RTD/Local Government and Community Affairs in planning and executing community outreach to Building Managers in the downtown area, including extending promotional activities for the Project Streetwise Hotline and the Information Centers.
- (4) Continue implementing CR Work Plan, conduct community presentations, the dissemination of construction information; and responding to complaints and inquiries.
- (5) Assist RTD/LGCA in planning the next Community Awareness Meeting for the 5th/Hill Street area tenants.
- (6) Coordinate traffic access plans for the Holiday Season with LADOT and the Traffic Management Department.
- (7) Update CR tenant mailing list, emergency contact information and CR merchant files.
- (8) Continue to assist PDCD/RTD with site visits and media requests.

F. Safety and Security

- (1) 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) Continue work on revisions/modifications to specifications and CSSM.
- (6) Revise the Emergency Response Plan.
- (7) Continue site safety visits with DIA Director of Safety and using video stills as an aid.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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G. Construction Operations

- (1) Continue construction management (CM) services at Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750 (4985) 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 A130, A135, A141, A144, A145, A146, A165, A171 and A175.
- (5) Continue monitoring Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
- (6) Prepare and submit November Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (7) Prepare and submit November LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (8) Continue to monitor instrumentation, building and ground settlement marks, and various contracts.
- (9) Continue to check Contractor's control points and layout.
- (10) Continue to perform survey tasks as requested by RES.
- (11) Continue to perform as-built survey of tunnels for Contracts A141.
- (12) Continue location surveys in shop and yards contracts.
- (13) Continue to check concrete pours for various contracts.
- (14) Continue control survey through AR and AL's Tunnels (A171).
- (15) Continue MOS-1 Primary Survey.

H. Engineering Services

- (1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
- (2) Update report on A145 Design Criteria Verification Study, Task B.
- (3) Meet with RTD Consultant, J. P. Gould on A141 Station strut overload study.
- (4) Instruct A130 inspectors in tunnel geology mapping.
- (5) Continue to process Contractor's submittals for Contracts A112, A130, A135, A135BH, A141, A145, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A631, A640, A710, A732, A740, A745, A750, and A795.



LOS ANGELES METRO RED LINE

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- (6) Continue production of A161 as-built drawings.
- (7) Continue comprehensive review of electrical embeddings on Contract A145.

I. Project Controls

- (1) Process Monthly Payment Estimates for all active contracts.
- (2) Process through TRACS all the executed Change Orders.
- (3) Continue close-out reconciliations for Force Account Change Orders.
- (4) Review Contractor Monthly Progress Status Reports.
- (5) Prepare Scheduling inputs to RTD Monthly Progress Report.
- (6) Complete review of Part II Schedule revision for A175.
- (7) Review initial A631 Part II Schedule Submittal.

SECTION VII

SUMMARY OF ACTIVITIES

PLANNED FOR DECEMBER



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

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

NOVEMBER 24, 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	07/08/89	07/10/89	07/27/89	\$388,110	07/27/89	SIXTH AWP

••IN PROCESS



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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SIXTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

NOVEMBER 24, 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	SUBWAY TERMINAL BLDG (A145/146 SITE OFFICE LEASE)											
	AMEND. NO. 2	N/A	N/A	N/A	N/A	06/30/89	06/30/89	05/25/89	05/30/89	\$58,000	06/30/89	1 YR EXTENSION

**IN PROCESS

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
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SIXTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

NOVEMBER 24, 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-3389-1	MARY & SON MAINTENANCE (SITE CLEAN-UP)	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 AMP
37-SC-3389-1	KAL KRISHNAN	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 AMP
39-SC-3389-1	D'LEON CONSULTING ENGINEERS CO.	08/07/89	N/A	N/A	N/A	07/14/89	07/19/89	07/19/89	08/04/89	\$170,670	08/08/89	SCOPE/FUNDS INCR
40-SC-3389-1	TRANSMETRICS	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 AMP
41-SC-3389-1	W. B. EVANS & ASSOCIATES (CONSULTING AGREEMENT)	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 AMP
42-SC-6669-1	MANPOWER	07/11/89	06/09/89	06/30/89	N/A	08/08/89	08/17/89	07/07/89	08/04/89	\$40,750	08/17/89	FUNDS INCREASE
43-SC-3389-1	P. E. ENDACOTT & ASSOCIATES (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 AMP
44-SC-3389-1	E. D. GREENAWALT (CONSULTING AGREEMENT)	09/19/89	N/A	N/A	N/A	10/03/89	10/03/89	10/03/89	10/24/89	\$18,500	10/26/89	FUNDS INCREASE

**IN PROCESS



SECTION IX

**CONSTRUCTION PROGRESS
PHOTOS**





LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

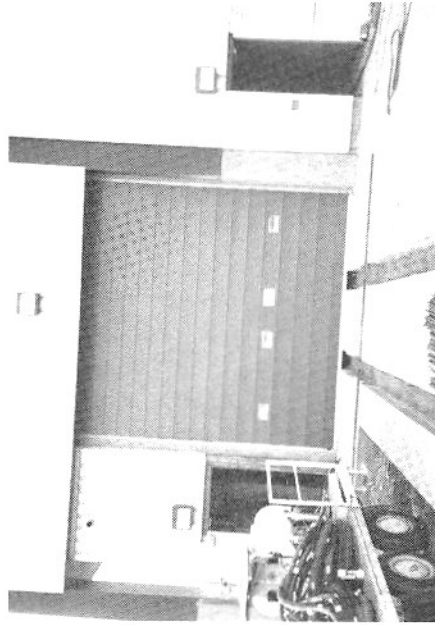
PDCD

PERIOD NOVEMBER 1989

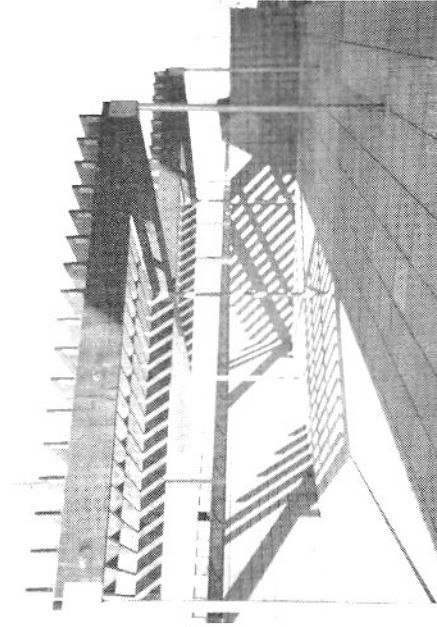
MAIN SHOP BUILDING CONTRACT A112



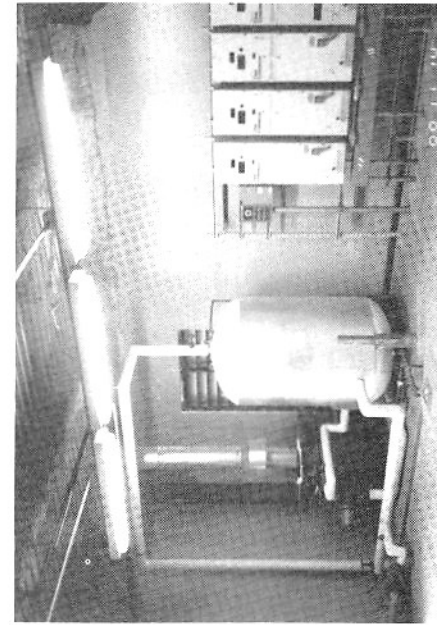
COMPLETED LOADING DOCK AND CANOPY



NORTH END OF THE BLOWDOWN AREA AND
ENTRANCE TO CONTROL TOWER



COMPLETED LUNCH PATIO



MECHANICAL EQUIPMENT ROOM #301



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD NOVEMBER 1989

MAIN SHOP BUILDING
CONTRACT A112 (Contd)



LOBBY #234



CORRIDOR #241



OPERATIONS ROOM #245



ROOM #117, MENS RESTROOM



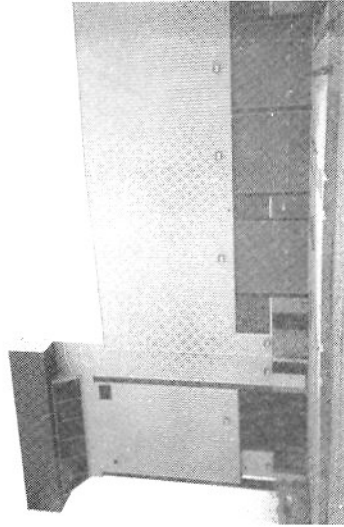
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

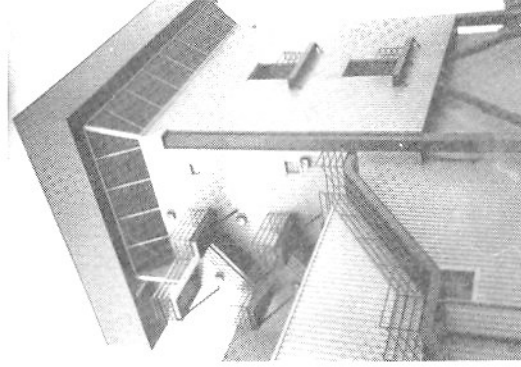
PDCD

PERIOD NOVEMBER 1989

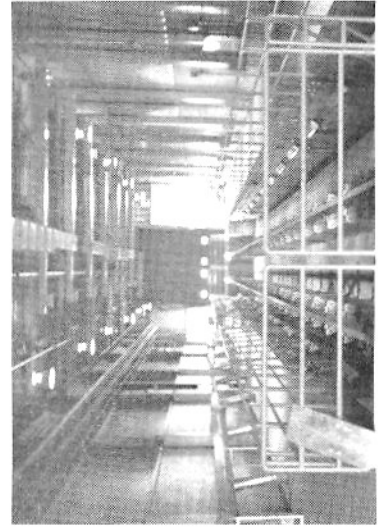
MAIN SHOP BUILDING CONTRACT A112 (Contd)



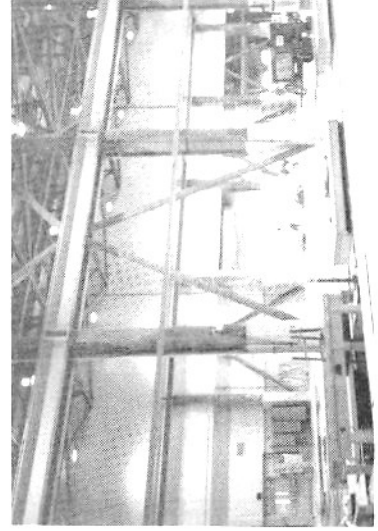
CONTROL TOWER



CONTROL TOWER



BLOWDOWN AREA



MAIN REPAIR SHOP

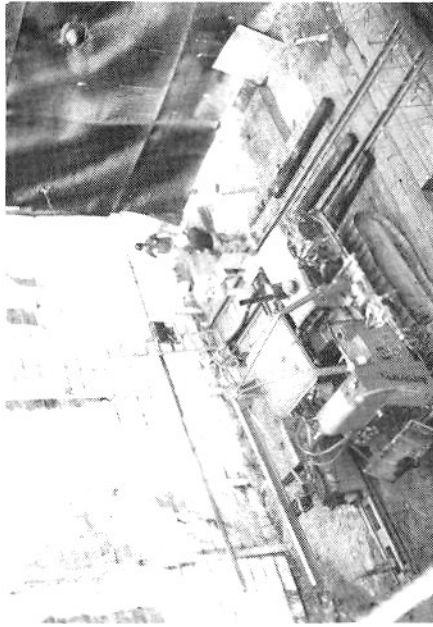


LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

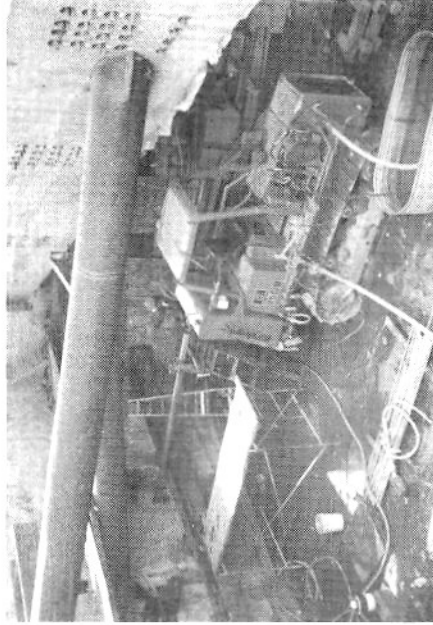
PDCD

PERIOD NOVEMBER 1989

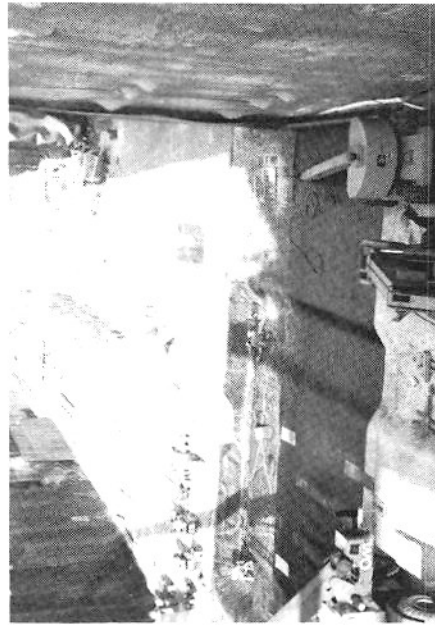
YARD LEADS & TRANSFER ZONE CONTRACT A130



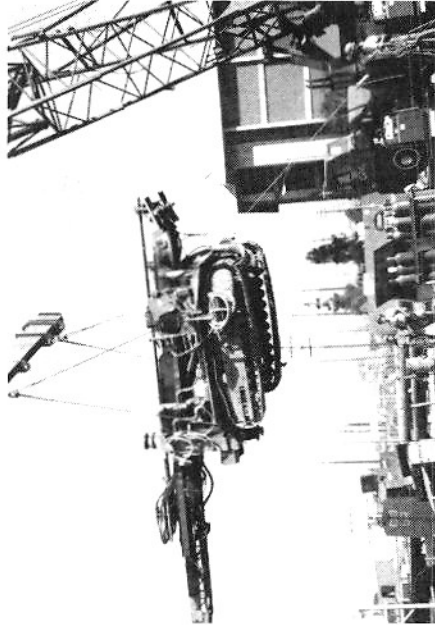
HAYWARD BAKER PREPARING FOR DRILLING
OF MAGNETOMETER HOLES



DRILLING HORIZONTAL GROUT HOLES FOR
CHEMICAL GROUTING PRIOR TO TUNNEL EXCAVATION



MUD MAT ON TOP OF HDPE UP TO WP4,
HDPE PROGRESSING TOWARD WP1



NICHOLSON CONSTRUCTION CO. DRILL RIG BEING LOWERED
INTO BOX STRUCTURE FOR TIEBACK INSTALLATION

Parsons-Dillingham-De Leuw, Cather



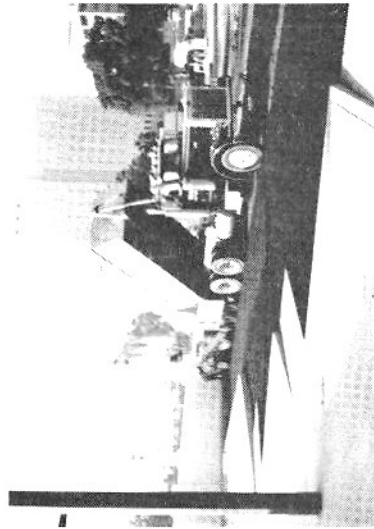
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD NOVEMBER 1989

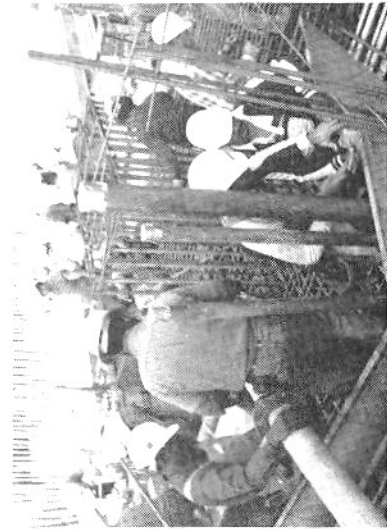
UNION STATION CONTRACT A135



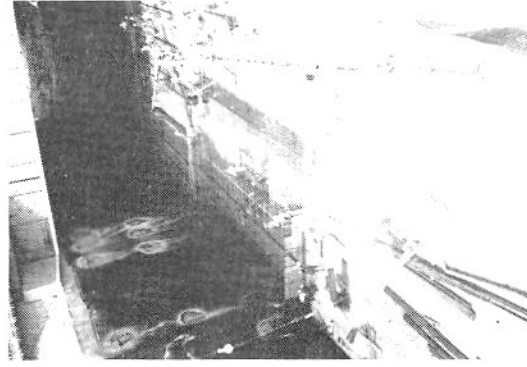
PAVING OF THE LOWER PARKING LOT ON
THE WEST SIDE OF THE BAGGAGE
HANDLING FACILITY



ARCHAEOLOGISTS UNCOVER BUILDING FLOOR
THAT WAS PART OF OLD CHINA TOWN



WORKERS GETTING FORM, REBAR AND
UTILITIES READY FOR CONCRETE POUR IN LIFT #3A



VIEW OF THE STATION SHOWING THE
PLACEMENT OF LIFT #5A AND REBAR
AND UTILITIES IN LIFT #4A

Parsons-Dillingham-De Leuw, Cather



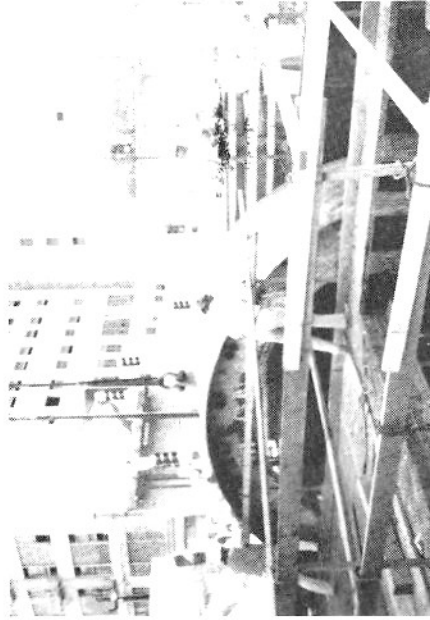
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

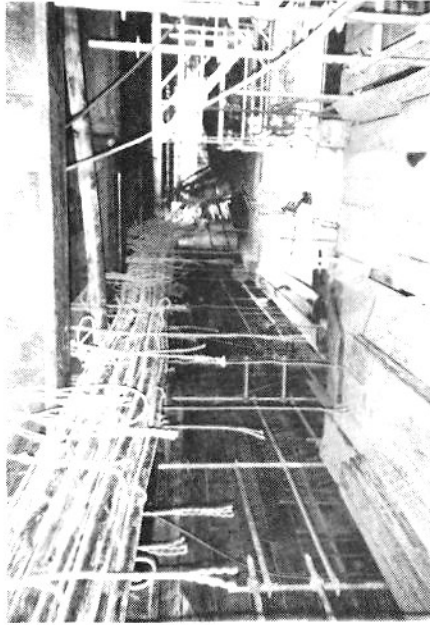
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PERIOD NOVEMBER 1989

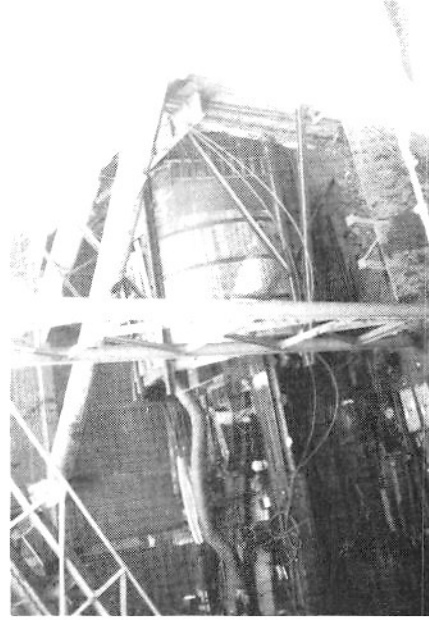
CIVIC CENTER STATION AND TUNNEL A141 CONTRACT



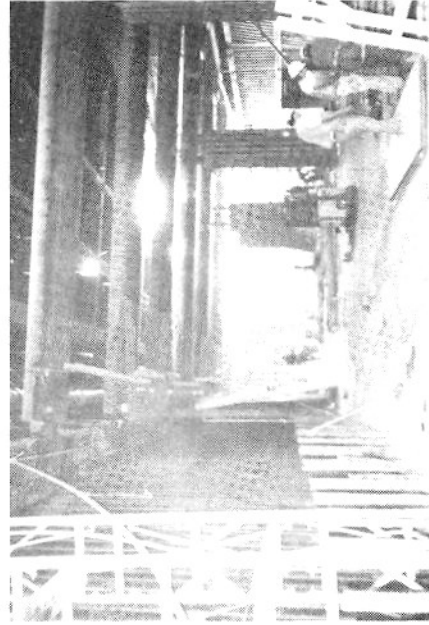
REMOVING FRONT SECTION OF TUNNEL SHIELD
AFTER AR SOUTH TUNNEL EXCAVATION



RELOCATING PACIFIC BELL 30/24 TELEPHONE
DUCTBANK



AL NORTH TUNNEL DRIVE AT UNION STATION SHAFT
(FINAL TUNNEL SEGMENT)



CIVIC CENTER STATION ANCILLARY LEVEL



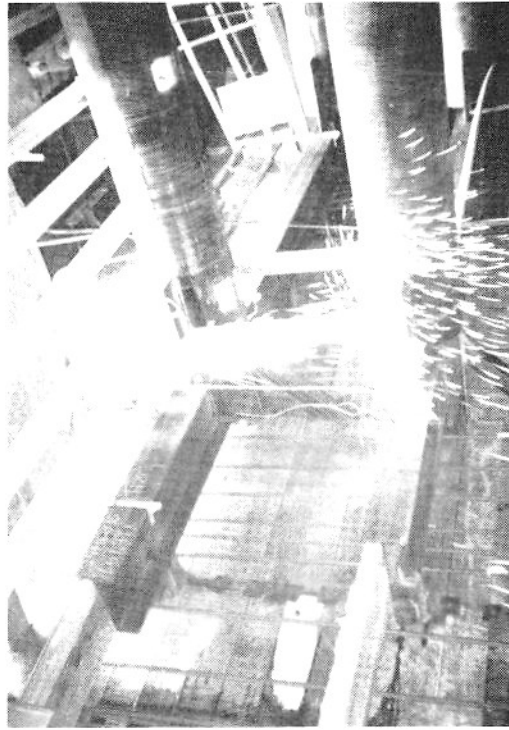
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

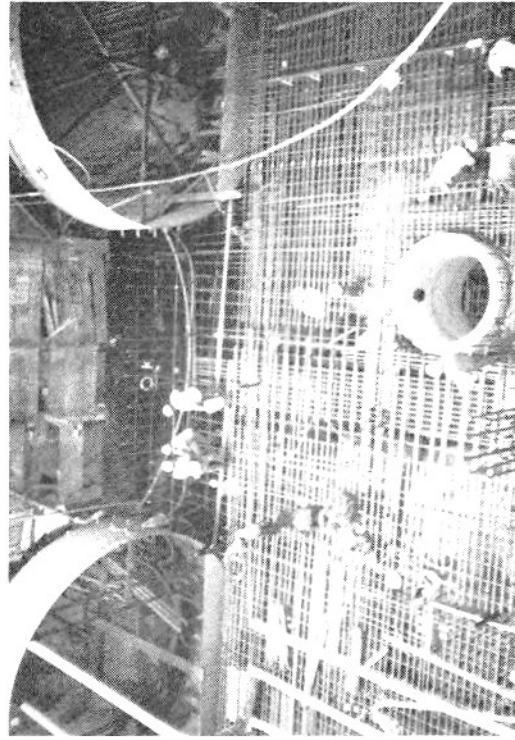
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PERIOD NOVEMBER 1989

CIVIC CENTER STATION AND TUNNEL CONTRACT A141 (Contd)



CUTTING B LEVEL STRUT FOR REMOVAL



REBAR INSTALLATION FOR INVERT #10



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

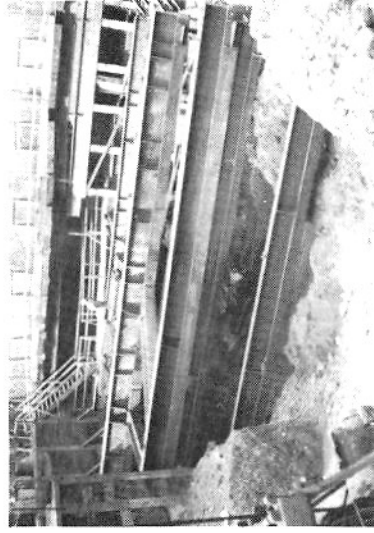
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PERIOD NOVEMBER 1989

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



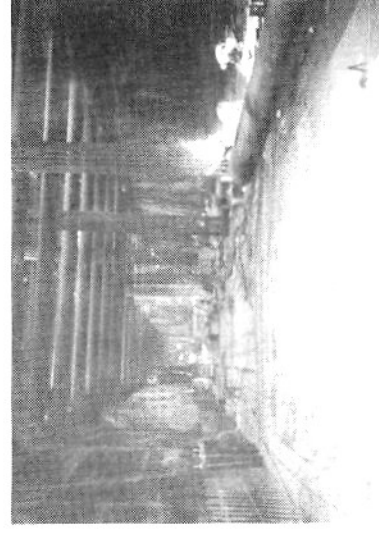
STATION'S INVERT 15/14 - ALSO VISIBLE ARE THE
COLUMNS AND EXTERIOR/INTERIOR WALLS AND
THE SCAFFOLDING FOR MEZZANINE SLAB AREA 14



SOUTHEAST ENTRANCE EXCAVATION AND
EXCAVATION SUPPORT SYSTEM



ESTABLISHING THE SOUTHEAST
ENTRANCE'S INVERT ELEVATION



OVERVIEW OF THE STATION'S INVERT LEVEL
WITH THE CENTER COLUMNS VISIBLE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

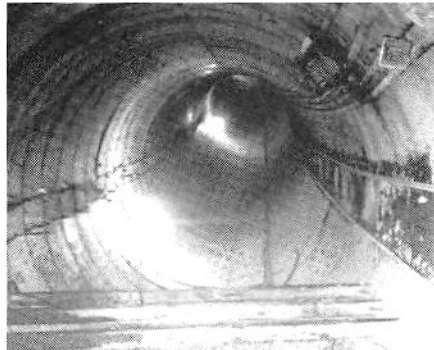
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PERIOD NOVEMBER 1989

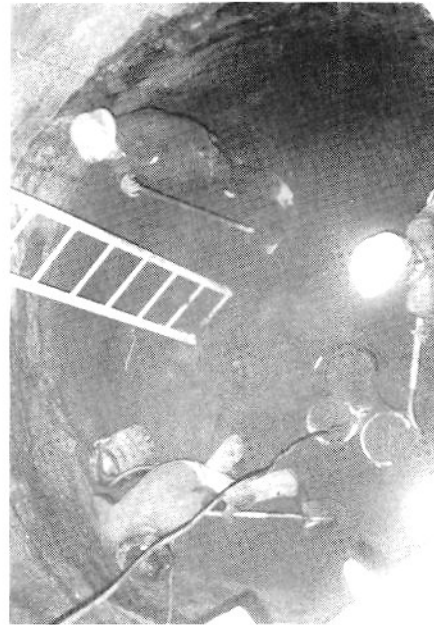
TUNNELS FROM 5TH/HILL TO 7TH/FLOWER CONTRACT A146



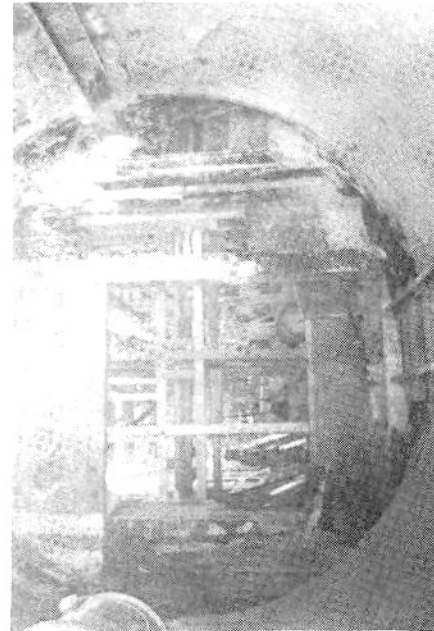
AR TUNNEL SHIELD BEING DISMANTLED



INTERSECTION OF CROSS PASSAGE #7 AND AR TUNNEL



EXCAVATION OF PUMP STATION SUMP



BREAK THROUGH OF AL TAIL TUNNEL INTO
A145 STATION

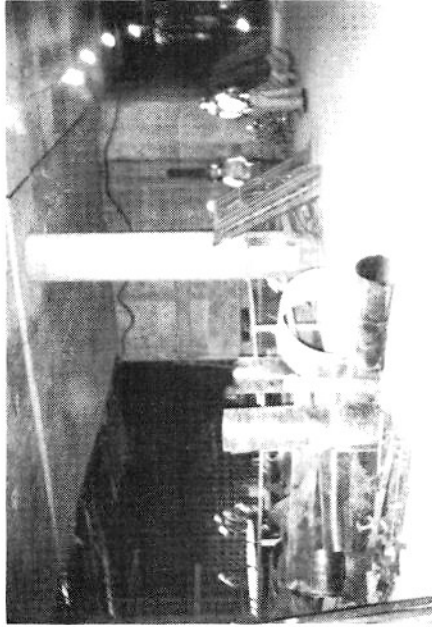


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

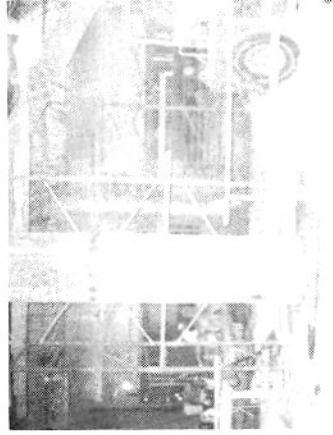
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PERIOD NOVEMBER 1989

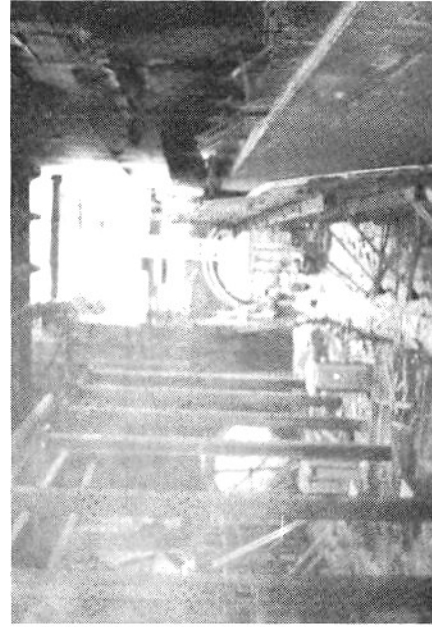
7TH/FLOWER STATION STAGE I
CONTRACT A165



INTERSECTION OF FLOWER AND 7TH STREET,
FACING WEST



MRT MEZZANINE LEVEL
ESCALATOR OPENING



MRT TRACK LEVEL 7TH STREET,
FACING WEST



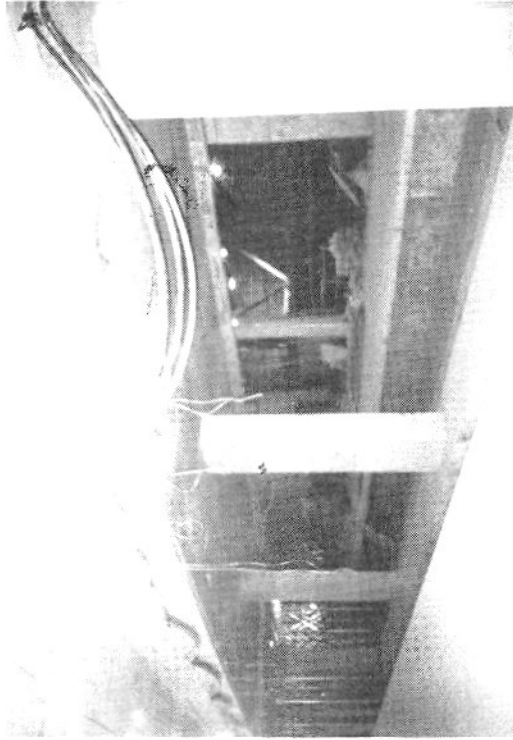
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

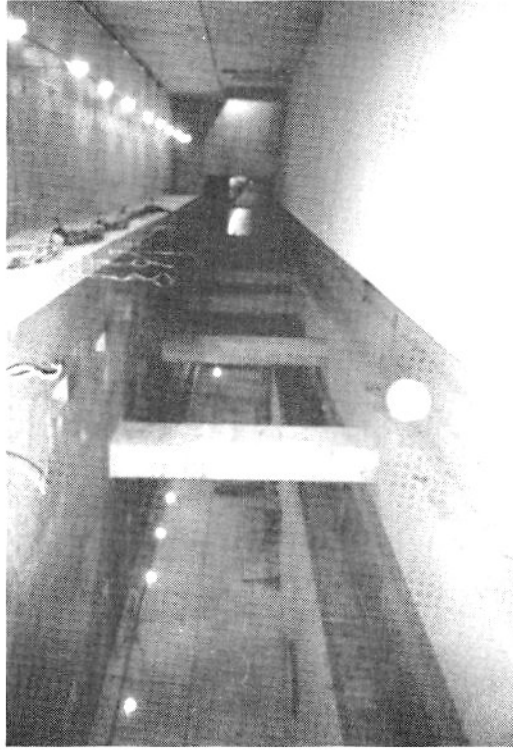
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PERIOD NOVEMBER 1989

7TH/FLOWER STATION STAGE I CONTRACT A165 (Contd)



INTERSECTION OF 7TH AND FLOWER STREET,
LRT PLATFORM - FACING EAST



LRT PLATFORM, FACING SOUTH



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

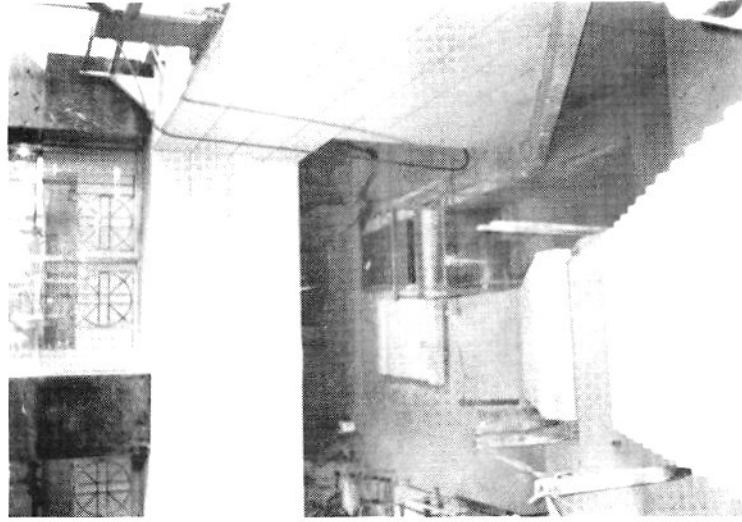
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PERIOD NOVEMBER 1989

7TH/FLOWER STATION STAGE II
CONTRACT A167



DISTRICT FURNISHED FANS IN FAN ROOM #61
IN THE HOME SAVINGS BLDG.



DISTRICT FURNISHED GRANITE WALL
CLADDING AND STAIR TREADS INSTALLED
AT THE MRT WEST ENTRANCE,
HOME SAVINGS BLDG.

Parsons-Dillingham-De Leuw, Cather



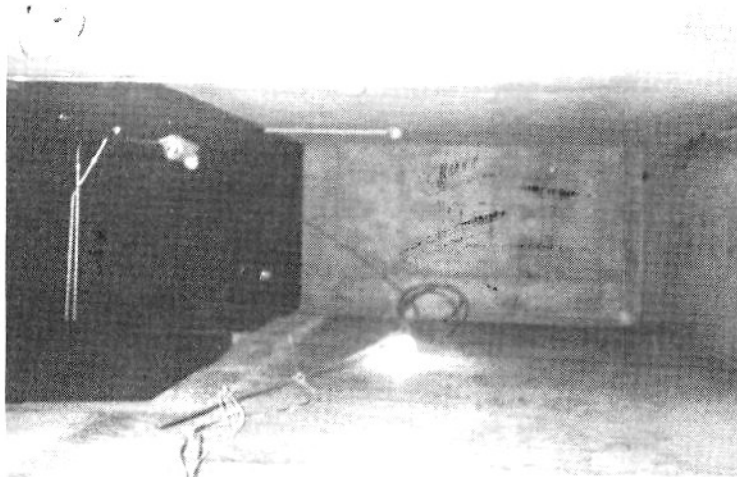
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

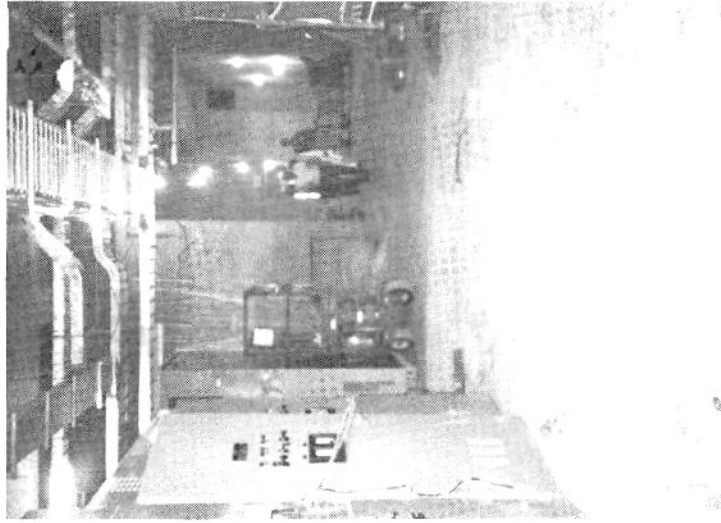
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PERIOD NOVEMBER 1989

7TH/FLOWER STATION STAGE II CONTRACT A167 (Contd)



ACOUSTICAL PANEL INSTALLED IN CHILLER
ROOM SERVICE CORRIDOR #59A,
HOME SAVINGS BLDG.



TRANSFORMERS AND CABLE TRAYS BEING
INSTALLED IN THE TRACTION POWER
SUBSTATION, ROOM #63,
HOME SAVINGS BLDG.



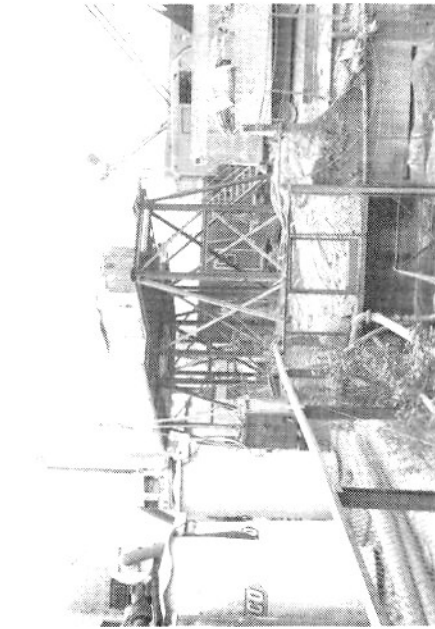
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD NOVEMBER 1989

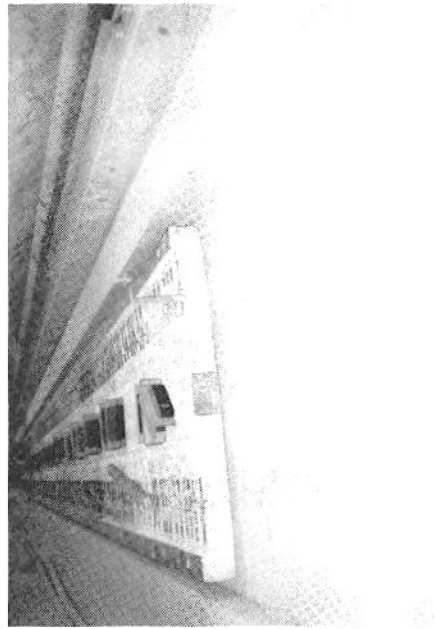
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO CONTRACT A171



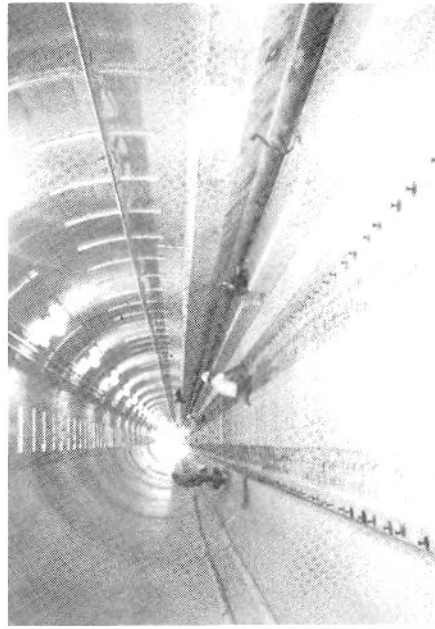
REMOVAL OF CONCRETE BATCH PLANT
FROM YARD AREA



DEMOLITION AND REMOVAL OF CONCRETE PADS
AT THE BASE OF ACCESS SHAFT



FLOATING SLABS IN AIR TUNNEL



LATERAL ADJUSTMENTS BEING MADE ON
FLOATING SLABS IN AIR TUNNEL

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

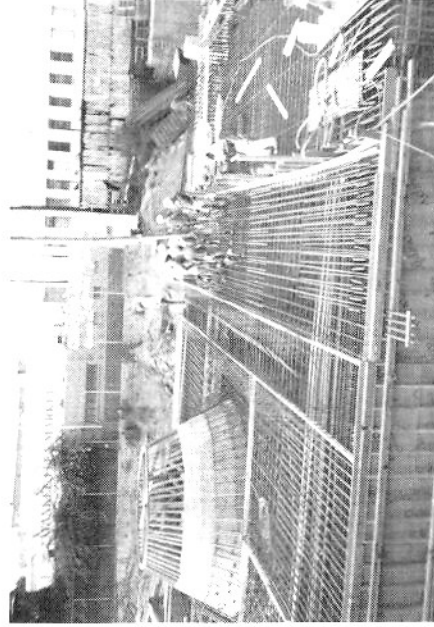
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PERIOD NOVEMBER 1989

WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175



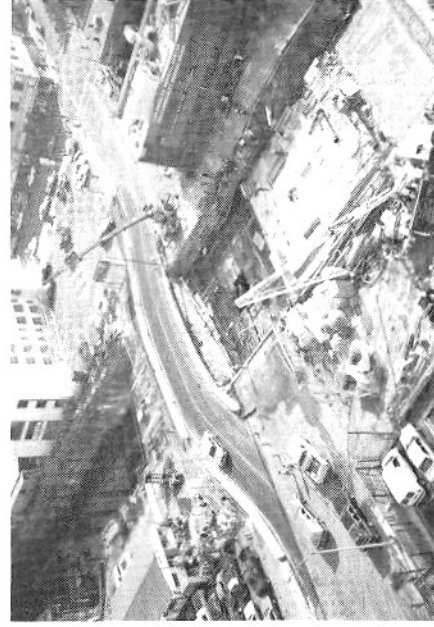
BACKFILL OVER STATION ROOF IN PREPARATION
FOR WESTLAKE AVE. DETOUR



INITIAL PLACEMENT OF CONCRETE FOR
ROOF SLAB NEAR STATION SKYLIGHT



OVERVIEW OF STATION AREA AFTER PLACEMENT
OF ROOF CONCRETE, WEST OF WESTLAKE AVE.



OVERVIEW OF WESTLAKE AVE. DETOUR,
OVER STATION STRUCTURE



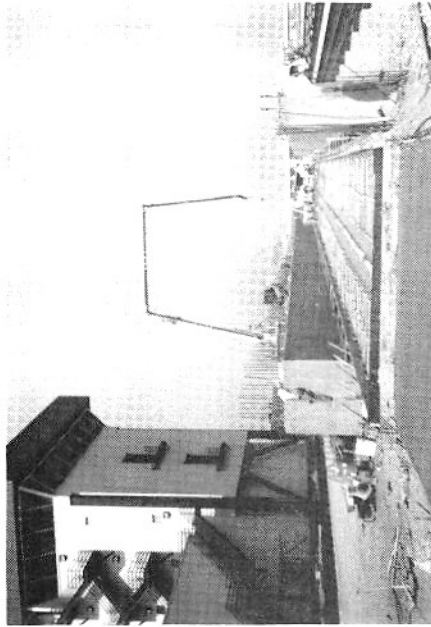
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

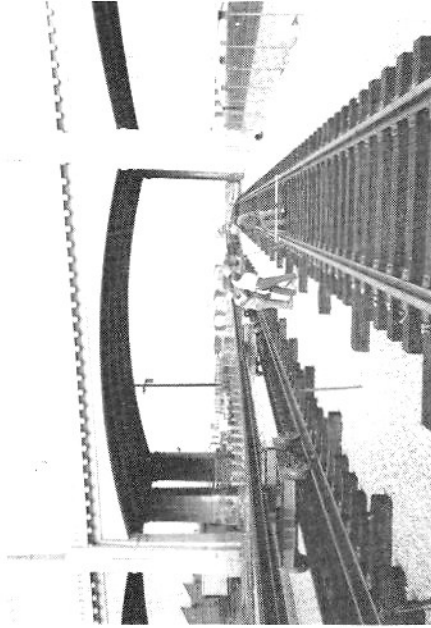
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PERIOD NOVEMBER 1989

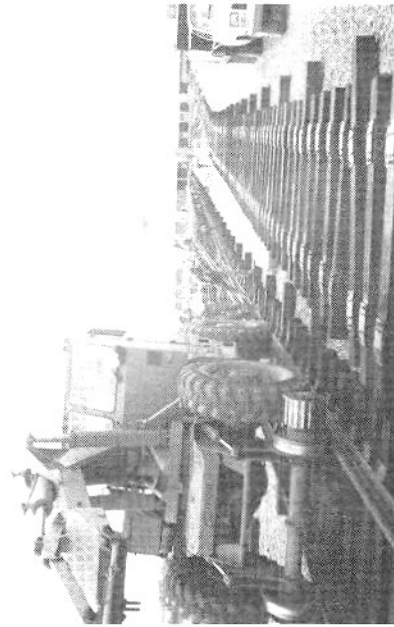
TRACKWORK INSTALLATION/YARD STORAGE AREA CONTRACT A610/A115



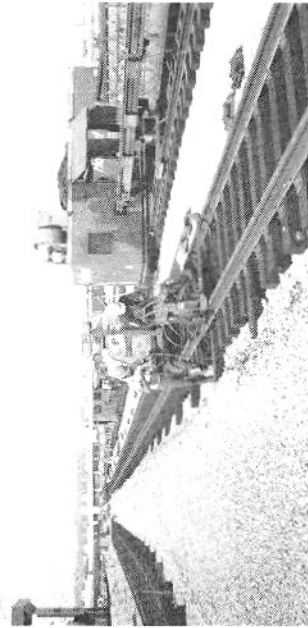
CONCRETE POUR FOR HEAVY CAR CLEANING
PLATFORM



GAUGING AND SPIKING TAIL TRACK TL-1 UNDER
SIXTH STREET BRIDGE.



UNLOADING CWR STRINGS FROM RAIL TRAIN FOR
RA AND MR-3 TRACKS



SPIKING TRACK 10 AND WELDING PLANT SET ON
TRACK 9 IN OPERATION

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

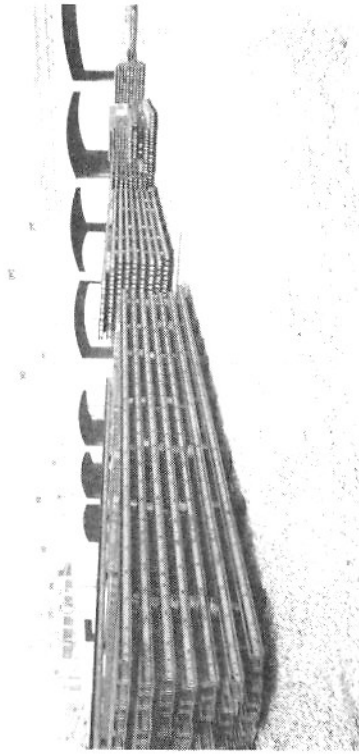
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PERIOD NOVEMBER 1989

CONTACT RAIL
CONTRACT A612



EXPANSION JOINT DURING QUALIFICATION TESTING



CONTACT RAIL - 100% DELIVERED AS OF 11/24/89

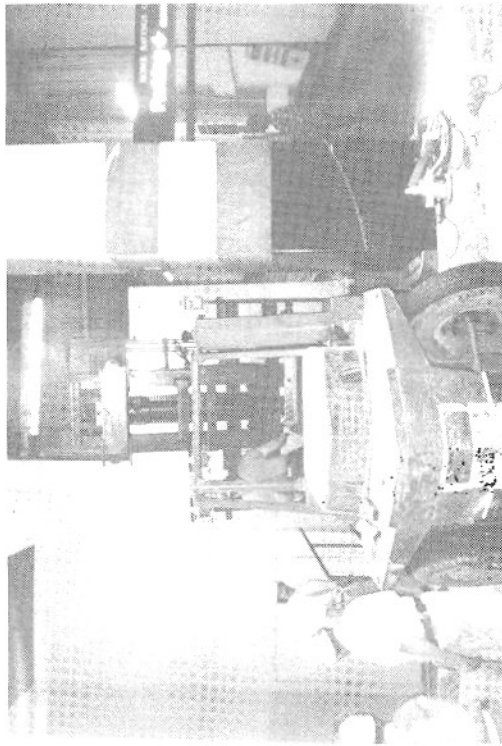


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

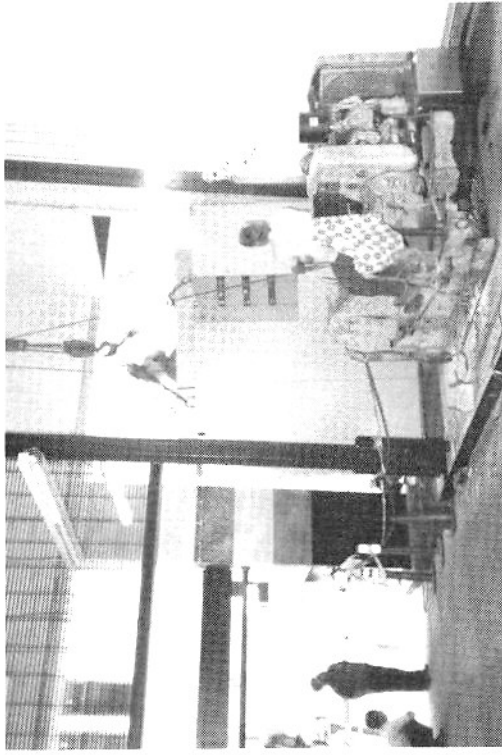
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PERIOD NOVEMBER 1989

**TRACTION POWER INSTALLATION
CONTRACT A631**



INSTALLATION OF TRACTION POWER EQUIPMENT IN SUBSTATION AT 7TH/FLOWER STATION



Parsons-Dillingham-De Leuw, Cather