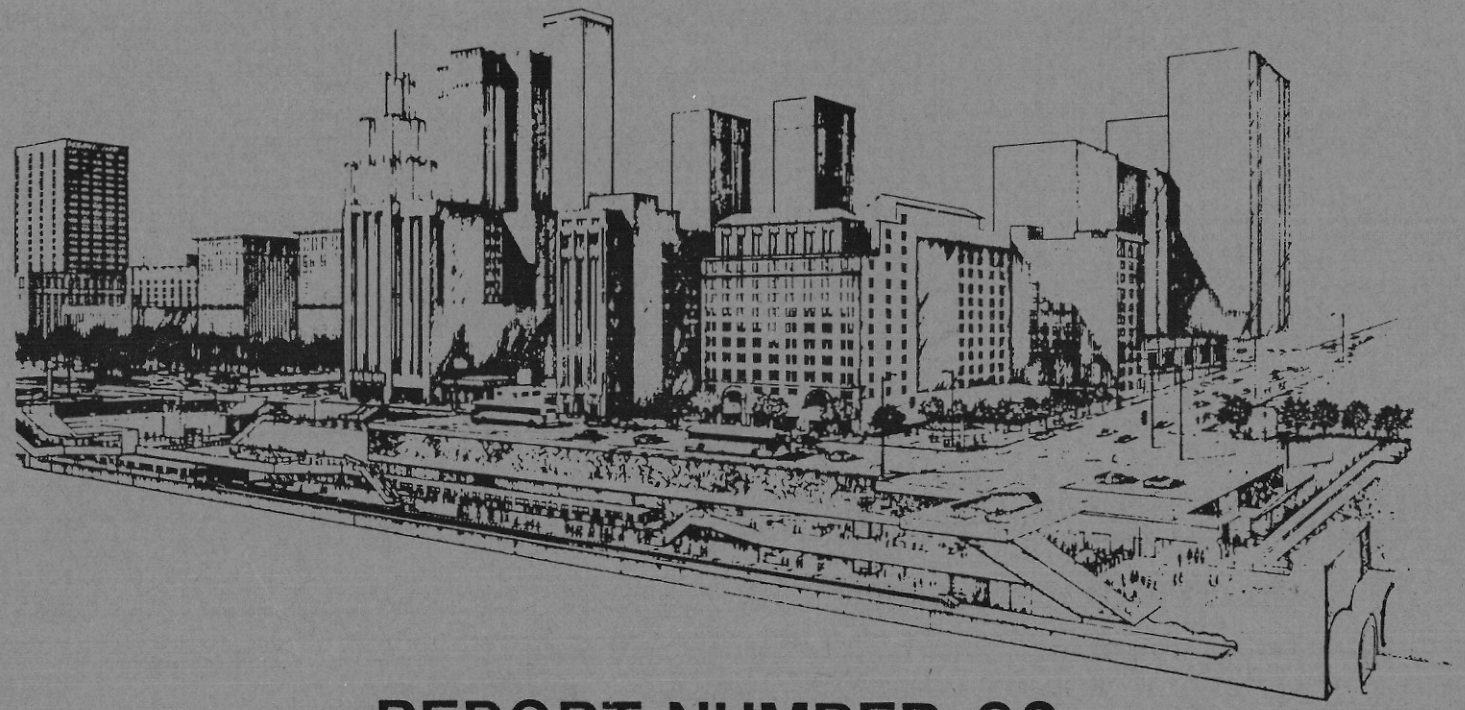
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LOS ANGELES METRO RED LINE PROJECT

MONTHLY CONTRACT PERFORMANCE REPORT



REPORT NUMBER 62
AUGUST 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

AUGUST 1989

presented to

Southern California Rapid Transit District

CONTRACT NO. 3369

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Month AUGUST Year 1989

A Joint Venture of The Ralph M. Parsons Co., Dillingham Construction N. A. Inc., and De Leuw, Cather & Co.,
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LOS ANGELES **METRO RED LINE**

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD AUGUST 1989

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SECTION I

CONSTRUCTION MANAGER'S SUMMARY STATEMENT

I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

MAJOR CM ACTIVITIES

This Contract Performance Report (CPR) for the month of August 1989 is the second CPR in the Sixth Annual Work Plan (6th AWP) and covers the period July 29 to August 25, 1989. The following is a summary, by functional organization, of major CM activities during this period:

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

Environmental Activities: Continued monitoring for groundwater and construction water discharges at 7 construction sites. Continued monitoring of Discharge Monitoring Stations, Ballona Creek and Los Angeles River. Prepared and submitted July Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB). Prepared and submitted July LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Coordinated and assured regulatory compliance for initial start-up flows from A130 and A135 dewatering. Prepared and submitted final Contaminated Soil Assessment Report for A130 to the Los Angeles Fire Department. Prepared and submitted Underground Tank Closure Report, A145 -No. 6, to the Los Angeles Fire Department. Monitored asbestos abatement activities at A165.

Utilities and Traffic Activities: Continued coordination of traffic control plans and street closures with city agencies for 6 contracts. Continued coordination of MOS-1 inspections with LADOT. Processed a total of 3 Traffic and Utilities related submittals. Processed 1 Master Agreement invoice. Assisted in acquiring variances for fire protection pipe and valves for BHF (A135).

Surveying Activities: Continued checking contractor's control points and layout at various construction sites. Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175. Continued location survey at shops and yards contracts. Checked layout of A165 station.

PROJECT CONTROLS: Processed 30 Change Requests as follows: 6 for A112; 2 for A130; 3 for A135; 1 for A141; 1 for A145; 2 for A146; 2 for A165; 1 for A167; 2 for A175; 5 for A610/A115; 1 for A616; 2 for A630; and 2 for A710. Processed 14 Change Notices as follows: 2 for A130; 3 for A135; 3 for A141; 1 for A145; 2 for A165; 1 for A175; and 2 for A610/A115. Processed 38 Change Orders as follows: 3 for A112; 3 for A130; 6 for A135; 2 for A145; 3 for A146; 2 for A165; 3 for A171; 3 for A175; 6 for A610/A115; 1 for A616; 1 for A620; 1 for A630; 1 for A640; 2 for A710 and 1 for A755; Processed 41 executed Change Orders through TRACS as follows: 7 for A112; 4 for A130; 4 for A135; 3 for A144; 5 for A145; 5 for A165; 1 for A171; 3 for A175; 6 for A610/A115; and 3 for A620. Processed 15 Potential Claims as follows: 1 for A112; 2 for A135; 8 for A141; 1 for A146; 2 for A165 and 1 for A610/A115. Processed 36 Change - Technical Evaluations as follows: 3 for A112; 3 for A130; 1 for A141; 1 for A144; 1 for A145; 2 for A146; 1 for A135; 3 for A165; 2 for A167; 3 for A171; 1 for A175; 1 for A610/A115; 1 for A612; 1 for A620; 3 for A630; 1 for A640 and 1 for A650. Processed 4 Force Account Change Packages as follows: 1 for A146 and 3 for A165. Completed Close-out Reconciliations on 7 Force Account Change Orders as follows: 6 for A145 and 1 for A165. Processed 18 Monthly Payment Estimates. Reviewed Contractor Monthly Progress Reports. Prepared Scheduling inputs to RTD Monthly Status Report. Approved as noted A631 Part I Schedule Submittal. Rejected A167 Part II Schedule Submittal. Approved as noted A146 and rejected A171 Part II Schedule revisions. Reviews in process for Part II Schedule revisions from A130, A145 and A165. Completed a successful implementation of PC TRACS on the project.

Cost Estimates for Changes/Proposals: A-112: Prepared an estimate for sprayed on Fireproofing and made a take off of quantities. Reviewed contractor's claim and attended negotiations for settlement. A-130-CR-015A: Completed estimate for revisions to 8" fire protection line on west side of retaining wall. A-130-CR-031: Began estimate for revisions to incoming electric service room. A-130-CR-026: Began review for second revision to communications duct bank connection to LA Fire Department and Pac Bell. A-130-CR-030: Completed revision of Contractors value engineering proposal for deletion of decking at A130/A135 interface. A135-CR-004: Continued review of proposals for changes to LAUPT Baggage Handling facilities and attended negotiations for settlement. A-135: Reviewed miscellaneous proposals submitted by Contractor. A141-CR-054: Reviewed contractors proposal for changes to curbs and walls, emergency fan room; met with RTD and Contractor to clarify scope of work and quantities. A-141-CR-100: Completed review of elevator machine room changes. A-141-CR-121: Prepared estimates for revisions to elevator No. 201 and No. 101 Hoistway Door opening. A-141-CR-011: Reviewed contractors revised proposal. Prepared estimates, attended meeting with RTD for clarification of proposals, outline development of tunnel equipment standby rates, and attended negotiations with RTD and Contractor. A-141: Met with RE and PE to clarify scope of work and to outline PDCD estimates. A146: Reviewed contactors proposed equipment costs for Force Account work, made revisions to PDCD rates where required. A-165: Reviewed contractor's revised quantities for decking vs. PDCD takeoff. A-165-CR-023: Reviewed contractor proposal, prepared comparison summary with PDCD estimate. A-175: Prepared estimate to complete for interface with A-171

claim. A-175-CR-035: Met with RTD and contractor to clarify scope of work, quantities and negotiate settlement for incoming electrical service room changes. A610/A115: Prepared estimate for options due to tunnel access delay. A-610/A115-CR-017: Prepared estimate for changes in conductor sizes and number in underground ductbank A-610/A115-CR-073: Prepared estimate for changes and added communication duct bank.

CONTRACT/PROCUREMENTS: Subsequent to receipt of District approval: (a) Issued new Subcontract for Temporary Personnel Services: (b) Issued AWP-6 Subcontract Amendments to two Associate Subcontracts and (c) Issued AWP-6 Subcontract Amendments for Guard Services and Site Cleanup Services. Issued Purchase Orders for annual requirements for photo developing, copier rental and maintenance, reproduction services and typewriter maintenance. Prepared and submitted for District approval Amendment to increasing funding for Subcontract with Mueser Rutledge Consulting Engineers; request for approval to be withdrawn as District will subcontract directly with Mueser Rutledge for Consulting Services by Dr. Gould. Prepared and submitted for District approval an Amendment to Subcontract with Wally B. Evans & Associates for additional estimating services.

ENGINEERING SERVICES: Received proposals from consultant J. P. Gould to represent RTD in analysis of Civic Center Station strut load claim and A141 tunnel hard rock claim and forwarded entire file to OCPM. Completed four Metro Red Line geotechnical briefings for Corps of Engineers tunnel visitors. Completed and distributed the wrap-up report on the investigation and analysis of soil bearing beneath Caltrans' El Monte Bus Bent No. 4 in Contract A130. Made telephone inquiries on feasibility of performing in-situ stress measurements to help evaluate strut over-load situation in Civic Center Station. Initiated directive by RE for A135 Contractor to finalize the Union Station construction exploratory borehole logs and summary report for inclusion in the A136 bid documents. Completed and submitted draft report on the A141 Design Criteria Verification Study Plan Task C, a review of state and nationwide literature on tectonics and ground pressures. Completed Finding of Fact on the A146 Contractor's claim of changed conditions due to alleged loss of "apparent cohesion" in cohesionless sands from effects of drill water used in compaction grout holes. Made presentation to RTD's claims Review Board on the geotechnical aspects of the A141 changed conditions claims for bouldery ground and hard ground. Mapped the last of the geology exposed by A165 construction operations at the interface with A146. Processed 40 field inquiries with MRTC to obtain clarification of design requirements. Responded to 196 requests for information or documentation clarification from various contractors. Commenced comprehensive review of electrical embedments on Contract A145.

LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

During this period 234 Contractor submittals were processed as follows:

For Contract 112	- Approved - 5;	Approved-as-Noted - 4;		For Record Only - 1.
For Contract A130	- Approved - 18;	Approved-as-Noted - 8;	Rejected - 1.	
For Contract A135	- Approved - 11;	Approved-as-Noted - 8;	Rejected - 1;	For Record Only - 4.
For Contract A135BH	- Approved - 8;	Approved-as-Noted - 6;	Rejected - 1.	
For Contract A141	- Approved - 3;	Approved-as-Noted - 10;	Rejected - 2.	
For Contract A145	- Approved - 11;	Approved-as-Noted - 9;	Rejected - 1;	For Record Only - 1.
For Contract A146	- Approved - 4;	Approved-as-Noted - 5;	Rejected - 2.	
For Contract A165	- Approved - 20;	Approved-as-Noted - 11;	Rejected - 1;	For Record Only - 2.
For Contract A167	- Approved - 6;	Approved-as-Noted - 2;	Rejected - 3.	
For Contract A171	- Approved - 4;	Approved-as-Noted - 4;	Rejected - 3.	
For Contract A175	- Approved - 7;	Approved-as-Noted - 4;	Rejected - 5.	
For Contract A610/A115	- Approved - 7;	Approved-as-Noted - 2.		
For Contract A612		Approved-as-Noted - 1.		
For Contract A616	Approved - 1.			
For Contract A620	Approved - 1;	Approved-as-Noted - 7;	Rejected - 1.	
For Contract A630		Approved-as-Noted - 3;	Rejected - 1.	
For Contract A631		Approved-as-Noted - 1.		
For Contract A640	Approved - 3;	Approved-as-Noted - 2;	Rejected - 1.	
For Contract A710	- Approved - 2;	Approved-as-Noted - 1.		
For Contract A740	- Approved - 1;	Approved-as-Noted - 1;	Rejected - 1.	
For Contract A745		Approved-as-Noted - 1.		
TOTAL	112	90	24	8 = 234

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

COMMUNITY RELATIONS - Coordinated community notifications for A141, A145, A146, A165 and A175 tenants affected by lane restrictions and/or street closures. Coordinated and resolved traffic mitigation concerns for tenants along Hill St. affected by A141, and A146 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 (under 7th St.). Provided assistance to A141, A145, A146 and A165 for problems caused by blocked access, noise and accidents. Provided assistance to RTD in responding to media requests and coordinating 19 site visits. Assisted A141 in traffic control during the relocation of the tunnel mining machine on Hill St. Processed 38 inquiries/complaints. Provided assistance to RTD/GPA in coordination of September 21 Community Awareness Meeting planned for Union Station and Yards/Shops area tenants.

QUALITY ASSURANCE/QUALITY CONTROL - Continued to review welding activities and conduct fabrication inspections as required to support facilities and system procurement contracts A135, A145, A165, A171 and shop fabrication at: Paramount - Escalator structural frames for A175, tunnel rings (embedded) for A145, A165, A175, embedded supports with reinforcing bars for slurry walls, stairways and miscellaneous galvanized frames for A141, A145, A165 and A175; Cowelco - Stairs and handrail for A135 Baggage Handling; Angeles Steel - Tunnel plate segments and installation of Nelson studs for A165; Stockton Tri-Industries - Passenger, vehicular and railroad bridge for A135; Orecor - A588 high-strength, low alloy steel columns and other miscellaneous items, such as stair stringer and support for the Roosevelt Building, Central Bank Building, etc. Continued to monitor on-site testing and Smith Emery test laboratory activities including witnessing of partial system pressure test for A112 compressed air line, and partial system pressure test for A145/A710 elevator hydraulic line. Continued participation in A112 and A121 close-out activities. Finalized QA audits/surveillance of inspection reports and preparation of red-lined drawings at field sites. Performed audit of A112 and A121 safety certification documentation. Supported RE Acceptance Test activities for Contract A612 - Contact Rail at LB Foster/Transit Products. Conducted QA review of approximately 225 contractor submittals for various contracts. Conducted QA audits at LB Foster/Transit Products for A612. Conducted audit at Flakt, Inc. for A740/A745.

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

MANPOWER PERFORMANCE

The manpower performance for August is measured against the approved planned staffing for the 6th AWP. During August the actual staff level was 186 vs. the planned staff level of 183. Therefore, the actual staff count for August was 3 over the planned staffing level. The staff breakdown by company was 127 for the Joint Venture firms and 59 for the Associate Subcontractors. The increased staff was required for the processing of excessive field submittals and correspondence and for multishift inspection of construction work at various jobsites.

The August period had 160 available workhours/person. The plan provided for expenditure of 29,200 hours, including "as-required" manhours which would have generated a projected equivalent head count of 182.5 personnel at 160 hours/person. Actual hours expended were 27,947 which translates into a 174.67 equivalent head count at 160 hours/person including temporary personnel, resulting in the equivalent of 7.83 personnel under the plan.

Cumulative total hours incurred through August were 54,207 against a plan of 55,408 resulting in an under plan variance of 1,201 hours.

EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in August 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:

- Cumulative DBE participation for the Sixth Annual Work Plan through the month, measured against a total cost basis was 24.1%, 4.1% over the goal of 20%. Cumulative DBE participation since inception is 22.7%, 2.7 above the 20% goal.
- Minority and Women Affirmative Action performance for the month exceeded the established goal of 17% for minorities by 21% and is below the goal of 8% for women by 1.0%.

SCHEDULE PERFORMANCE

- **Contractor Submittals** - During this period, 256 submittals were received per contract number as follows: A112 (14), A130 (32), A135 (27), A135BH (18), A141 (20), A145 (24), A146 (11), A165 (24), A167 (22), A171 (7), A175 (9), A610/A115 (19), A612 (1), A616 (0), A620 (9), A630 (5), A631 (1), A640 (3), A710 (5), A732 (0), A740 (2); A745 (3); A750 (0) and A795 (0); of the 256 received this period plus the 253 carryover from July, 234 packages were processed and returned to the contractors; the balance of 275 remain in review.

- **Constructibility Reviews** - None.
- **Claims Avoidance Reviews** - Completed claims avoidance review of A187, Wilshire/Alvarado Station, Stage II and started CAR's for A147, Civic Center Station, Stage II and A157, 5th/Hill Station, Stage II.

COST PERFORMANCE - Sixth Annual Work Plan

- Total incurred costs of $1,276,852 for CM Direct Services (excluding General Condition Items) for the period were under the plan of $1,406,736 by $129,884. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by $37,417 and labor expenditures (total PDCD and subcontractors) being under the plan by $92,467.
- The cumulative costs for total CM Services (including General Condition Items) incurred through August were $2,605,021 against a plan of $2,813,068 resulting in an under plan of $208,047.
- The August CPR indicates an Estimate at Completion as of the 6th AWP (including general Condition Items) of $16,856,713 versus a plan of $16,872,967 for an underexpenditure of $16,254.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of $34,399 for the period were under the plan of $64,692 for the period by $30,293. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of $793,715 which is over the plan of $791,300 by $2,415.

GENERAL

- This "Monthly Contract Performance Report" covers progress relative to PDCD's CM Services contract with the RTD. By RTD direction PDCD no longer produces the "Monthly Construction Performance Report". An equivalent document is now produced by RTD with PDCD input and is entitled the "Monthly Status Report." A copy of the RTD report is distributed to previous recipients of the PDCD report as required.

Melvin L. Polacek
Construction Manager

SECTION II

MANPOWER PERFORMANCE

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II. MANPOWER PERFORMANCE

This CPR for the month of August 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 August.

During August, personnel assignments/deletions included the addition of 1 Executive Secretary, 1 Sr. Secretary (Admin.), 1 Field Clerk, 1 Temporary Office Engineer Assistant and 1 A/R Electrical Engineer; and the deletion of 1 Resident Engineer, an A/R Mechanical Engineer and 2 Inspectors.

For the August period, under the approved 6th AWP, the total planned staffing level (including regular and as-required classifications) is 183. The actual staff (including regular, as-required and temporary classifications) was 186 resulting in 3 over the plan. The current actual staff by company for the August period is as follows:

Company	Staff Level	Company	Staff Level
The Ralph M. Parsons Company	53	Jenkins, Gales & Martinez, Inc.	10
Dillingham Construction, Inc.	53	Kal Krishnan Consulting	2
De Leuw, Cather & Company	21	Martin & Huang International	3
Better Personnel Employment Services	9	North Pacific Construction Management	5
Construction Control Services Corporation	17	Ochoa & Sillas	-
Dames & Moore	1	Randolph & Tate Associates	-
D'Leon Consulting	1	Transmetrics	1
Engineering-Science, Inc.	2	Manpower	1
Jacobs Associates	7		186

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 and August.

The August period had 160 available workhours/person. The plan provided for an expenditure of 29,200 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 182.50 personnel @ 160 hrs/person. Actual hours expended were 27,947 which translates into an equivalent head count of 174.67 @ 160 hrs/person including temporary personnel, resulting in the equivalent of 7.83 personnel under the plan.

The hours expended for the period were 27,947 versus a plan of 29,200. The 1,253 manhours variance for the period is calculated as follows:

7.83 equivalent staff under plan @ 160 hours/period in plan =	(1253) hours
AUGUST MANHOUR VARIANCE TO PLAN	(1253) hours

Cumulative total hours for the 6th AWP incurred through August were 54,207 against a plan of 55,408 resulting in an under plan variance of 1,201 hours (Page 22).

TABLE II-1 CONSTRUCTION MANAGEMENT STAFF COUNT - AUGUST 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	0	(1)
Lead Quality Assurance Engineer(3)	0	1	1
QA/QC Engineers/Inspectors	2	2	0
Manager, Project Administration/Accounting(5)	1	0	(1)
Lead Accountant(5)	0	1	1
Senior Accountant	1	1	0
Senior Accounting Clerks	2	2	0
Manager, Community Relations	1	1	0
Community Relations Coordinator	1	1	0
Manager, EO Administration	1	1	0
EO Administrator	1	1	0
Labor Relations Advisor	0	0	0
Legal Counsel	0	0	0
Subtotal	14	14	0
DCM, Eng'r Serv./Proj. Controls(4)	0	0	0
Manager, Eng'r Serv./Proj. Contr.(4)	0	1	1
Manager, Administration and Staff Support(4)	1	0	(1)
Manager, Project Controls	1	1	0
Technical Data Coordinator	1	1	0
Lead Cost Engineer	1	1	0
Cost Engineers	4	5	1
Lead Change Control	1	1	0
Change Control Specialist	1	0	(1)
Claims Proc. Spec.	2	1	(1)
Data Technicians	1	1	0
Lead Planner/Scheduler	1	1	0
Planner/Schedulers	9	8	(1)
Lead Estimator	1	1	0
Estimators	3	3	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	2	1
Manager, Contracts/Procurement(5)	1	1	0
Sr. Contract Administrator	2	1	(1)
Office Services Manager	1	1	0
Secretarial/Word Processing/Clerical/ Drafting/ Courier	14	13	(1)
Subtotal	51	49	(2)

Phase II Construction Services

Regular/As-required/Temporary

Position	Planned(1)	Actual(2)	Variance
Manager, Engineering Services/ Systems Integration	1	1	0
Drafting Technicians	2	1	(1)
Lead Architect	1	2	1
Architect	0	1	1
Lead Electrical Engineer	1	1	0
Electrical Engineer	1	4	3
Lead Engineer, Geotech. Section	1	1	0
Engineers, Geotech. Section	5	3	(2)
Lead Mechanical Engineer	1	1	0
Mechanical Engineer	0	1	1
Lead Structural Engineer	1	1	0
Sr. Struct./Struct. Engineers	2	3	1
Lead Systems Engineer	1	1	0
Systems Engineer	2	1	(1)
Office Engineer	0	1	1
Subtotal	19	23	4
DCM, Operations	1	1	0
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
Environmental Specialists	3	2	(1)
Engineering Technician/Coordinator	0	1	1
Resident Engineers	9	8	(1)
Chief Inspectors	8	9	1
Sr. Inspectors/Inspectors	35	36	1
Office Engineers	12	11	(1)
Field Secretaries/Clerical	11	12	1
Manager, Systemwide Construction	1	1	0
Office Engineer	3	3	0
Resident Engineers	4	4	0
Secretaries/Clerical	4	4	0
Inspector	0	0	0
Data Technicians	1	1	0
Subtotal	99	100	1
Totals	183	186	3

NOTES:

(1) The "Planned" staff count is taken directly from the RTD approved PDCD 6th AWP. 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.

LOS ANGELES METRO RED LINE

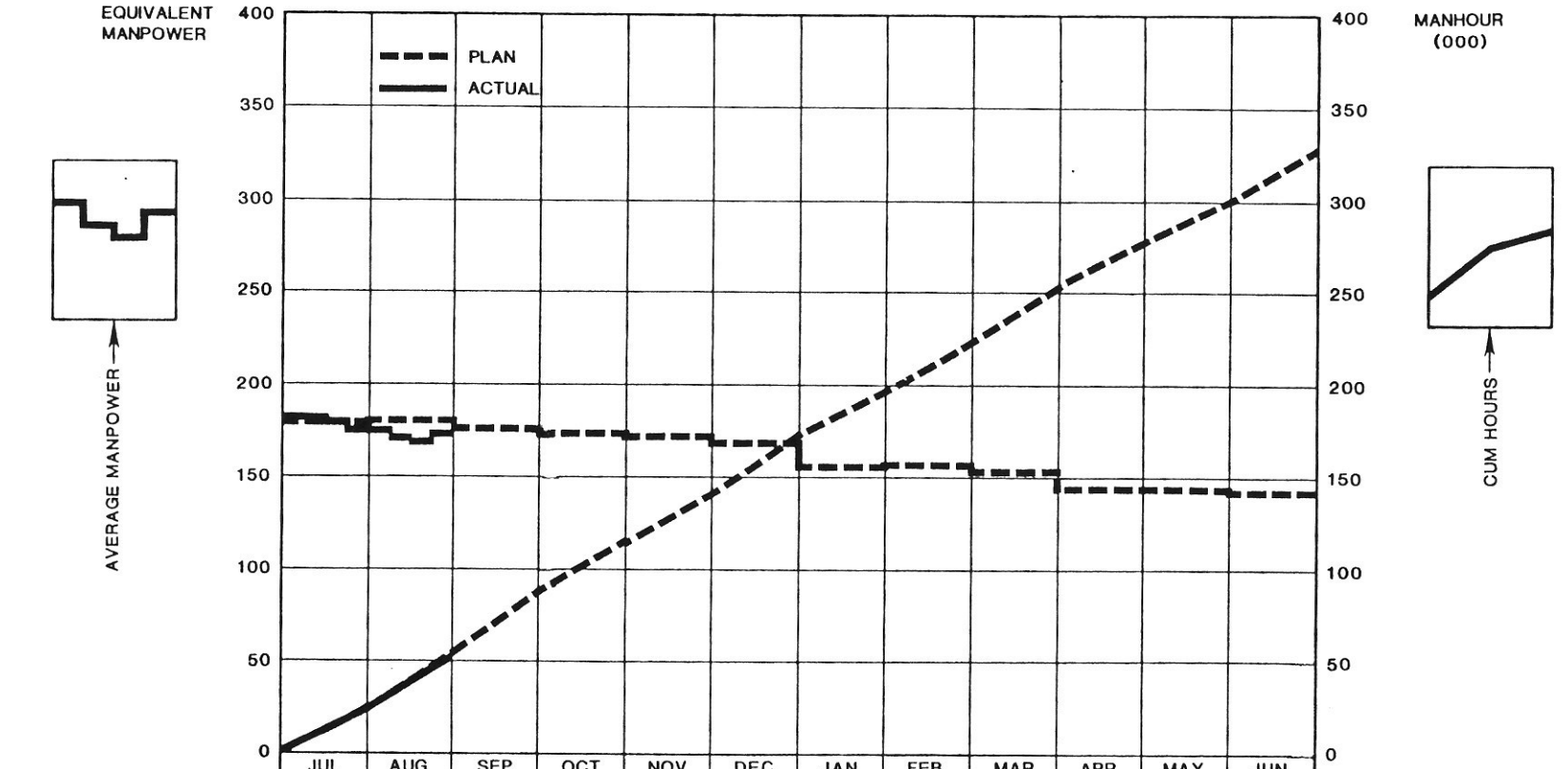
PDCD

RTD

CONTRACT PERFORMANCE REPORT

SIXTH ANNUAL WORK PLAN

PERIOD AUGUST 1989



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
HOURS/MO	PLAN	26,208	29,200	34,176	28,000	25,056	32,832	23,864	25,280	31,000	23,568	23,568	28,090
	ACTUAL	26,260	27,947										
HOURS/CUM	PLAN	26,208	55,408	89,584	117,584	142,640	175,472	199,336	224,616	255,616	279,184	302,752	330,842
	ACTUAL	26,258	54,207										
EQ MANPOWER	PLAN	182	183	178	175	174	171	157	158	155	147	147	146
	ACTUAL	182	175										
AVAILABLE WORK HOURS		144	160	192	160	144	192	152	160	200	160	160	192

PDCD MANPOWER

LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

SIXTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

DESCRIPTION (MHRS)			1989 JUL	AUG	SEP	OCT	NOV	DEC	1990 JAN	FEB	MAR	APR	MAY	JUN	TOTALS
MANHOURS BY FUNCTIONAL DEPARTMENT															
A PROJECT MANAGEMENT	PLAN	current	2,448	2,720	3,264	2,720	2,448	3,264	2,417	2,544	2,980	2,384	2,224	2,669	32,082
		cumulative	2,448	5,168	8,432	11,152	13,600	16,864	19,281	21,825	24,805	27,189	29,413	32,082	
	ACTUAL	current	2,729	2,602	0	0	0	0	0	0	0	0	0	0	5,331
		cumulative	2,729	5,331	5,331	5,331	5,331	5,331	5,331	5,331	5,331	5,331	5,331	5,331	
C FAC. CONSTRUCTION	PLAN	current	10,800	11,920	13,440	11,200	9,792	12,672	8,968	9,440	11,800	8,960	9,120	10,944	129,056
		cumulative	10,800	22,720	36,160	47,360	57,152	69,824	78,792	88,232	100,032	108,992	118,112	129,056	
	ACTUAL	current	11,255	11,876	0	0	0	0	0	0	0	0	0	0	23,131
		cumulative	11,255	23,131	23,131	23,131	23,131	23,131	23,131	23,131	23,131	23,131	23,131	23,131	
E SYSTEMWIDE CONST	PLAN	current	1,872	2,080	2,496	2,080	2,016	2,688	2,417	2,544	3,180	2,704	2,704	3,245	30,026
		cumulative	1,872	3,952	6,448	8,528	10,544	13,232	15,649	18,193	21,373	24,077	26,781	30,026	
	ACTUAL	current	1,559	1,659	0	0	0	0	0	0	0	0	0	0	3,218
		cumulative	1,559	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	
F GENERAL SERVICES	PLAN	current	1,440	1,600	1,920	1,600	1,440	1,920	1,094	1,152	1,440	1,024	1,024	1,229	16,883
		cumulative	1,440	3,040	4,960	6,560	8,000	9,920	11,014	12,166	13,606	14,630	15,654	16,883	
	ACTUAL	current	1,486	1,549	0	0	0	0	0	0	0	0	0	0	3,035
		cumulative	1,486	3,035	3,035	3,035	3,035	3,035	3,035	3,035	3,035	3,035	3,035	3,035	
K PROJECT CONTROLS	PLAN	current	3,960	4,400	5,280	4,400	4,104	5,472	3,739	3,936	4,720	3,392	3,392	4,070	50,865
		cumulative	3,960	8,360	13,640	18,040	22,144	27,616	31,355	35,291	40,011	43,403	46,795	50,865	
	ACTUAL	current	3,457	3,887	0	0	0	0	0	0	0	0	0	0	7,344
		cumulative	3,457	7,344	7,344	7,344	7,344	7,344	7,344	7,344	7,344	7,344	7,344	7,344	

SIXTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

DESCRIPTION (MHRS)			1989 JUL	AUG	SEP	OCT	NOV	DEC	1990 JAN	FEB	MAR	APR	MAY	JUN	TOTALS
MANHOURS BY FUNCTIONAL DEPARTMENT															
L PROCUREMENT	PLAN	current	432	480	576	320	288	384	274	288	360	256	256	307	4,221
		cumulative	432	912	1,488	1,808	2,096	2,480	2,754	3,042	3,402	3,658	3,914	4,221	
	ACTUAL	current	249	309	0	0	0	0	0	0	0	0	0	0	558
		cumulative	249	558	558	558	558	558	558	558	558	558	558	558	
M ENG. SVCS./SYST. INTEGR.	PLAN	current	2,520	2,960	3,360	2,800	2,232	2,976	2,842	2,832	3,540	2,608	2,448	3,130	34,248
		cumulative	2,520	5,480	8,840	11,640	13,872	16,848	19,690	22,522	26,062	28,670	31,118	34,248	
	ACTUAL	current	2,913	2,950	0	0	0	0	0	0	0	0	0	0	5,863
		cumulative	2,913	5,863	5,863	5,863	5,863	5,863	5,863	5,863	5,863	5,863	5,863	5,863	
N COMMUNITY RELATIONS	PLAN	current	288	320	384	320	288	384	152	160	200	160	160	192	3,008
		cumulative	288	608	992	1,312	1,600	1,984	2,136	2,296	2,496	2,656	2,816	3,008	
	ACTUAL	current	248	265	0	0	0	0	0	0	0	0	0	0	513
		cumulative	248	513	513	513	513	513	513	513	513	513	513	513	
P SAFETY	PLAN	current	288	320	384	320	288	384	304	320	400	256	256	307	3,827
		cumulative	288	608	992	1,312	1,600	1,984	2,288	2,608	3,008	3,264	3,520	3,827	
	ACTUAL	current	200	320	0	0	0	0	0	0	0	0	0	0	520
		cumulative	200	520	520	520	520	520	520	520	520	520	520	520	
Q QUALITY ASSURANCE	PLAN	current	432	480	576	320	288	384	274	288	360	288	288	346	4,324
		cumulative	432	912	1,488	1,808	2,096	2,480	2,754	3,042	3,402	3,690	3,978	4,324	
	ACTUAL	current	338	402	0	0	0	0	0	0	0	0	0	0	740
		cumulative	338	740	740	740	740	740	740	740	740	740	740	740	

LOS ANGELES METRO RED LINE

RTD

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

SIXTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

DESCRIPTION (MHRS)			1989 JUL	AUG	SEP	OCT	NOV	DEC	1990 JAN	FEB	MAR	APR	MAY	JUN	TOTALS
MANHOURS BY FUNCTIONAL DEPARTMENT															
R PROJECT ADMIN.	PLAN	current	1,440	1,600	1,920	1,600	1,440	1,920	1,383	1,616	1,820	1,536	1,376	1,651	19,302
		cumulative	1,440	3,040	4,960	6,560	8,000	9,920	11,303	12,919	14,739	16,275	17,651	19,302	
	ACTUAL	current	1,581	1,856	0	0	0	0	0	0	0	0	0	0	3,437
		cumulative	1,581	3,437	3,437	3,437	3,437	3,437	3,437	3,437	3,437	3,437	3,437	3,437	
S EQUAL OPPORTUNITY	PLAN	current	288	320	384	320	288	384	0	0	0	0	0	0	1,984
		cumulative	288	608	992	1,312	1,600	1,984	1,984	1,984	1,984	1,984	1,984	1,984	
	ACTUAL	current	245	272	0	0	0	0	0	0	0	0	0	0	517
		cumulative	245	517	517	517	517	517	517	517	517	517	517	517	
T LABOR RELATIONS	PLAN	current	0	0	0	0	144	0	0	0	200	0	160	0	504
		cumulative	0	0	0	0	144	144	144	144	344	344	504	504	
	ACTUAL	current	0	0	0	0	0	0	0	0	0	0	0	0	0
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	
U LEGAL	PLAN	current	0	0	192	0	0	0	0	160	0	0	160	0	512
		cumulative	0	0	192	192	192	192	192	352	352	352	512	512	
	ACTUAL	current	0	0	0	0	0	0	0	0	0	0	0	0	0
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL (HOURS)	PLAN	current	26,208	29,200	34,176	28,000	25,056	32,832	23,864	25,280	31,000	23,568	23,568	28,090	330,842
		cumulative	26,208	55,408	89,584	117,584	142,640	175,472	199,336	224,616	255,616	279,184	302,752	330,842	
	ACTUAL	current	26,260	27,947	0	0	0	0	0	0	0	0	0	0	54,207
		cumulative	26,260	54,207	54,207	54,207	54,207	54,207	54,207	54,207	54,207	54,207	54,207	54,207	

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SECTION III

EQUAL OPPORTUNITY PERFORMANCE

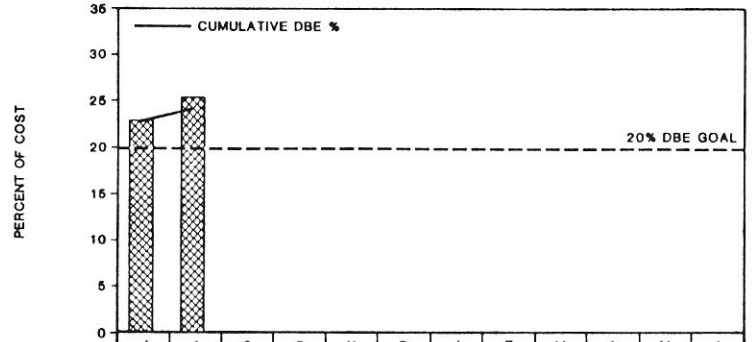
III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Sixth Annual Work Plan for August measured on the basis of accrued total cost was 25.4%, 5.4% above the 20% goal. The cumulative percentage for the Sixth Annual Work Plan was 24.1%, 4.1% above the 20% goal (Figure 1). The cumulative percentage for the total contract from its inception in July 1984 is 22.73%, 2.73% above the 20% goal.

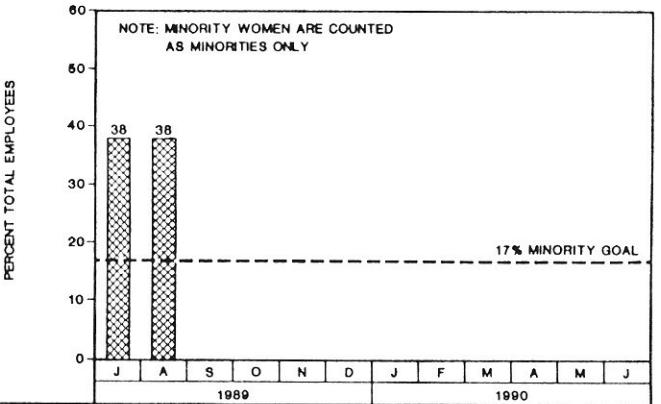
Affirmative Action Analysis

The Affirmative Action Analysis, as indicated in Figure 2 exceeds the established goal of 17% for minorities by 21%. The Affirmative Action Analysis for women, as indicated in Figure 3, is below the goal of 8% by 1.0%.



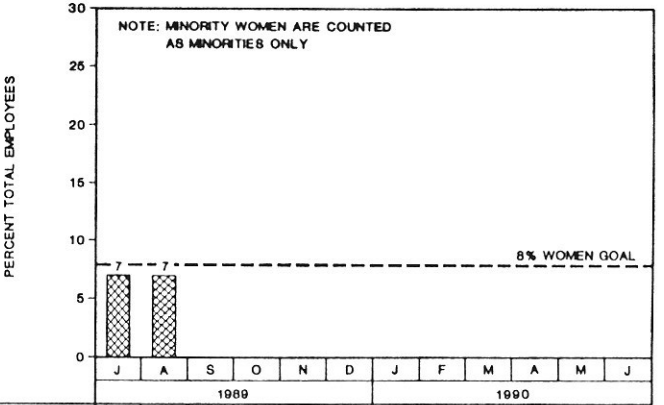
($000)	J	A	S	O	N	D	J	F	M	A	M	J
TOTAL MONTHLY COST	1,294	1,311										
CUMULATIVE COST	1,294	2,605										
MONTHLY DBE COST	296	333										
CUMULATIVE DBE COST	296	629										
MONTHLY DBE %	22.9	25.4										
CUMULATIVE DBE %	22.9	24.1										

FIGURE 1 - DBE ANALYSIS



	J	A	S	O	N	D	J	F	M	A	M	J
TOTAL EMPLOYEES	187	186										
MINORITY EMPLOYEES	71	71										
MINORITY % OF TOTAL	38%	38%										
MINORITY GOAL VARIANCE	+21%	+21%										

FIGURE 2 - MINORITY AFFIRMATIVE ACTION ANALYSIS



	J	A	S	O	N	D	J	F	M	A	M	J
TOTAL EMPLOYEES	187	186										
WOMEN EMPLOYEES	13	13										
WOMEN % OF TOTAL	7%	7%										
WOMEN GOAL VARIANCE	-1.0%	-1.0%										

FIGURE 3 - WOMEN AFFIRMATIVE ACTION ANALYSIS

SECTION IV

SCHEDULE PERFORMANCE

IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 256 submittals were received from the Construction Contractors and 253 were carried over from July. 234 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 (275) are still under review.

Contracts	Carryover From July	No. of Submittals Received in August	Submittals Processed Within 30 Days	Submittals Processed In Over 30 Days	Carryover to Sept.
A112	7	14	6	4	11
A130	26	32	20	7	31
A135	22	27	22	2	25
A135BH	17	18	15	0	20
A141	12	20	7	8	17
A145/A145A	21	24	16	6	23
A146	13	11	9	2	13
A165	62	24	15	19	52
A167	22	22	10	1	33
A171	6	7	11	0	2
A175	16	9	14	2	9
A610/A115	4	19	9	0	14
A612	2	1	1	0	2
A616	10	0	1	0	9
A620	4	9	9	0	4
A630	3	5	4	0	4
A631	0	1	1	0	0
A640	3	3	2	4	0
A710	1	5	2	1	3
A732	1	0	0	0	1
A740	1	2	2	1	0
A745	0	3	1	0	2
Total	253	256	177	57	275

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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:

- Claims Avoidance Review - Completed a Claims Avoidance Review (CAR) of A187, Wilshire/Alvarado Station, Stage II and started CAR's for A147, Civic Center Station, Stage II and A157, 5th/Hill Station, Stage II.

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

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD
7-29-89 TO 8-25-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-147	CIVIC CENTER STATION (STAGE II)	DWGS	CAR		08-17-89	09-07-89			*RESCHEDULED TO 10-6-89 BY PDCD
**									
A-157	5TH/HILL STATION (STAGE II)	DWGS	CAR		08-16-89	09-05-89			*RESCHEDULED TO 9-15-89 BY PDCD
A-157	5TH/HILL STATION (STAGE II)	SPEC	CAR		08-22-89	09-05-89			*RESCHEDULED TO 9-15-89 BY PDCD
**									
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	DWGS	CAR		07-20-89	08-01-89	08-24-89		*RESCHEDULED TO WEEK OF 8-14-89 BY PDCD
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	SPEC	CAR		07-20-89	08-01-89	08-24-89		*RESCHEDULED TO WEEK OF 8-14-89 BY PDCD
**									

5 records listed. 5 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 8-1-89, MRTC Design Review Schedule

SECTION V

COST PERFORMANCE

V. COST PERFORMANCE

SIXTH ANNUAL WORK PLAN

Total incurred costs of $1,276,852 (Page 25) for CM Direct Services (without General Condition Items) for the period were under the plan of $1,406,736 by $129,884. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by $37,417 and Labor expenditures (total PDCD and subcontractors) being under the plan by $92,467.

The cumulative costs for total CM Services (including General Condition Items) incurred through August were $2,605,021 against a plan of $2,813,068 resulting in an under plan expenditure of $208,047 (Page 25).

The August CPR forecasts (Page 25) a total CM Services Estimate At Completion of $16,856,713 versus a plan of $16,872,967 for an underexpenditure of $16,254. Extracting the General Condition Items for separate reporting, the August CPR forecasts a CM Direct Services Estimate At Completion of $16,062,998 versus a plan of $16,081,667 for an under plan expenditure of $18,669.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of $34,399 were under the plan of $64,692 for the period by $30,293. This report forecasts an Estimate At Completion (EAC) as of the 6th AWP period for GCI's of $793,715 versus a plan of $791,300, for a projected overplan expenditure of $2,415. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was $43.16/hr. compared to a plan rate of $44.47 (-)/hr., resulted in a difference of $1.31 per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE	IMPACT ON AUGUST COSTS
7.83125 equivalent staff under plan @ 160 hours at $44.47154/hour =	$ (55,723)

RATE VARIANCE
174.67 actual staff equivalent @ 160 hours
@ $1.31478/hour = (36,744)

AUGUST COST VARIANCE TO PLAN $ (92,467)

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of $37,417 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VARIANCE	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE
(1)Field Office Expenses	55,300	38,620	-16,680	110,600	86,918	-23,682
(2)Office Equipment	3,725	1,171	-2,554	7,450	5,171	-2,279
(3)Travel & Relocation	18,142	9,425	-8,717	36,284	16,075	-20,209
(4)Vehicles & Maintenance	4,900	2,123	-2,777	9,800	7,123	2,677
(5)Reproduction	6,050	4,437	-1,613	12,100	9,437	-2,663
(6)Telephone & Telex	5,950	5,175	-775	11,900	10,899	-1,001
(7)Computer Operation Support	2,292	2,000	-292	4,584	5,000	416
(8)Gross Receipt Tax	7,833	7,000	-833	15,667	14,000	-1,667
(9)Field Equipment	3,975	799	-3,176	7,950	5,799	-2,151
S/T ODC's	108,167	70,750	-37,417	216,335	160,422	-55,913

NOTES
(1) Field Office Expenses - underexpenditure due to less than planned purchase of supplies and parking.
(2) Office Equipment - underexpenditure due to lower than planned expenditures.
(3) Travel and Relocation - underexpenditure due to planned travel not materializing.
(4) Vehicles & Maintenance - underexpenditure due to lower than planned maintenance costs.
(5) Reproduction - underexpenditure due to lower than planned reproduction.
(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.

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

	PLANNED	ACTUAL	VARIANCE	%
PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH JULY	$ 769	$ 758	$ (11)	0.00%
CURRENT MONTH	844	798	(46)	-5.45%
CUMULATIVE THROUGH AUGUST	$ 1613	$ 1556	$ (57)	-3.53%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH JULY	$ 108	$ 90	$ (18)	0.00%
CURRENT MONTH	108	70	(38)	-35.19%
CUMULATIVE THROUGH AUGUST	$ 216	$ 160	$ (56)	-25.93%
SUBCONTRACTORS				
CUMULATIVE THROUGH JULY	$ 400	$ 388	$ (12)	0.00%
CURRENT MONTH	454	409	(45)	-9.91%
CUMULATIVE THROUGH AUGUST	$ 854	$ 797	$ (57)	-6.67%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH JULY	$ 1,277	$ 1,236	$ (41)	0.00%
CURRENT MONTH	1,406	1,277	(129)	-9.17%
CUMULATIVE THROUGH AUGUST	$ 2,683	$ 2,513	$ (170)	-6.34%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH JULY	$ 65	$ 58	$ (7)	0.00%
CURRENT MONTH	65	34	$ (31)	-47.69%
CUMULATIVE THROUGH AUGUST	$ 130	$ 92	$ (38)	-29.23%
TOTAL CM SERVICES				
CUMULATIVE THROUGH JULY	$ 1,342	$ 1,294	$ (48)	0.00%
CURRENT MONTH	1,471	1,311	(160)	-10.88%
CUMULATIVE THROUGH AUGUST	$ 2,813	$ 2,605	$ (208)	-7.39%
HOURS				
CUMULATIVE THROUGH JULY	26,208 hrs	26,260 hrs	52 hrs	0.00%
CURRENT MONTH	29,200	27,947	(1,253)	-4.29%
CUMULATIVE THROUGH AUGUST	55,408 hrs	54,207 hrs	(1,201)hrs	-2.17%

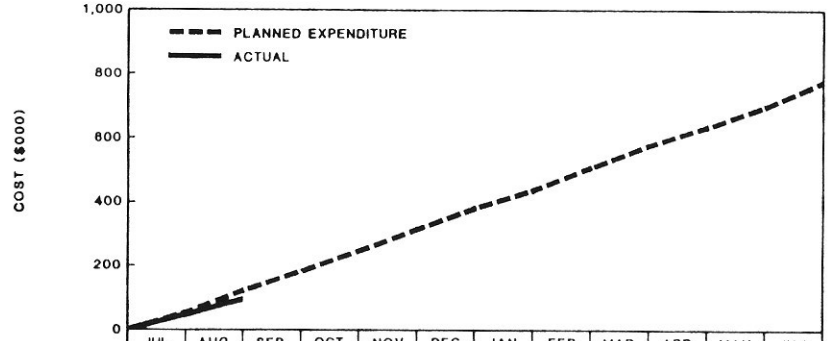
LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

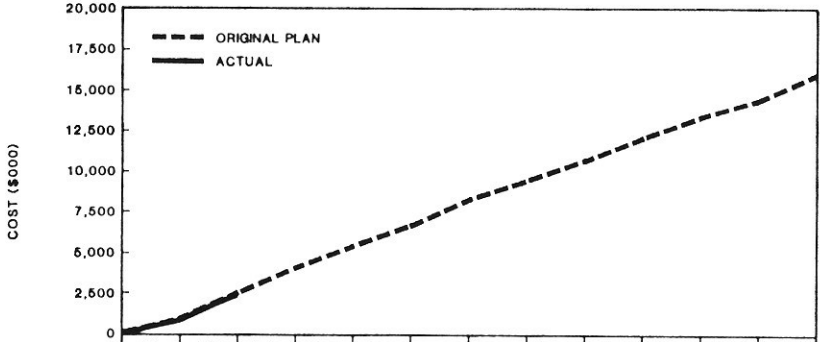
SIXTH ANNUAL WORK PLAN

PERIOD AUGUST 1989



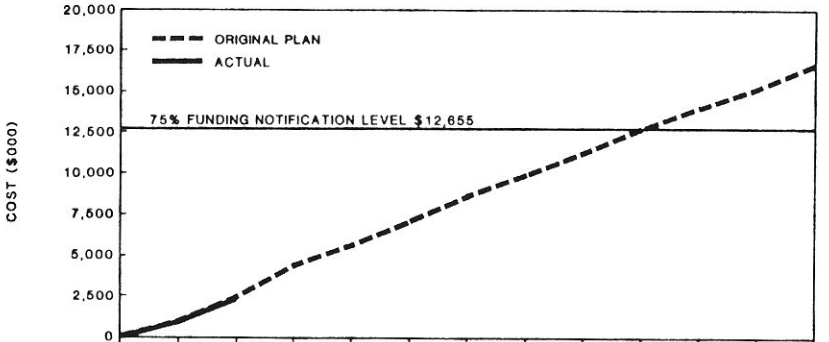
		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1989						1990					
PLANNED EXPEND.		65	129	194	259	324	389	454	518	583	647	712	791
ACTUAL		58	92										
VARIANCE		(7)	(37)										
FORECAST	ETC	726	702										
	EAC	784	794										

GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1989						1990					
PLAN		1,277	2,684	4,319	5,689	6,924	8,509	9,682	10,930	12,411	13,569	14,743	16,082
ACTUAL		1,236	2,513										
VARIANCE		(41)	(171)										
FORECAST	ETC	14,852	13,560										
	EAC	16,088	16,063										

CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1989						1990					
PLAN		1,342	2,813	4,513	6,948	7,248	8,898	10,136	11,448	12,994	14,216	15,455	16,873
ACTUAL		1,294	2,605										
VARIANCE		(48)	(208)										
FORECAST	ETC	15,578	14,252										
	EAC	16,872	16,857										

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

PDCD CM SERVICES - 6TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING AUG 25, 1989
REPORT SUMMARIZED BY RESPONSIBILITY
CONSTRUCTION
GENERAL CONDITION ITEMS

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VAR.	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE	ESTIMATE TO COMPL	AT COMPLETION DOLLARS BUDGET	ESTIMATE	VARIANCE
A RODENT & PEST CONTROL	0	0	0	0	0	0	5,000	5,000	5,000	0
B GUARD SERVICES	6,000	7,579	1,579	12,000	13,579	1,579	60,000	72,000	73,579	1,579
E CLEAN-UP OF FIELD SITES	2,000	1,820	-180	4,000	3,220	-780	20,000	24,000	23,220	-780
G SIGNS AND BARRICADES	0	0	0	0	0	0	10,000	10,000	10,000	0
X CONSTRUCTION PHOTO	4,000	5,000	1,000	8,000	10,000	2,000	40,000	48,000	50,000	2,000
Y TESTING PROGRAM	52,692	20,000	-32,692	105,384	65,000	-40,384	566,916	632,300	631,916	-384
S/T GEN. COND. ITEMS	64,692	34,399	-30,293	129,384	91,799	-37,585	701,916	791,300	793,715	2,415

LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

PDCD CM SERVICES - 6TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING AUG 25, 1989
REPORT SUMMARIZED BY RESPONSIBILITY
CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION		CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VAR.	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE	ESTIMATE TO COMPL	AT COMPLETION DOLLARS BUDGET	ESTIMATE	VARIANCE
A	PROJECT MANAGEMENT	80,378	73,936	-6,442	152,717	154,413	1,696	826,880	968,491	981,293	12,802
C	FAC. CONSTRUCTION	475,040	454,372	-20,668	906,257	892,075	-14,182	4,279,111	5,113,259	5,171,186	57,927
E	SYSTEMWIDE CONST	78,840	66,229	-12,611	149,796	127,253	-22,543	999,078	1,147,194	1,126,331	-20,863
F	GENERAL SERVICES	70,514	70,336	-178	133,976	137,452	3,476	642,515	772,363	779,967	7,604
K	PROJECT CONTROLS	213,139	184,751	-28,388	404,964	350,634	-54,330	2,038,146	2,471,628	2,388,780	-82,848
L	PROCUREMENT	22,850	15,013	-7,837	43,414	27,435	-15,979	156,993	208,485	184,428	-24,057
M	ENG. SVCS./SYST. INTEGR.	153,697	156,676	2,979	283,384	310,234	26,850	1,566,542	1,823,139	1,876,776	53,637
N	COMMUNITY RELATIONS	13,770	10,652	-3,118	26,162	20,933	-5,229	114,454	140,616	135,387	-5,229
P	SAFETY	16,150	15,830	-320	30,686	25,770	-4,916	162,473	193,159	188,243	-4,916
Q	QUALITY ASSURANCE	26,131	17,722	-8,409	49,649	33,803	-15,846	211,238	260,163	245,041	-15,122
R	PROJECT ADMIN.	44,547	46,215	1,668	84,640	86,234	1,594	482,838	549,161	569,072	19,911
S	EQUAL OPPORTUNITY	13,435	11,023	-2,412	25,527	20,925	-4,602	57,771	83,298	78,696	-4,602
T	LABOR RELATIONS	0	0	0	0	0	0	33,713	33,713	33,713	0
U	LEGAL	0	0	0	0	0	0	64,000	64,000	64,000	0
	S/T LABOR-BRDN & OH	1,208,491	1,122,755	-85,736	2,291,172	2,187,161	-104,011	11,635,752	13,828,669	13,822,913	-5,756
1	FIELD OFFICE EXPENSES	55,300	38,620	-16,680	110,600	86,918	-23,682	576,000	663,600	662,918	-682
2	OFFICE EQUIPMENT	3,725	1,171	-2,554	7,450	5,171	-2,279	37,250	44,700	42,421	-2,279
3	TRAVEL & RELOCATION	18,142	9,425	-8,717	36,284	16,075	-20,209	201,416	217,700	217,491	-209
4	VEHICLES & MAINT.	4,900	2,123	-2,777	9,800	7,123	-2,677	73,000	82,800	80,123	-2,677
5	REPRODUCTION	6,050	4,437	-1,613	12,100	9,437	-2,663	60,500	72,600	69,937	-2,663
7	TELEPHONE & TELEX	5,950	5,175	-775	11,900	10,899	-1,001	59,500	71,400	70,399	-1,001
8	COMPUTER OPERATION SUPPT.	2,292	2,000	-292	4,584	5,000	416	22,916	27,500	27,916	416
9	GROSS RECEIPT TAX	7,833	7,000	-833	15,667	14,000	-1,667	78,333	94,000	92,333	-1,667
A	FIELD EQUIPMENT	3,975	799	-3,176	7,950	5,799	-2,151	39,750	47,700	45,549	-2,151
	S/T ODC'S	108,167	70,750	-37,417	216,335	160,422	-55,913	1,148,665	1,322,000	1,309,087	-12,913
W	PDCD FEE	57,500	57,500	0	115,000	115,000	0	460,000	575,000	575,000	0
X	S/C FEE	32,578	25,847	-6,731	61,177	50,639	-10,538	305,359	355,998	355,998	0
	S/T FEES	90,078	83,347	-6,731	176,177	165,639	-10,538	765,359	930,998	930,998	0
	S/T CM DIRECT SVCS	1,406,736	1,276,852	-129,884	2,683,684	2,513,222	-170,462	13,549,776	16,081,667	16,062,998	-18,669
	S/T GEN. COND. ITEMS	64,692	34,399	-30,293	129,384	91,799	-37,585	701,916	791,300	793,715	2,415
	TOTAL CM SERVICES	1,471,428	1,311,251	-160,177	2,813,068	2,605,021	-208,047	14,251,692	16,872,967	16,856,713	-16,254

PERCENT OF BUDGET EXPENDED = 15%

NEGATIVE VARIANCE INDICATES UNDERRUN

SECTION VI

ADDITIONAL ACTIVITIES PERFORMED IN AUGUST

VI. ADDITIONAL ACTIVITIES PERFORMED IN AUGUST

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 A145, A135, A165, A171 and shop fabrication at:

- o Paramount - Escalator structural frames for A175, tunnel rings (embedded) for A145, A165, A175, embedded supports with reinforcing bars for slurry walls, stairways and miscellaneous galvanized frames for A141, A145, A165 and A175.
- o Cowelco - Stairs and handrail for A135 Baggage Handling.
- o Angeles Steel - Tunnel plate segments and installation of Nelson studs for A165.
- o Stockton Tri-Industries - Passenger, vehicular and railroad bridge for A135.
- o Orecor - A588 high-strength, low alloy steel columns and other miscellaneous items, such as stair stringer and support for the Roosevelt Building, Central Bank Building, etc.

(2) Continued to monitor on-site testing and Smith-Emery test laboratory activities including witness of partial system pressure test for A112 compressed air line, and partial system pressure test for A145/A710 elevator hydraulic line.
(3) Continued participation in A112 and A121 close-out activities.
(4) Finalized QA audits/surveillance of inspection reports and preparation of red-lined drawings at field sites.
(5) Performed audit of A112 and A121 safety certification documentation.

(6) Supported RE Acceptance Test activities for Contract A612 - Contact Rail at LB Foster/Transit Products.
(7) Continued review of Project QA Manuals.
(8) Conducted QA review of approximately 225 contractor submittals for various contracts.
(9) Conducted QA audits at LB Foster/Transit Products for A612.
(10) Conducted audit at Flakt, Inc. for A740/745.

C. Equal Opportunity Administration

(1) Monitored Equal Opportunity reporting requirements (i.e. SSA&P Report, Monthly Employment Utilization Reports, Certified Payroll) for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A167, A171, A610/A115, A612, A615, A616, A620, A640, A710, A740, and A745.
(2) Conducted project site visits/employee interviews at the following sites: A112, A130, A135, A141, A145, A146, A165, A171, and A175.
(3) Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for Contracts A112, A130, A135, A141, A145, A165 and A610/115.

D. Contracts and Procurement

(1) Subsequent to District approval: (a) Issued new Subcontract for Temporary Personnel Services; (b) Issued AWP-6 Subcontract Amendments to two Associate Subcontracts and (c) Issued AWP-6 Subcontract Amendments for Guard Services and Site Cleanup Services.
(2) Issued Purchase Orders for annual requirements for photo developing, copier rental and maintenance, reproduction services and typewriter maintenance.
(3) Prepared and submitted for District approval Amendment to increase funding for Subcontract with Mueser Rutledge Consulting Engineers. Request for approval to be withdrawn as District will subcontract directly with Mueser Rutledge for Consulting Services by Dr. Gould.
(4) Prepared and submitted for District approval an Amendment to Subcontract with Wally B. Evans & Associates for additional estimating services.

E. Community Relations

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

(2) Coordinated and resolved traffic mitigation concerns for tenants along Hill St. affected by A141, and A146 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 (under 7th St.).
(3) Provided assistance to A141, A145, A146 and A165 for problems caused by blocked access, noise and accidents.
(4) Provided assistance to RTD in responding to media requests and coordinating 19 site visits.
(5) Asisted A141 in traffic control during the relocation of the tunnel mining machine on Hill St.
(6) Processed 38 inquiries/complaints.
(7) Provided assistance to RTD/GPA in coordination of September 21 Community Awareness Meeting planned for Union Station and Yards/Shops area tenants.

F. Safety and Security

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

G. Construction Operations

(1) Continued construction management (CM) services for Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750 (4984, 4986, 4988) and A795; monitoring of Master Agreement Work and submittal reviews.
(2) Continued coordination of traffic control plans and street closures with city agencies for A130, A141, A145, A146, A165 and A610/A115.
(3) Continued coordination of MOS-1 inspections with LADOT.
(4) Processed a total of 3 Traffic and Utilities related submittals.
(5) Processed 1 Master Agreement invoice.
(6) Assisted in acquiring variances for fire protection pipe and valves for BHF (A135).
(7) Continued monitoring of groundwater and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
(8) Continued monitoring of Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
(9) Prepared and submitted July Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).

MTA LIBRARY

(10) Prepared and submitted July LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
(11) Coordinated and assured regulatory compliance for initial start-up flows from A130 and A135 dewatering.
(12) Prepared and submitted final contaminated soil assessment report for A130 to the Los Angeles Fire Department.
(13) Prepared and submitted underground tank closure report, A145 - No. 6, to the Los Angeles Fire Department.
(14) Monitored asbestos abatement activities at A165.
(15) Continued checking contractor's control points and layout at various construction sites.
(16) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175.
(17) Continued location survey at yards and shops contracts.
(18) Checked layout of A165 station.

H. Engineering Services

1. Received proposals from consultant J. P. Gould to represent RTD in analysis of Civic Center Station strut load claim and A141 tunnel hard rock claim and forwarded entire file to OCPM.
2. Completed four Metro Red Line geotechnical briefings for Corps of Engineers tunnel visitors.
3. Completed and distributed the wrap-up report on the investigation and analysis of soil bearing beneath Caltrans' El Monte Bus Bent No. 4 in Contract A130.
4. Made telephone inquiries on feasibility of perfoming in-situ stress measurements to help evaluate strut over-load situation in Civic Center Station.
5. Initiated directive by RE for A135 Contractor to finalize the Union Station construction exploratory borehole logs and summary report for inclusion in the A136 bid documents.
6. Completed and submitted draft report on the A141 Design Criteria Verification Study Plan Task C, a review of state and nationwide literature on tectonics and ground pressures.
7. Completed Finding of Fact on the A146 Contractor's claim of changed conditions due to alleged loss of "apparent cohesion" in cohesionless sands from effects of drill water used in compaction grout holes.
8. Made presentation to RTD's Change Review Board on the geotechncal aspects of the A141 changed condition claims for bouldery ground and hard ground.
9. Mapped the last of the geology exposed by A165 construction operations at the interface with A146.
10. Processed 40 field inquiries with MRTC to obtain clarification of design requirements.
11. Responded to 196 requests for information or documentation clarification from various contractors.
12. Completed claims avoidance review of Contract A187 Wilshire/Alvarado Station Stage II, final design.

13. Commenced claims avoidance review of Contract A157 5th/Hill Station Stage II final design.
14. Commenced comprehensive review of electrical embedments on Contract A145.
15. For Contract A112 - Approved 5 Contractor submittals for Warranty/Guarantee Certification, Future Body Support and Pit Covers, 2nd Floor Plumbing Detail drawings, HVAC drawings, and for Material Specs. Patio and Pavement Tiles.
    Approved as Noted 4 Contractor submittals for HVAC Controls/Instrumentation, Anchor Bolts for Hand Rails, Wheel Truing/Car Puller Pits, Monthly Progress Report, and Shop drawings for layout of Loading Dock.
    Reviewed for Record Only 1 Contractor submittal for Monthly Progress Report.
16. For Contract A130 - Approved 18 Contractor submittals for Slurry Wall Layout Design, Dewatering Flowmeter Data, Tie Back Anchor Proof Test Procedure and Test Results, Bent 4 Transfer Beam, Initial Tunnel Support System, Steel for Traction Power Substation, Fire Protection Welding Procedures, Rebar Mill Certs and Fillet Welding Procedures.
    Approved as Noted 8 Contractor submittals for Slurry Wall Internal Bracing, Installation Details for Drilled Piers, Caisson Installation, Welding Procedure for Caissons, Steel Drawings for Traction Power Substation, Cable Tray and Supports, Traffic Control Plan and Tie Back Anchor Performance/Test Results.
    Rejected 1 Contractor submittal for Victaulic Coupling.
17. For Contract A135- Approved 11 Contractor submittals for Cable Tray & Supports, Tie Back Anchor Test Procedure, Monthly Narrative and Status Reports, Rebar Mill Tests and Deck Forms - Vehicle Bridge.
    Approved as Noted 8 Contractor submittals for Load Cells, Lift Drawings, Rebar Details, Anchor Test Results and A135/A141 Interface Design.
    Rejected 1 Contractor submittal for Miscellaneous Metal Embeds.
    Reviwed for Record Only 4 Contractor submittals for Log of Borings for Instrumentation and Tie Back Anchor Tests.
18. For Contract A135BH - Approved 8 Contractor submittals for Street Level Piping, 6" Sanitary Sewer, Anchor Bolts, Cert. of Treatment-Rough Carpentry and Welding Procedures/Certificates.
    Approved as Noted 6 Contractor submittals for Basement Piping and Mechanical Room, Street Level Toilet Details, Conveyor Electrical and Carpet and Flooring.
    Rejected 1 Contractor submittal for Basement Toilet Rooms.
19. For Contract A141 - Approved 3 Contractor submittals for Rebar Test Reports, Columns and Crosspassages & Sump Relocations.
    Approved as Noted 10 Contractor submittals for Mined Crosspassages, Progressive Shoring, Concrete Lift Drawings for Slabs and Walls and Shield Removal Plan.

Rejected 2 Contractor submittals for Grating and Tunnel Mining Machine Removal.

20. For Contract A145 - Approved 11 Contractor submittals for Metal Framing and Grating, Welder Qualifications, Certs./Tests Reports for Nelson Studs, Hydraulic Pipe System Materials, Welding Procedures and Welder Qualifications, Rebar Splice, Metal Hatch Spring Assembly/Grating and Concrete Bonding Agent.
Approved as Noted 9 Contractor submittals for Column Forms, Phase II Excavation Support, Deck Beams over S.B.R.S., Mezzanine Falsework and Forms, Exterior Wall Form Layout, Invert Lift Drawing, Staging for Telephone Duct Relocation and Rebar Drawings and Details.
Rejected 1 Contractor submittal for Tunnel Mining Machine Removal at 4th/Hill.
Reviewed for Record Only 1 Contractor submittal for Abrasive Blast Equipment.
21. For Contract A146 - Approved 4 Contractor submittals for Segment Strut, Walkway Dimensions, Wet Standpipe System and Walkway Reinforcement.
Approved as Noted 5 Contractor submittals for Reinforcing Steel, Miscellaneous Metal, Monthly Narrative and Status Report, Concrete Walkway Covers-QA Program.
Rejected 2 Contractor submittals for Monthly Progress Status Report and Cross Passage Opening Support.
22. For Contract A165 - Approved 20 Contractor submittals for Lift Drawings on Exterior Walls, Base Slab, Columns, Roof Slab, Exhaust Duct and Roosevelt Building Footing and Slab, Materials and accessories, Ground Box, Junction Box, Rebar Drawings for Columns Mezzanine Slabs, LRT Platform and Stairs, and Rebar Mill Test Reports.
Approved as Noted 11 Contractor submittals for Rebar Drawings MRT Interior Columns, Rebar Drawing Overhead Trainway Exhaust Duct Area, Rebar Drawings for Roof Slabs, Rebar Drawing Exterior Wall, Roof Slab Lift Drawings, Lift Drawing Base Slab, Lift Drawing Roosevelt Building Elevator Shaft, Lift Drawing Roosevelt Building Sub-Basement Slab and Lift Drawing Base Slab.
Rejected 1 Contractor submittal for Steel Columns Repair Welding Procedures.
Reviewed for Record Only 2 Contractor submittals for Column Ultrasonic Cert. & Weld Inspection.
23. For Contract A167 - Approved 6 Contractor submittals for Schedule of Values, Product Data per Paint Finish Schedule, Geocoustic Samples, Lath, Gypsum Board and Plaster, Domestic Water Heater and Galvanized Rigid Steel Conduit.
Approved as Noted 2 Contractor submittals for Monthly Progress Status Report and Fire Protection Product Data.
Rejected 3 Contractor submittals for Schedule of Values, Hollow Metal Doors and Frames and Victaulic Couplings & Fittings.

24. For Contract A171 - Approved 4 Contractor submittals for Invert Repair, Wet Standpipe Support Layout, Coating for Sump Pump Discharge Line and Walkway Cable Trench-Drainage Holes.
Approved as Noted 4 Contractor submittals for Monthly Status & Progress Report, HVAC System Fire & Smoke Dampers and Connection to A165.
Rejected - 3 Contractor submittals for Revised Part 2 Schedule and Sump Pump Station Piping, Ladder & Grating.
25. For Contract A175 - Approved 7 Contractor submittals for Tunnel Lighting Fixture, Rebar Drawings, Product Cert./Test Report for Nelson Studs, Miscellaneous Metal Underplatform Vent Assys and removal of Walers at A171/A175 Interface.
Approved as Noted 4 Contractor submittals for Recalculations for Formed Walls, Frame and Grating Embeds, Metal Fabrications and Concrete Mix Designs.
Rejected 5 Contractor submittals for Monthly Progress Narrative and Status Reports, Shoring So. Blast Relief Shaft, S.W. Intake & Exhaust Shaft and Slab Reshoring.
26. For Contract A610 - Approved 7 Contractor submittals for Traffic Control Plans, Catalog Data for BFP's and Valves and Frog Details.
Approved as Noted 2 Contractor submittals for Monthly Progress Status Reports.
27. For Contract A612 - Approved as Noted 1 Contractor submittal for Insulators Material Test Report and Cert.
28. For Contract A616 - Approved 1 Contractor submittal for Fastener Test Results.
29. For Contract A620 - Approved 1 Contractor submittal for Acceptance Test Report for Speed Fraters.
Approved as Noted 7 Contractor submittals for Bar Chart Schedule & Monthly Narrative, FRD Releases and Book of Plans Updates and ATC Vehicle Carried Subsystem.
Rejected 1 Contractor submittal for Exterior Cable Test Plan Report.
30. For Contract A630 - Approved as Noted 3 Contractor submittals for 38KV Vacuum Circuit Breaker Test Report, Bus Duct Drawings and Auxiliary Power Transformers.
Rejected 1 Contractor submittal for AC/DC Conversion Equipment.
31. For Contract A631 - Approved as Noted 1 Contractor submittal for Network Analysis System, Part 1.
32. For Contract A640 - Approved 3 Contractor Submittals for CTS Equipment Floor Plan, P.A. Subsystem and Power Subsystem & Equipment Layout.
Approved as Noted 2 Contractor submittals for Closed Circuit T.V. and Color Coordination and Lighting Scheme.
Rejected 1 Contractor submittal for Power Subsystem & Technical Data.
33. For Contract A710 - Approved 2 Contractor submittals for Quality Assurance Program and Monthly Schedule Update.

Approved as Noted 1 Contractor submittal for Elevator Cab.

34. For Contract A740 - Approved 1 Contractor submittal for Test Reports for Dampers.
Approved as Noted 1 Contractor submittal for Screens for Dampers.
Rejected 1 Contractor submittal for Monthly Report and Schedule.

35. For Contract A745 - Approved 1 Contractor submittal for Monthly Report and Schedule.

I. PROJECT CONTROLS

(1) Processed Change Requests: A112-CR-131, A112-CR-132, A112-CR-133, A112-CR-134, A112-CR-135, A112-CR-138, A130-CR-034, A130-CR-035, A135-CR-052, A135-CR-054, A135-CR-055, A141-CR-121, A145-CR-046B, A146-CR-038, A146-CR-039, A165-CR-004, A165-CR-087 (RTN'D TO A165), A167-CR-007, A175-CR-054, A175-CR-056, A610-CR-070, A610-CR-075, A610-CR-076, A610-CR-077, A610-0CR-078, A616-CR-012, A630-CR-002, A630-CR-003. A710-CR-005, and A710-CR-007.

(2) Processed Change Notices: A130-CN-020A, A130-CN-021, A135-CN-023, A135-CN-025, A135-CN-026, A141-CN-048, A141-CN-069, A141-CN-073, A145-CN-045, A165-CN-037, A165-CN-038, A175-CN-034, A610-CN-033 and A610-CN-036.

(3) Processed Change Orders: A112-CO-053, A112-CO-054, A112-CO-055, A130-CO-025, A130-CO-026, A130-CO-027, A135-CO-02L.1, A135-CO-002ZB, A135-CO-002ZC, A135-CO-002ZD, A135-CO-002ZE, A135-CO-008A, A145-CO-064, A145-CO-095, A146-CO-027PTI, A146-CO-028, A146-CO-029PTI. A165-CO-017C, A165-CO-032D, A171-CO-003, A171-CO-012PTII, A171-CO-001, A175-CO-029, A175-CO-038, A175-CO-039, A610-CO-048, A1610-CO-051, A610-CO-052, A610-CO-055, A610-CO--56PTI, A610-CO-057, A616-CO-011, A620-CO-012, A630-CO-001, A640-CO-002, A710-CO-004, A710-CO-007 and A755-CO-002.

(4) Processed through TRACS, 42 executed Change Orders: A112-CO-010, A112-CO-010A, A112-CO-051A, A112-CO-054, A112-CO-055, A112-CO-056, A112-CO-057, A130-CO-022, A130-CO-025, A130-CO-026, A130-CO-027, A135-CO-002ZC, A135-CO-002ZD, A135-CO-002ZD, A135-CO-008A, A144-CO-013A, A144-CO-021, A144-CO-022, A145-CO-043B, A145-CO-49A, A145-CO-090, A145-CO-091, A145-CO-093, A165-CO-028, A165-CO-032A, A165-CO-032B, A165-CO-032C, A165-CO-032D, A171-CO-012A, A175-CO-038, A175-CO-039, A175-CO-040, A610-CO-050A, A610-CO-052B, A610-CO-053, A610-CO-055, A610-CO-056, A610-CO-057, A620-CO-020, A620-CO-010 and A620-CO-011.

(5) Processed Potential Claims: A112-PC-049, A135-PC-044, A135-PC-042, A141-PC-020/022, A141-PC-049, A141-PC-073 A141-PC-138, A141-PC-141, 141-PC-142, A141-PC-143, A141-PC-146, A146-PC-045, A165-PC-072, A165-PC-074 AND A610-PC-039.

(6) Processed Change Technical Evaluations: A112-CR-131, A130-CR-030, A130-CR-036, A130-CR-038, A112-CR-129, A112-CR-130, A140-CR-031, A144-CR-026, A145-145A-CR-146, A146-CR-074, A146-CR-073,

A135-CR-052, A141-CR-119, A141-CR-121, A145-CR-108, A145-CR-148,.
A146-CR-027, A146-CR-038, A165-CR-077, A165-CR-084, A165-CR-086, A167-CR-077, A165-CR-086, A167-CR-007, A171-CR-008, A171-CR-027, A171-CR-030, A175-CR-053, A610-CR-076, A612-CR-001, A620-CR-028, A630-CR-002, A630-CR-003, A630-CR-004, A640-CR-023 And A650-CR-012A.

(7) Processed Force Account Change Packages: A146-CO-028, and A165-CO-021A, A165-CO-030 and A165-CO-038.

(8) Processed Monthly Payment Estimates for 18 Contracts: A112, A130, A135, A141, A144, A145, A146, A165, A167, A171, A175, A610/A115, A616, A620, ~~A732~~, A740, A745, and A750.

(9) Completed a close-out reconciliation on 7 Force Account Change Orders: A145-CO-028, A145-CO-028A, A145-CO-025, A145-CO-025A, A145-CO-025B, A145-CO-067 and A165-CO-038.

(10) Reviewed Contractor Monthly Progress Reports.

(11) Prepared Scheduling inputs to RTD Monthly Status Report.

(12) Approved as noted A631 Part I Schedule Submittal.

(13) Rejected A167 Part II Schedule Submittal.

(14) Approved as noted A146 and rejected A171 Part II Schedule revisions.

(15) Reviews in process for Part II Schedule revisions from A130, A145 and A165.

(16) Completed a successful implementation of PC TRACS on the project.

(17) A-112 Prepared an estimate for sprayed on Fireproofing, made a take off of quantities. Reviewed contractor's claim and attended negotiations for settlement.

(18) A-130-CR-015A Completed estimate for revisions to 8" fire protection line on west side of retaining wall.

(19) A130-CR-031 Began estimate for revisions to incoming electric service room.

(20) A130-CR-026 Began review for second revision to communications duct bank connection to LA Fire Department and Pac Bell.

(21) A-130-CR-030 Completed revision of Contractors value engineering proposal for deletion of decking at A130/A135 interface.

(22) A135-CR-004 Continued review of proposals for changes to LAUPT Baggage Handling facilities and attended negotiations for settlement.

(23) A-135 Review miscellaneous proposals submitted by Contractor.

(24) A141-CR-054 Reviewed contractor's proposal for changes to curbs and walls, emergency fan room, met with RTD and Contractor to clarify scope of work and quantities.

(25) A-141-CR-100 Completed review of elevator machine room changes.

(26) A-141-CR-121 Prepared estimates for revisions to elevator No. 201 and 101 Hoistway Door opening.

(27) A-141-CR-011 Reviewed contractors revised proposal. Prepared estimates, attended meetings with RTD for

clarification of proposals, outline development of tunnel equipment standby rates, and attended negotiations with RTD and contractor.

(28) A-141 Met with RE and PE to clarify scope of work and to outline PDCD estimates.
(29) A-146 Reviewed contractor's proposed equipment costs for Force Account work, made revisions to PDCD rates where required.
(30) A-165 Reviewed contractor's revised quantities for decking vs. PDCD takeoff.
(31) A-165-CR-023 Reviewed contractor proposal, prepared comparison summary with PDCD estimate.
(32) A-175 Prepared estimate to complete for interface with A-171 claim.
(33) A-175-CR-035 Met with RTD and contractor to clarify scope of work, quantities, and negotiate settlement for incoming electrical service room changes.
(34) A-610/A115 Prepared estimate for options due to tunnel access delay.
(35) A-610/A115-CR-017 Prepared estimate for changes in conductor sizes and number in underground ductbank.
(36) A-610/A115-CR-073 Prepared estimate for changes and added communication duct bank.

J. CM Meetings in August 1989

Date	Agency/Company	General Subject
August 1	RTD	A-141-CR-11. Reviewed PDCD & Contractor estimates for overhead delay and tunnel equipment standby costs.
August 1	RTD	A-175. Review Interface with A-171 claim. Establish position.
August 1	RTD/Walsh & Sub.	A-112. Negotiations to settle claimed additional sprayed on fireproofing.
August 2	RTD/TSP & Sub.	A-175-CR-035. Negotiations for settlement of revisions of incoming electrical service room.

Aug. 2, 16, 23, 30	RTD	Claims Review Board Meeting
August 2	RTD, MRTC, LACoSD, LAPD, BAH, RTD Police	General Project Security
August 3	RTD/LAFD	A610/A115 Follow-up Monitoring Program
August 4	MRTC, Converse	A141 Hard Rock Investigation
August 7, 15, 21, 29	RTD	Change Control Boad Meeting
August 8	RTD/TSP & Sub.	A-135-CR-004. Met to resolve scope of work & electrical quantity changes included on contained drawing. LAUPT Baggage Handling Facilities.
August 9	RTD	A-141-CR-011. Met to review contractor revised proposal on delayed access to Union Station Land Parcel.
August 9, 24	Contractors, DIA, RTD, Argonaut, LAFD	Project Safety Review
August 9	RTD/TSP & Sub.	A-135-CR-004. Negotiations on Electric Changes conformed drawings and Police room. LAUPT Baggage Handling Facilities.
August 10	RTD/TSP & Sub.	A-130-CR-015/015A. Met to negotiate changes 8" fire protection line.
August 11	Department of Transportation of Brazil	Metro Red Line briefing
August 11, 14	MRTC	A135 Fire Protection Valve Pit

August 15	RTD/TSP	A-141-CR-011. Negotiations on overhead portion of delayed access to Union Station Land Parcel.
August 15	MRTC, Converse, Peck, Brekke	B331 Geotechnical Investigation
August 16	RTD/TSP	A-141-CR-011. Met for negotiations, but principal parties absent. Reviewed data needed.
August 16	RTD/TSP	A-135-CR-004. Negotiations miscellaneous permanent material and subcontract changes. LAUPT Baggage Handling Facilities.
August 16	RTD	A-141-CR-011. Reviewed audit report and details.
August 16	MRTC, Earth Technology, Peck, Brekke	Phase II Geotechnical Investigations
August 18	Santa Fe Engineering, Inc. and Civil Engineering students from Sweden	Metro Red Line briefing
August 18	RTD/TSP	A-141-CR-054. Review scope of work and quanties due to added and relocated curbs, emergency fan room.
August 18	RTD/TSP & Sub.	A-130-015 & A15A. met to negotiate changes 8" fire protection line.
August 18	RTD/TSP	A-141-CR-011. Negotiations overhead, field service and miscellaneous equipment, delayed access to Union Station parcels.
August 21	RTD/TSP/MRTC	A-135-CR-004. Review scope of work and quantities hardware and panic door services. Baggage Handling.

August 22	RTD/TSP	A-135-CR-004. Negotiations electrical changes conformed drawings, Baggage Handling.
August 22	RTD	A-141-CR-011. Review RTD position on delayed access Union Station.
August 23	RTD, MRTC	Wet Standpipe requirements in tunnels.
August 23	Atkinson	A145 embedment requirements.
August 24	RTD/TSP	A-141-CR-011. Negotiate settlement miscellaneous overhead items, delayed access to Union Station.
August 24	RTD, LAFD, Cal DOG, Shank-Obayashi	A146 disposition of steel casing
August 24	Geofon	A141 Extensometer installation

SECTION VII

SUMMARY OF ACTIVITIES PLANNED FOR SEPTEMBER

VII. SUMMARY OF ACTIVITIES PLANNED FOR SEPTEMBER 1989

A. Administration and Accounting

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

B. Quality Assurance

(1) Continue to review welding activities and conduct fabrication inspections as required in support of facilities and systems contracts.
(2) Continue to monitor on-site testing activities and Smith-Emery laboratory activities.
(3) Continue to support factory acceptance testing activities for systems contracts.
(4) Continue review of Project QA Manuals.
(5) Continue review of contractor submittals.
(6) Conduct audits at contractor facility for Contracts A740/A745 and A640.
(7) Participate in contract closeout activities for Contact A-112.

C. Equal Opportunity Administration

(1) Conduct contract compliance site visits, employee interviews and monitor reporting requirements for Contracts No. A112, A130, A135, A141, A145, A146, A165, A167, A171, A175, A610/115, A612, A615, A616, A620, A640, A710, A740 and A745.
(2) Evaluate Contractor EO performance with respect to approved specifications and apply penalty assessments as required.

D. Contracts and Procurements

(1) Upon receipt of District approval:

MTA LIBRARY

(a) Issue three remaining AWP-6 Amendments to Associate Subcontracts.
(b) Issue two remaining AWP-6 Amendments to Subcontracts for Construction Photographic Services and Laboratory Testing and Inspection Services.
(c) Issue three Subcontract Amendments for AWP-6 consulting services.
(d) Issue Request for Quotations (RFQ) and resultant Purchase Order for five Personal Computers and related software.
(e) Issue RFQ's for annual requirements for office supplies and paper products.

E. Community Relations

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

F. Safety and Security

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

G. Construction Operations

(1) Continue construction management (CM) services at Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732;

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

(2) Continue coordination with governmental agencies and MOS-1 inspection with LADOT.
(3) Continue to process submittals and Master Agreement invoices on as-needed basis.
(4) Continue monitoring of groundwater and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
(5) Assure regulatory compliance for new discharges from A130 and A135 dewatering.
(6) Continue monitoring Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
(7) Prepare and submit August Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB).
(8) Prepare and submit August LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
(9) Present proposed 1990 water quality monitoring schedule to the CRWQCB.
(10) Continue to monitor instrumentation, building and ground settlement marks, various contracts.
(11) Continue to check Contractor's control points and layout.
(12) Continue to perform survey tasks as requested by RE's.
(13) Continue to perform as-built survey of tunnels for Contracts A141 and A146.
(14) Continue location surveys for yards and shops contracts.
(15) Continue to check slab pours for Contracts A141, A165 and A175.
(16) Perform control survey through AR tunnel (A171).
(17) Obtain necessary mechanical/plumbing permits from the City of Los Angeles in order to obtain sign-offs for building basements along Hill Street (eastside) (A145).

H. Engineering Services

(1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
(2) Continue to track northern A145 geology and instrumentation results as part of the A141 Design Criteria Verification Study, Task B.
(3) Continue to process Contractors' submittals for Contracts A112, A130, A135, A135BH, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750, and A795.
(4) Continue production of A161 as-built drawings.
(5) Complete claims avoidance review for Contract A157 5th/Hill Station Stage II.
*(6) Commence claims avoidance review for Contract A147, Civic Center Station, Stage II.

I. Project Controls

(1) Process Monthly Payment Estimates for all active contracts.
(2) Process all the executed Change Orders through TRACS.
(3) Continue close-out reconciliations for Force Account Change Orders.
(4) Review Contractor Monthly Progress Reports.
(5) Prepare Scheduling inputs to RTD Monthly Progress Report.
(6) Complete review of Part II Schedule revisions for A130, A145 and A165.
(7) Review A631 initial Part II Schedule Submittal.
(8) Review resubmittal of A167 Part II Schedule.

* See Page 43

DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS
8-26-89 TO 9-29-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-147	CIVIC CENTER STATION (STAGE II)	DWGS	CAR		08-17-89	09-07-89			*RESCHEDULED TO 10-6-89 BY PDCD
A-147	CIVIC CENTER STATION (STAGE II)	SPEC	CAR			09-07-89			*RESCHEDULED TO 10-6-89 BY PDCD
**									
A-157	5TH/HILL STATION (STAGE II)	DWGS	CAR		08-16-89	09-05-89			*RESCHEDULED TO 9-15-89 BY PDCD
A-157	5TH/HILL STATION (STAGE II)	SPEC	CAR		08-22-89	09-05-89			*RESCHEDULED TO 9-15-89 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 8-1-89, MRTC Design Review Schedule

SECTION VII

SUMMARY OF ACTIVITIES PLANNED FOR SEPTEMBER

VII. SUMMARY OF ACTIVITIES PLANNED FOR SEPTEMBER 1989

A. Administration and Accounting

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

B. Quality Assurance

(1) Continue to review welding activities and conduct fabrication inspections as required in support of facilities and systems contracts.
(2) Continue to monitor on-site testing activities and Smith-Emery laboratory activities.
(3) Continue to support factory acceptance testing activities for systems contracts.
(4) Continue review of Project QA Manuals.
(5) Continue review of contractor submittals.
(6) Conduct audits at contractor facility for Contracts A740/A745 and A640.
(7) Participate in contract closeout activities for Contact A-112.

C. Equal Opportunity Administration

(1) Conduct contract compliance site visits, employee interviews and monitor reporting requirements for Contracts No. A112, A130, A135, A141, A145, A146, A165, A167, A171, A175, A610/115, A612, A615, A616, A620, A640, A710, A740 and A745.
(2) Evaluate Contractor EO performance with respect to approved specifications and apply penalty assessments as required.

D. Contracts and Procurements

(1) Upon receipt of District approval:

(a) Issue three remaining AWP-6 Amendments to Associate Subcontracts.
(b) Issue two remaining AWP-6 Amendments to Subcontracts for Construction Photographic Services and Laboratory Testing and Inspection Services.
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(5) Assist RTD/GPA in coordinating noon hour construction briefings for the community.
(6) Update CR tenant mailing list, emergency contact information and CR merchant files.
(7) Continue to assist RTD with site visits and media requests.

F. Safety and Security

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

G. Construction Operations

(1) Continue construction management (CM) services at Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732;

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(16) Perform control survey through AR tunnel (A171).
(17) Obtain necessary mechanical/plumbing permits from the City of Los Angeles in order to obtain sign-offs for building basements along Hill Street (eastside) (A145).

H. Engineering Services

(1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
(2) Continue to track northern A145 geology and instrumentation results as part of the A141 Design Criteria Verification Study, Task B.
(3) Continue to process Contractors' submittals for Contracts A112, A130, A135, A135BH, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750, and A795.
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8-26-89 TO 9-29-89

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A-147	CIVIC CENTER STATION (STAGE II)	SPEC	CAR			09-07-89			*RESCHEDULED TO 10-6-89 BY PDCD
**									
A-157	5TH/HILL STATION (STAGE II)	DWGS	CAR		08-16-89	09-05-89			*RESCHEDULED TO 9-15-89 BY PDCD
A-157	5TH/HILL STATION (STAGE II)	SPEC	CAR		08-22-89	09-05-89			*RESCHEDULED TO 9-15-89 BY PDCD
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4 records listed. 4 values listed .

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

NOTE : Based on 8-1-89, MRTC Design Review Schedule

SECTION VIII

SUBCONTRACTOR/CONSULTANT STATUS

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VIII. SUBCONTRACTOR/CONSULTANT STATUS

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

SIXTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT

AUGUST 30, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUISITION	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											
	AMEND. NO. 12	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.											
	AMEND. NO. 13	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											
	AMEND. NO. 11	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											
	AMEND. NO. 12	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											
	AMEND. NO. 14	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.											
	AMEND. NO. 14	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											
	AMEND. NO. 13	08/07/89	04/12/89	06/30/89	07/20/89	06/30/89	07/06/89	07/10/89	07/27/89	$388,110	07/27/89	SIXTH AWP
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 AWP
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		$64,000		SIXTH AWP

**IN PROCESS

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

AUGUST 30, 1989

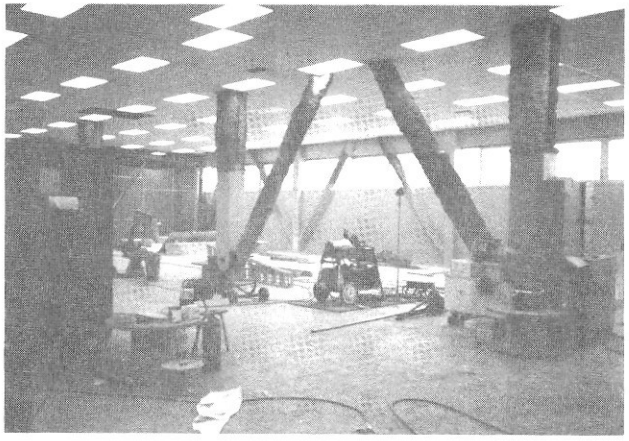
SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI-SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
11-SC-3369-1	RANDOLPH & TATE ASSOCIATES											
	AMEND. NO. 8	08/07/89	04/12/89	06/15/89	N/A	06/30/89	07/24/89	07/24/89	08/04/89	$20,000	08/08/89	SIXTH AWP
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		$10,000		SIXTH AWP
18-SC-3369-1	GEO GRAY/ PHOTOGRAPHY											
	AMEND. NO. 5	**	N/A	06/21/89	N/A			07/20/89		$48,000		SIXTH AWP
21-SC-3369-1	SMITH EMERY CO.											
	AMEND NO. 6	**	N/A	N/A	07/20/89			07/19/89		$632,300		SIXTH AWP
22-SC-3369-1	COLEMAN SECURITY SERVICES INC.											
	AMEND. NO. 4	07/12/89	N/A	07/14/89	N/A	08/08/89		07/14/89	08/04/89	$72,000		SIXTH AWP
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 EXTEN
35-SC-3369-1	MARY & SON MAINTENANCE (SITE CLEAN-UP)											
	AMEND. NO. 1	**	N/A	N/A	N/A	08/08/89	08/18/89	07/14/89	08/04/89	$24,000	08/18/89	SIXTH AWP
37-SC-3369-1	KAL KRISHNAN											
	AMEND. NO. 2	08/07/89	N/A	N/A	N/A	07/14/89	07/19/89	07/19/89	08/04/89	$93,279	08/08/89	SIXTH AWP
39-SC-3369-1	D'LEON CONSULTING ENGINEERS CO.											
	AMEND. NO. 1	08/07/89	N/A	N/A	07/20/89	07/20/89	07/20/89	07/21/89		$170,554		SIXTH AWP
40-SC-3369-1	TRANSMETRICS											
	AMEND. NO. 1	08/07/89	N/A	N/A	N/A	07/25/89	07/25/89	07/27/89		$74,591		SIXTH AWP
41-SC-3369-1	WALLY B. EVANS (CONSULTING AGREEMENT)	06/27/89	N/A	N/A	N/A			06/27/89		$13,500		
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	$92,000	08/17/89	SIXTH AWP
43-SC-3369-1	F.E. ENDACOTT	07/07/89	N/A	N/A	N/A	07/18/89	08/07/89	08/07/89		$7,500		SIXTH AWP

**IN PROCESS

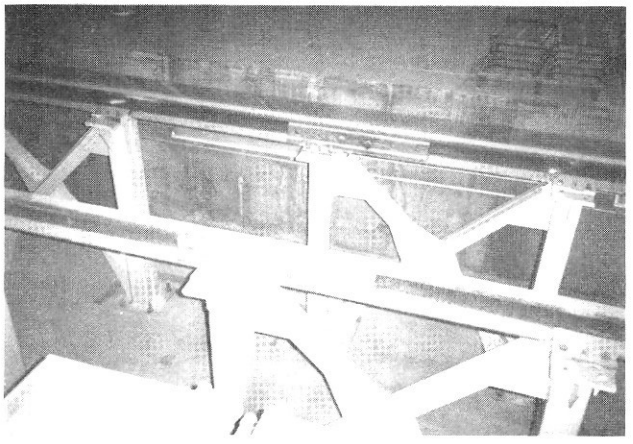
SECTION IX

CONSTRUCTION PROGRESS PHOTOS

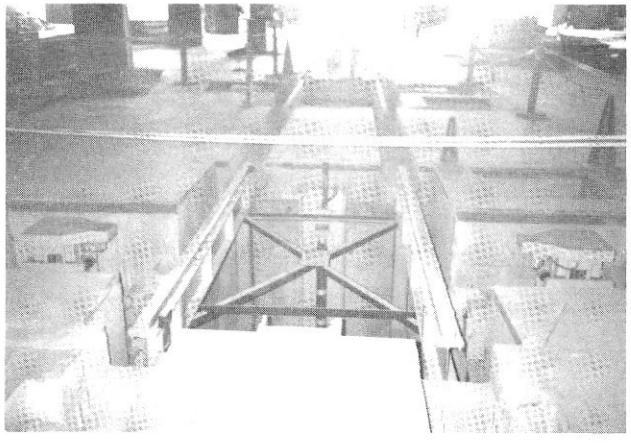
MAIN SHOP BUILDING
CONTRACT A112✓



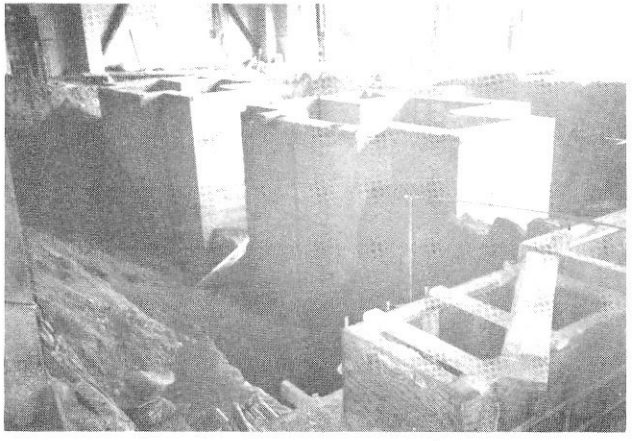
STORE SYSTEMS ROOM SUBSTANTIALLY COMPLETE



RAIL PEDESTALS IN S & I PITS – BOLTED, PAINTED AND READY FOR GROUTING OF BASES



CAR HOISTS AND BODY SUPPORTS EQUIPMENT INSTALLED IN PITS



THE LAST TWO CAR HOIST PITS (AT THE SOUTH END OF THE M & R BAY). FORMS STRIPPED AND READY FOR BACKFILL

LOS ANGELES **METRO RED LINE**

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

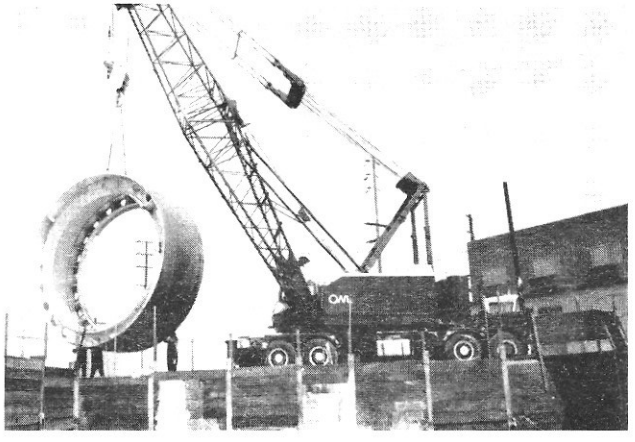
YARD LEADS & TRANSFER ZONE
CONTRACT A130



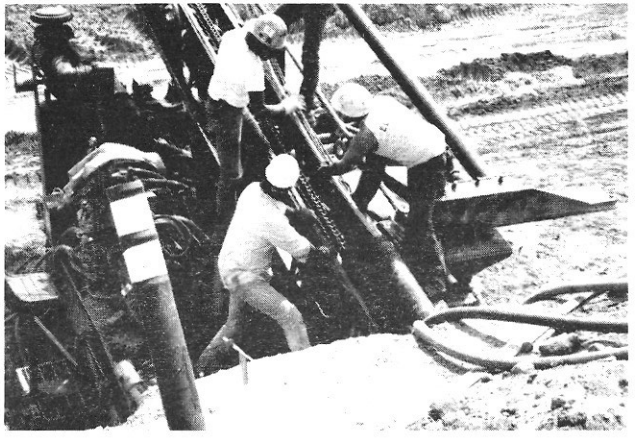
CUSTOM MADE KELLY BAR – FOR BENT #4 PILE ON EL MONTE BUSWAY



STRUCTURE EXCAVATION – TRACTION POWER AREA



SECTION OF TUNNEL SHIELD AT TUNNEL PORTAL



INSTALLING TIEBACK ANCHOR TENDONS

LOS ANGELES **METRO RED LINE**

RTD

PDCD

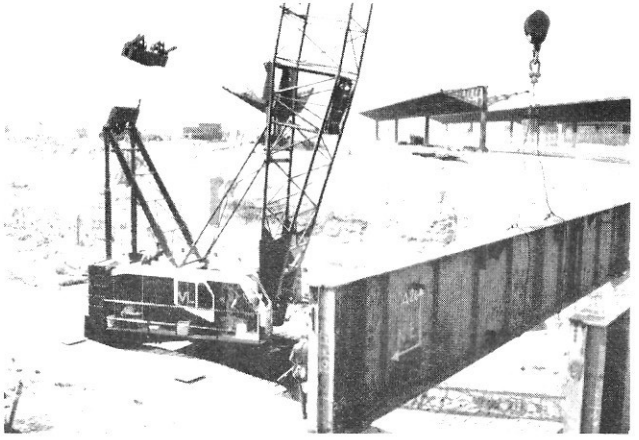
CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

UNION STATION
CONTRACT A135



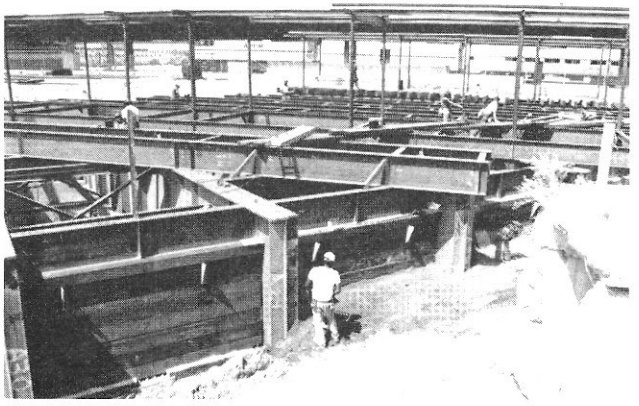
PLACEMENT OF CONCRETE FOR SLURRY WALL PANEL AT WEST END OF UNION STATION



ERECTION OF PLATE GIRDER FOR THE TEMPORARY RAILROAD TRESTLE

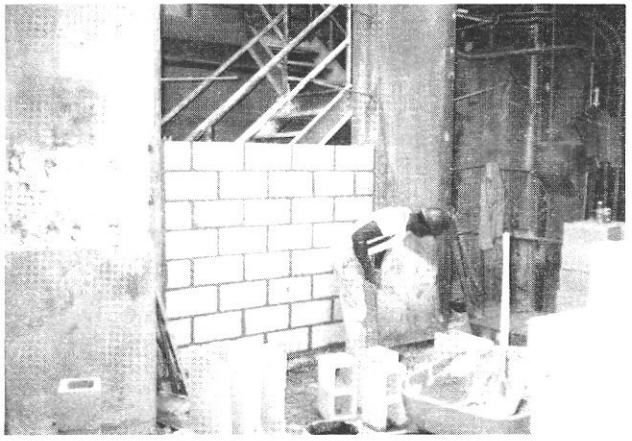


TERMINATION AND SPLICING OF ELECTRICAL CABLES IN THE LAUPT TRACKYARD AT VEHICULAR BRIDGE

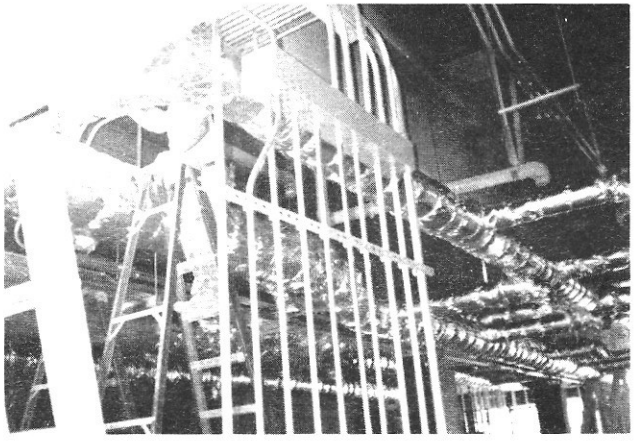


ERECTION OF STRUCTURAL STEEL FOR THE TEMPORARY RAILROAD TRESTLE

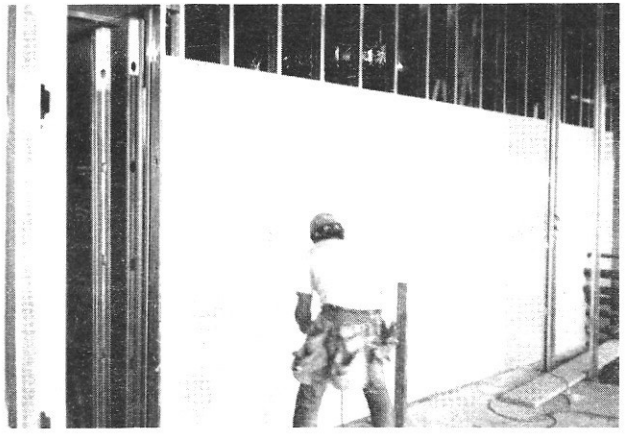
UNION STATION
CONTRACT A135 (Contd)



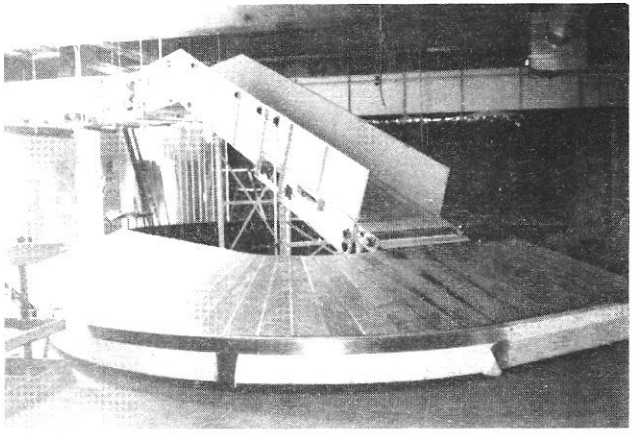
LAYING CONCRETE BLOCK FOR WALL AT STREET LEVEL IN THE BAGGAGE HANDLING FACILITY



INSTALLATION OF HVAC DUCTWORK AND ELECTRICAL CONDUIT IN THE BAGGAGE HANDLING FACILITY



INSTALLATION OF DRYWALL AT BASEMENT LEVEL IN THE BAGGAGE HANDLING FACILITY



ASSEMBLED BAGGAGE CAROUSEL #1 IN THE BAGGAGE HANDLING FACILITY

LOS ANGELES **METRO RED LINE**

RTD

PDCD

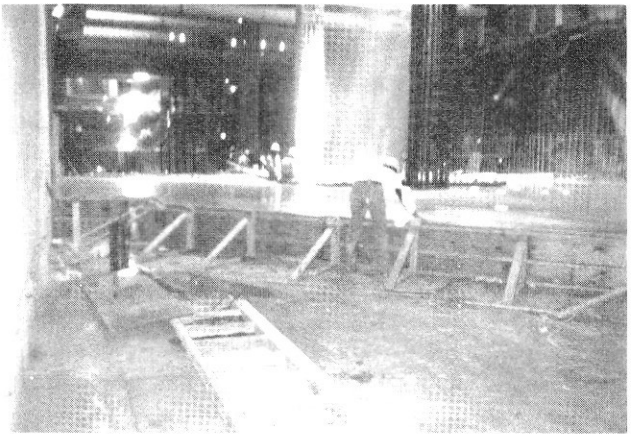
CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

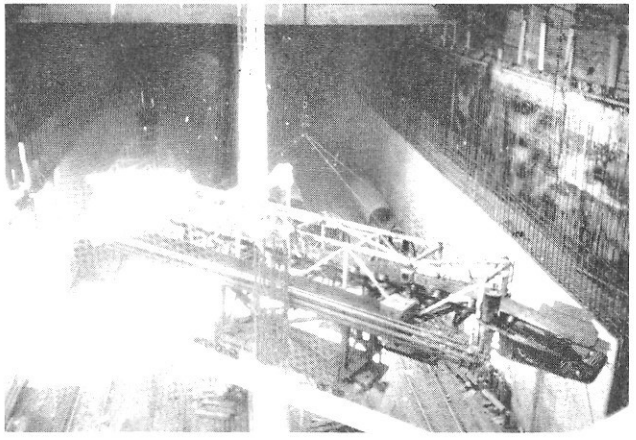
CIVIC CENTER STATION AND TUNNEL
CONTRACT A141



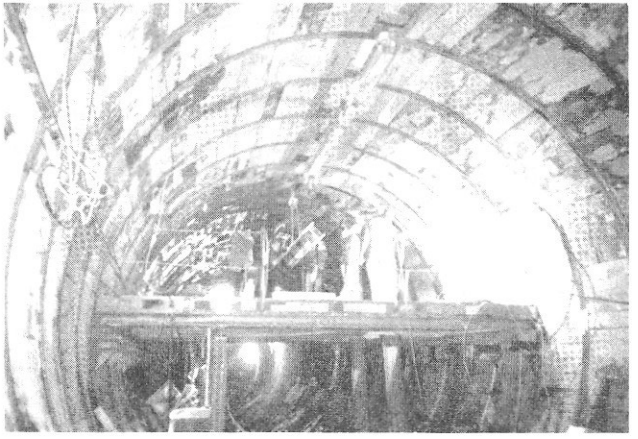
REMOVING TUNNEL SHIELD FROM 5TH & HILL STATION AFTER COMPLETING SOUTH AL TUNNEL EXCAVATION



CONCRETING FIRST MEZZANINE SUPPORTED SLAB (M4) AT CIVIC CENTER STATION



SWITCHING TUNNEL MACHINE TRAILING GEAR FROM EAST TO WEST SIDE OF CIVIC CENTER STATION



PREPARING TO MINE CROSS PASSAGE IN AR TUNNEL, NORTH OF CIVIC CENTER STATION

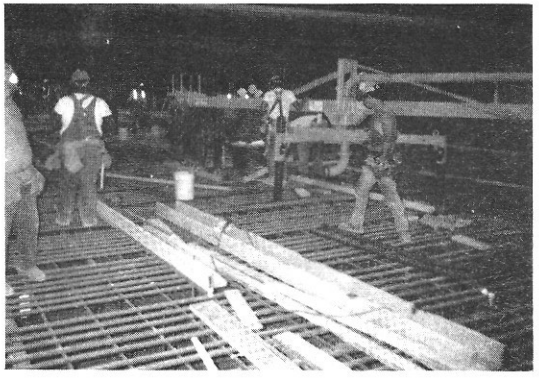
LOS ANGELES **METRO RED LINE**

PDCD

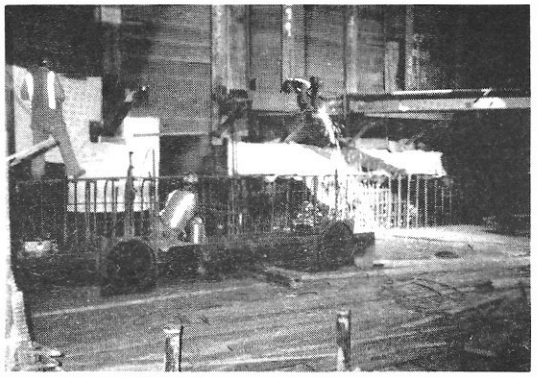
CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

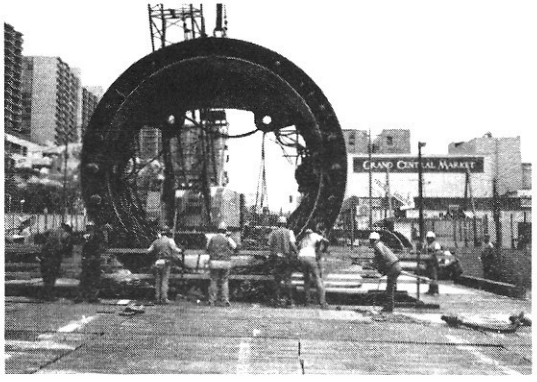
5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I
CONTRACT A145/A145A



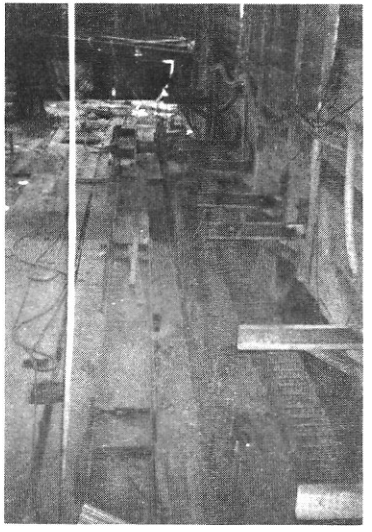
POURING CONCRETE FOR INVERTS #12 AND #13



STRUT/WALE REMOVAL OPERATION IN THE SOUTH END OF THE STATION



REMOVING THE A141 CONTRACT TUNNEL SHIELD AFTER BORING THROUGH INTO THE STATION'S NORTH END



WEST WALL FORM PREPARATION AT THE SOUTH END OF THE STATION

LOS ANGELES **METRO RED LINE**

RTD

PDCD

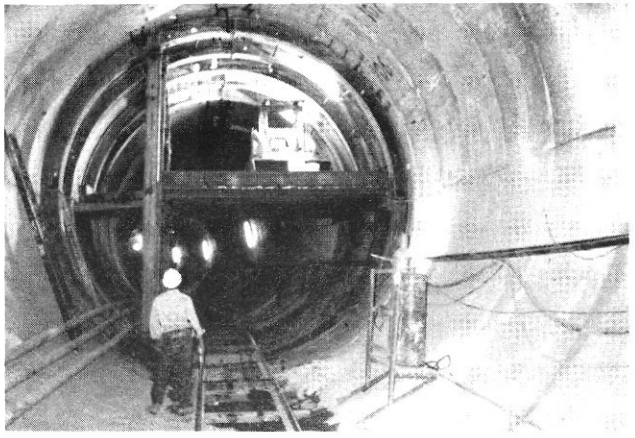
CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

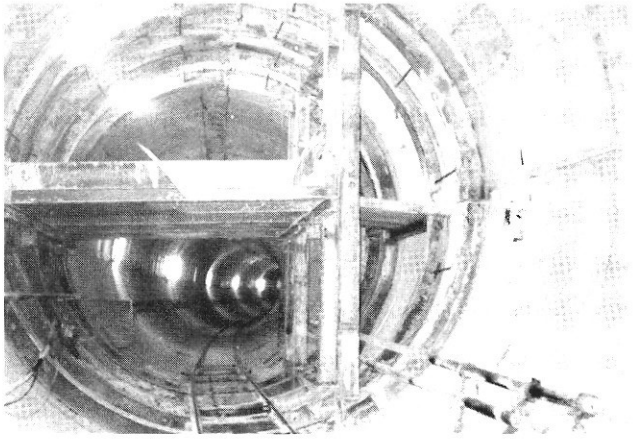
TUNNELS FROM 5TH/HILL TO 7TH/FLOWER
CONTRACT A146



SKID STEER LOADER WITH HYDRAULIC CHIPPER ATTACHMENT FOR USE IN EXCAVATING CROSS PASSAGES



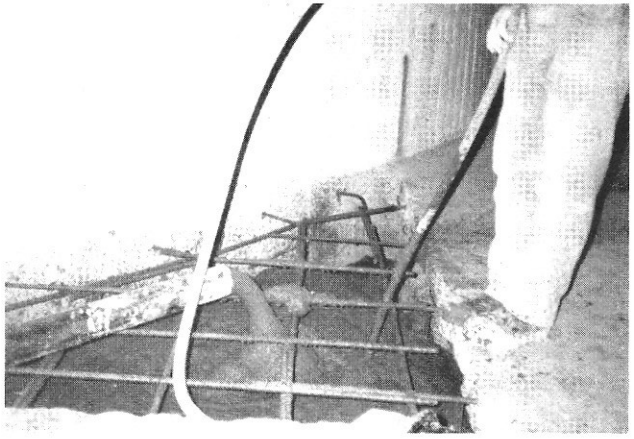
CROSS PASSAGE #7 BREAKOUT STEEL SUPPORT. SKID STEER LOADER IN PLACE TO DRIVE TOP HEADING. EXCAVATION WILL BE TO THE LEFT IN PICTURE



CROSS PASSAGE #8 BREAKOUT STEEL SUPPORT, EXCAVATION WILL BE TO THE RIGHT IN PICTURE

MTA LIBRARY

TUNNELS FROM 5TH/HILL TO 7TH/FLOWER
CONTRACT A146 (Contd)



RESTORATION IN PERSHING SQUARE GARAGE. JACKING POCKET BEING CONCRETED



WORKMEN REAMING OUT COMPACTION GROUT HOLES AT LOS ANGELES JEWELERS MALL



COMPACTION GROUTING SETUP IN ALLEY BETWEEN CALIFORNIA JEWELRY MART AND LOS ANGELES JEWELERS MALL

LOS ANGELES **METRO RED LINE**

RTD

PDCD

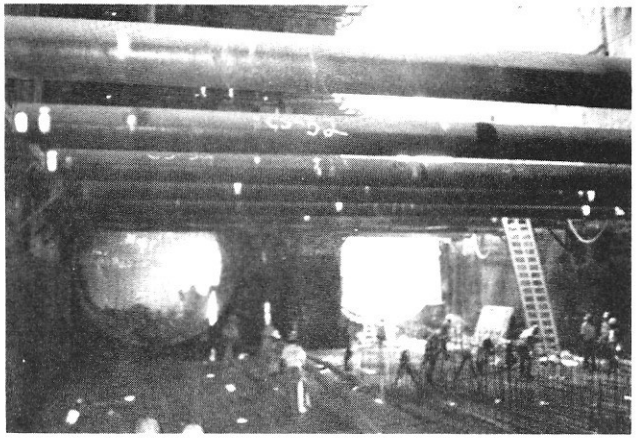
CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

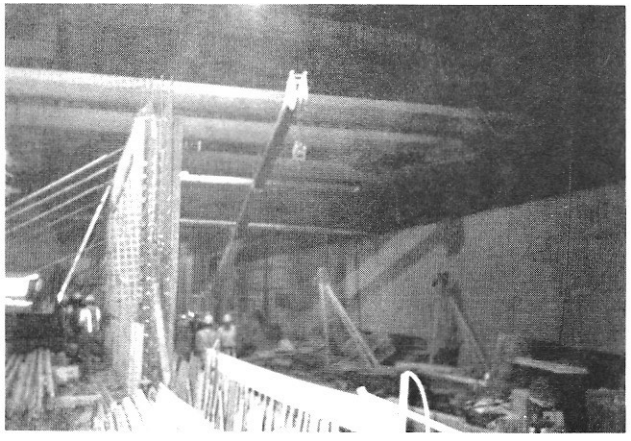
7TH/FLOWER STATION
CONTRACT A165



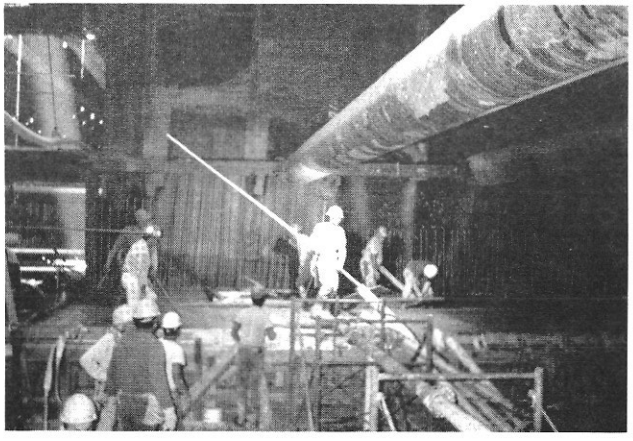
MRT STATION - EAST BULKHEAD 7TH ST.
A146 AL TUNNEL AT RIGHT BACKGROUND



MRT STATION - WEST BULKHEAD 7TH ST.
A171 AL AND AR TUNNELS IN BACKGROUND

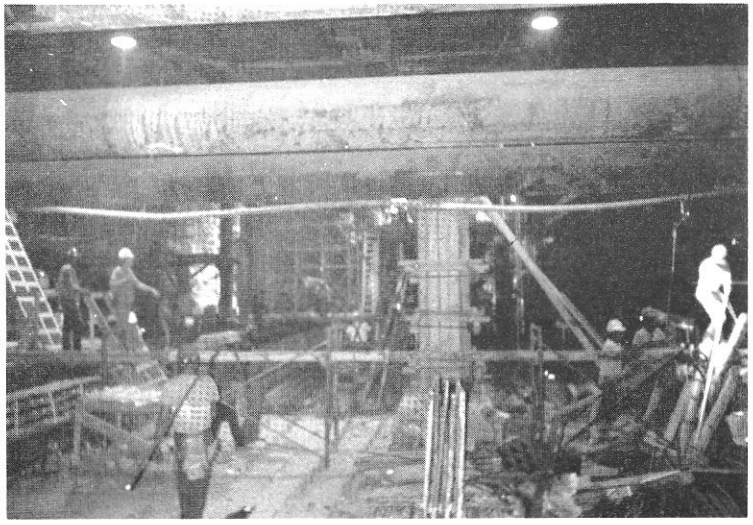


INSTALLING FORM WORK FOR LRT INTERIOR
WALLS, NORTH OF FLOWER

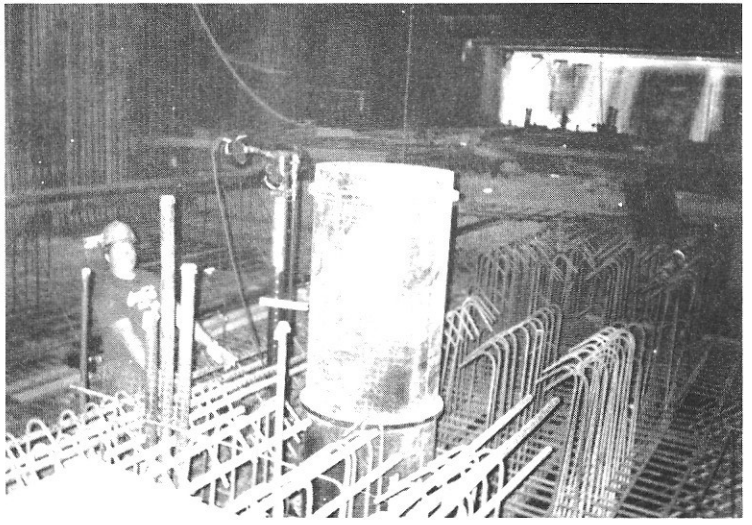


PLACING CONCRETE FOR LRT PLATFORM,
NORTH OF INTERSECTION

7TH/FLOWER STATION
CONTRACT A165 (Contd)



INTERSECTION OF 7TH & FLOWER, INSTALLING FORM WORK FOR COLUMN AT MEZANINE LEVEL



TESTING HYDRAULIC ELEVATOR LINES, EAST OF 7TH ST.

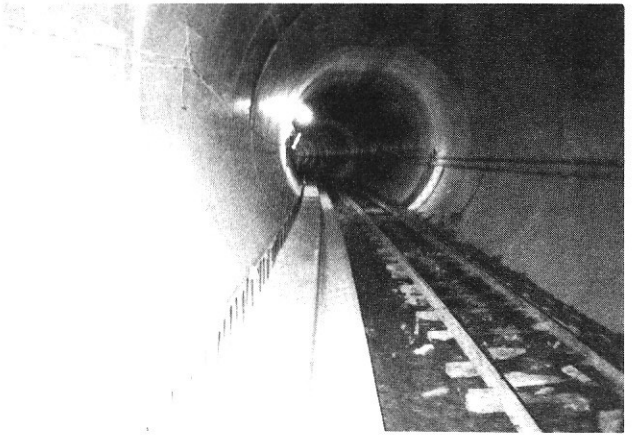
LOS ANGELES **METRO RED LINE**

PDCD

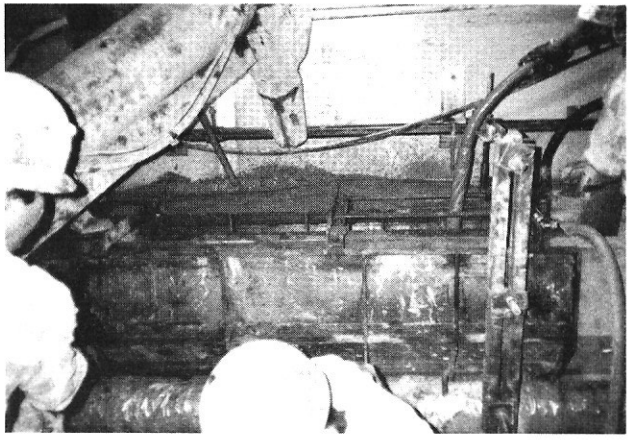
CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

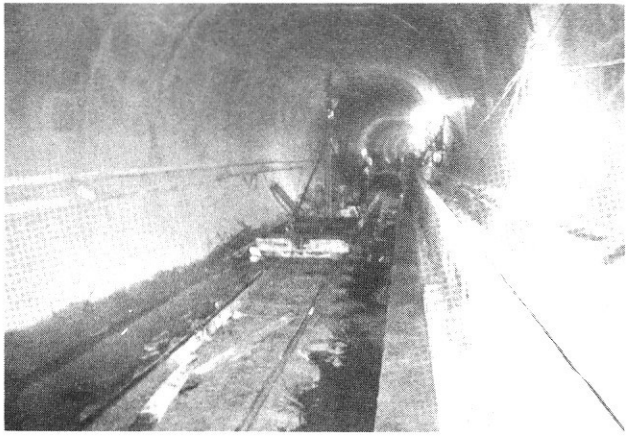
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO
CONTRACT A171



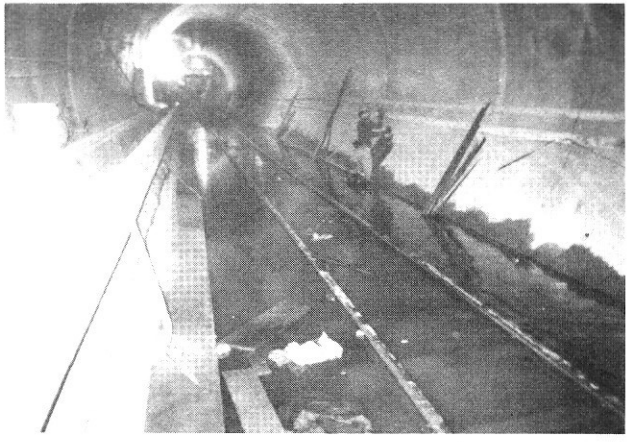
AL TUNNEL 1ST LIFT WALKWAY CONCRETE IN PLACE - STA 245+00



PLACING CONCRETE FOR 2ND LIFT WALKWAY IN THE AL TUNNEL

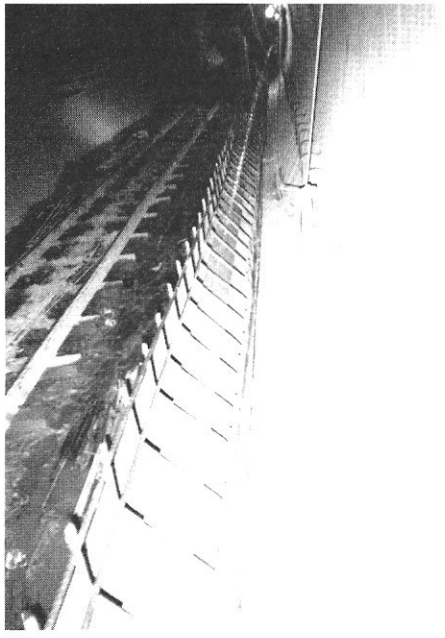


COMPLETED WALKWAY CONCRETE FOR AL TUNNEL

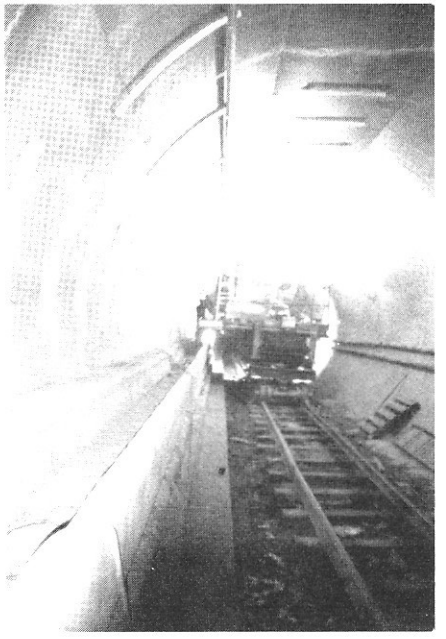


COMPLETED WALKWAYS AND WET STAND PIPE PLACEMENT IN AL TUNNEL, STA 212+00

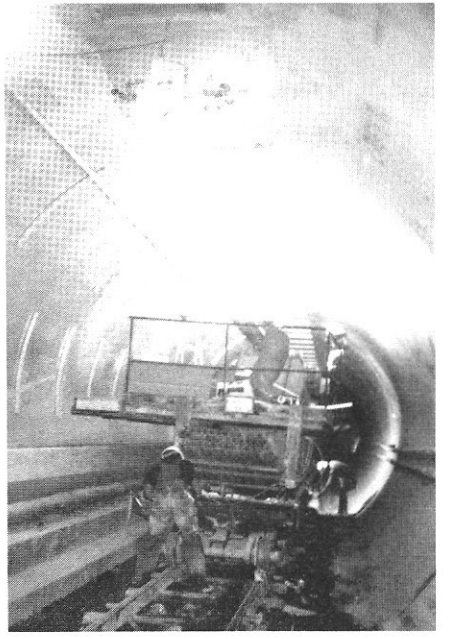
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO
CONTRACT A171 (Contd)



RESTEEL IS IN PLACE FOR 2ND LIFT - AL TUNNEL WALKWAY



AL WALKWAY AND WET STAND PIPE COMPLETE. ELECTRICAL HIGH CAR IS USED TO INSTALL UNISTRUTS



ELECTRICAL HIGH CAR IN USE TO INSTALL UNISTRUTS AND CONDUIT IN AL TUNNEL - STA 208+00

LOS ANGELES **METRO RED LINE**

RTD

PDCD

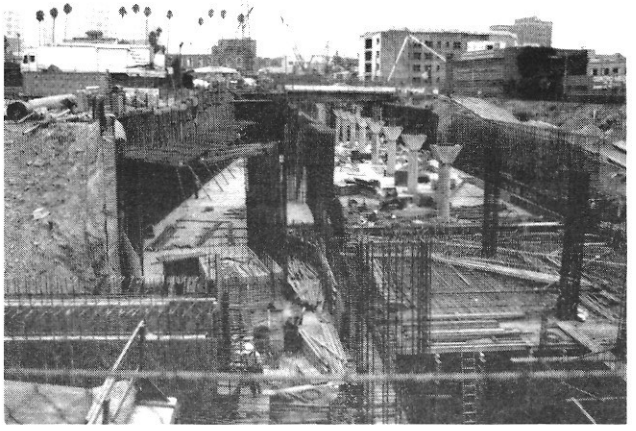
CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

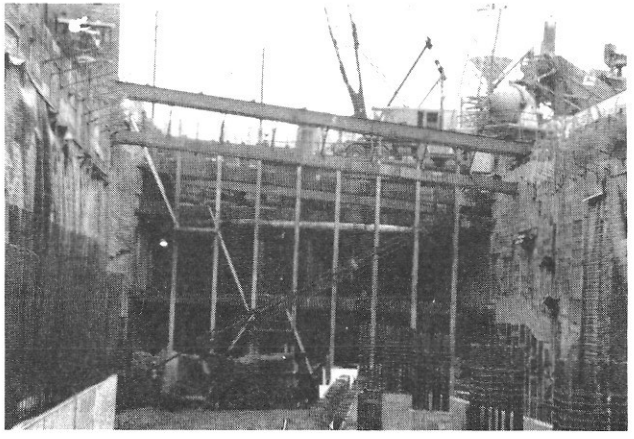
WILSHIRE/ALVARADO STATION - STAGE I
CONTRACT A175



END VIEW OF STATION CONSTRUCTION FROM MEZZANINE POUR #2 (WITH ALL THE CONDUITS) LOOKING EAST



ADDITIONAL END VIEW OF STATION PROGRESS ENCLUDING THE NORTH PASSAGEWAY FROM WEST END OF STATION LOOKING EAST

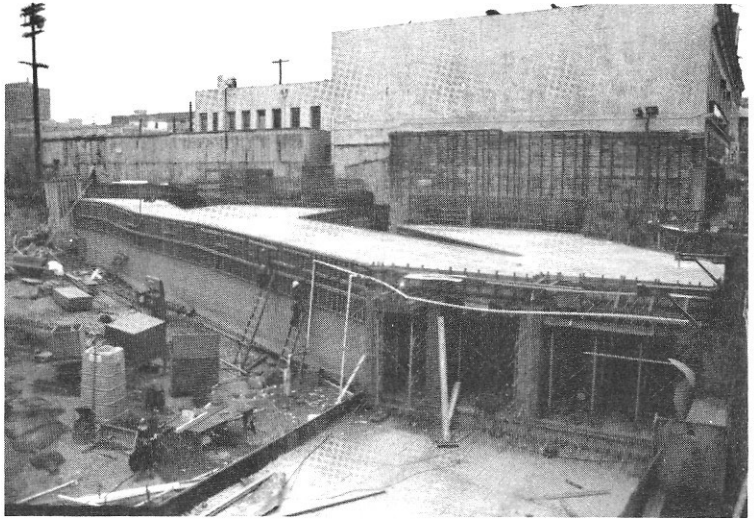


DRILLING FOR LAST ROW OF TIE-BACKS AT A171/A175 INTERFACE

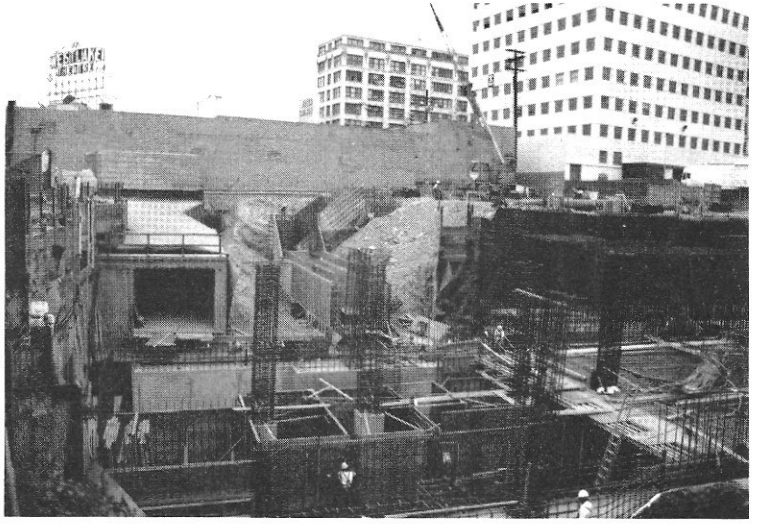


END VIEW OF STATION PROGRESS FROM EAST END OF STATION LOOKING WEST

WILSHIRE/ALVARADO STATION - STAGE I
CONTRACT A175 (Contd)



COMPLETION OF THE ROOF FOR THE SOUTH INTAKE AND EXHAUST SHAFTS



WEST END OF STATION INCLUDING INTERIOR WALLS, NORTH BLAST RELIEF SHAFT & EMERGENCY STAIR NO. 7

LOS ANGELES **METRO RED LINE**

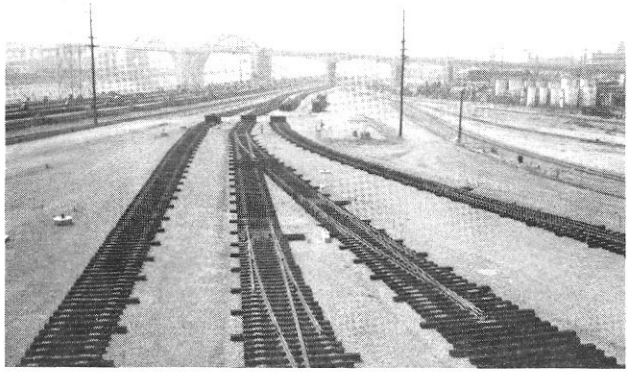
RTD

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD AUGUST 1989

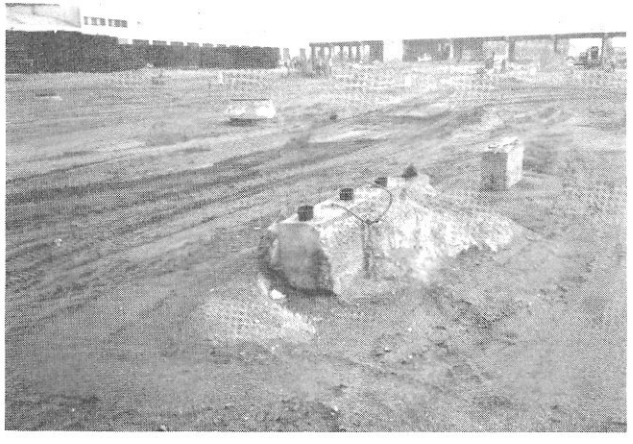
TRACKWORK INSTALLATION/YARD STORAGE AREA
CONTRACT A610/A115



SETTING OF PRE-ASSEMBLED TURNOUT SWITCHES AND FROGS. LOOKING SOUTH TOWARDS 6TH STREET BRIDGE FROM 4TH STREET BRIDGE



SETTING OF PRE-PLATED TIMBER TIES FOR MAINTENANCE/REPAIR AND SERVICE/INSPECTION TRACKS, SOUTH OF MAIN SHOP BUILDING, LOOKING NORTHWEST FROM 4TH STREET BRIDGE TOWARDS MAIN SHOP BUILDING



SUBGRADE PREPARATION FOR M.O.W. PARKING LOT AND OUTDOOR STORAGE/M.O.W. TRACKS. LOOKING NORTHWEST TOWARDS M.O.W. BUILDING AND FIRST STREET BRIDGE



UNLOADING A745 AIR HANDLING AND ELECTRICAL EQUIPMENT FOR STORAGE AT M.O.W. BUILDING. LOOKING NORTHWEST TOWARDS M.O.W. BUILDING AND 1ST STREET BRIDGE