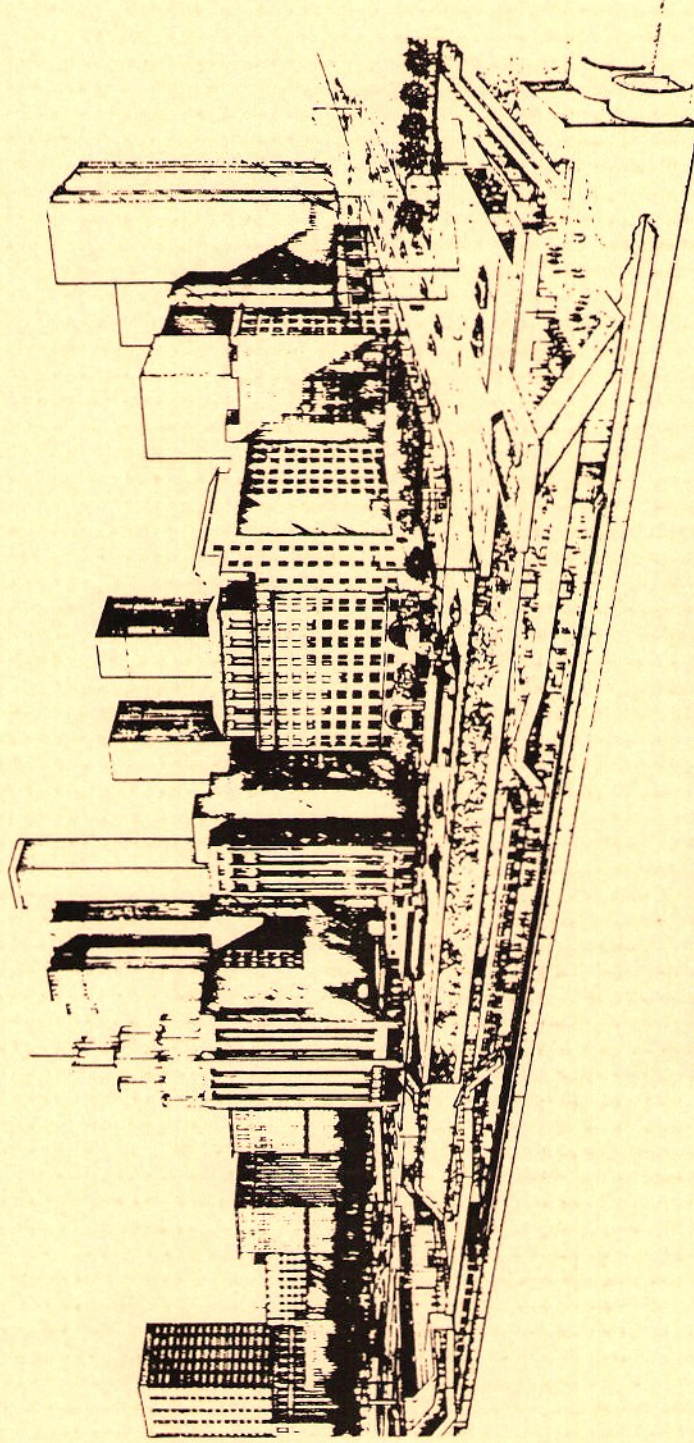


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no. 61



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



REPORT NUMBER 61
JULY 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

JULY 1989

presented to

Southern California Rapid Transit District

CONTRACT NO. 3369

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

Month JULY Year 1989

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LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

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SECTION I

**CONSTRUCTION MANAGER'S
SUMMARY STATEMENT**



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MAJOR CM ACTIVITIES

I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

This Contract Performance Report (CPR) for the month of July 1989 is the first CPR in the Sixth Annual Work Plan (6th AWP) and covers the period July 1 to July 28, 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 of groundwater and construction water discharges at A141, A144, A145, A146, A165, A171 and A175. Continued monitoring Discharge Monitoring Stations at the Ballona Creek and Los Angeles River. Prepared and submitted June Discharge Monitoring Report (DMR) to the California Regional Water Quality Control Board (CRWQCB). Prepared and submitted June LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Prepared assessment report for contaminated soil re-use at A130. Prepared and submitted Biotoxicity Report to the California Regional Water Quality Control Board.

Utilities and Traffic Activities: Continued coordination of traffic control plans and street closures with city agencies for A130, A141, A145, and A165. Continued coordination of MOS-1 site traffic plan conformance inspections with LADOT. Processed a total of 11 Traffic and Utilities related submittals. Processed 1 Master Agreement invoice.

Surveying Activities: Continued monitoring instrumentation and building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175. Continued location surveys at yards and shop contracts. Performed control survey tie-in of A171 tunnel with A165 station. Continued checking arch form alignment AL tunnel (A171). Checked layout of A165 station.

PROJECT CONTROLS: Processed 22 Change Requests as follows: 8 for A112; 4 for A130; 2 for A135; 1 for A165; 2 for A171; 3 for A175; and 2 for A610/A115. Processed 12 Change Notices as follows: 1 for A130; 1 for A141; 1 for A146; 1 for A165; 1 for A167; 1 for A171; 2 for A175; 1 for A610/A115; 1 for A620; 1 for A630; and 1 for A710. Processed 39 Change Orders as follows: 3 for A135; 8 for A144; 5 for A145/A145A; 1 for A146; 6 for A165; 5 for A171; 3 for A610/A115; 1 for A612; and 2 for A620; 2 for A640; 1 for A745; 1 for A751; and 1 for A753. Processed 49 executed Change Orders through TRACS as follows: 8 for A112; 1 for A130; 2 for A135; 5 for



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A141; 1 for A145/A145A; 4 for A146; 13 for A165; 13 for A175; and 2 for A640. Processed 5 Potential Claims as follows: 4 for A165 and 1 for A610. Processed 15 Change - Technical Evaluations as follows: 6 for A112; 1 for A140; 1 for A144; 1 for A145/A145A; 1 for A146; 1 for A610/A115; 1 for A615; 1 for A650; 1 for A730; and 1 for A735. Processed 2 Force Account Change Packages as follows: 1 for A146; and 1 for A165. Processed 18 Monthly Payment Estimates. Completed close-out reconciliations on 4 Force Account Change Orders as follows: 3 for A145/A145A; and 1 for A165. Reviewed Contractor Monthly Progress Reports. Prepared inputs to RTD Monthly Status Report. Prepared Liquidated Damages Calculation for A187 Contract Milestones. Completed transition from Main Frame TRACS to PC TRACS. Reviewed Contractor Monthly Progress Reports. Prepared scheduling inputs to RTD Quarterly Progress Report. Reviewed and approved A630 Part I Schedule Resubmittal. Approved A630 Part I Schedule Resubmittal. Approved A135 and A171 Part II Schedule Revisions. Review in process for A146 Part II Schedule Revision and A167 Part II Schedule Submittal.

Cost Estimates for Changes and Proposals: A130-CR-032: Completed review and finalized estimate of back-up data for concrete removal in box structure area. A130-CR-015: Began estimate reviews for incoming electric service room changes. A135-CR-004: Continued review of proposals for changes to LAUPT Baggage Handling facilities and attended negotiations. A141-CR-011: Prepared estimate of costs for extended overhead and cost due to delay in receiving access to Union Station land parcels. A141-CR-040: Prepared estimate of costs for changes to incoming electric service room. A145-CR-115: Prepared estimate for changes to incoming electric service room. A175-CR-035: Prepared estimate for changes to incoming electric service room, and attended negotiations. A175: Reviewed contractor proposal, audit reports, etc. and prepared estimates for interface and sewer claim; attended negotiations. A610/115: Prepared additional estimates for alternatives to trackwork installation due to anticipated tunnel access delays. A610/115-CR-017: Prepared estimate of costs for changes to electrical conductor in underground duct banks. A610/115-CR-073: Began estimate for changes to communication duct bank. A620-CR-027: Prepared estimate for Communication & ATC power requirement changes. A710-CR-002, 005, 007: Prepared estimate for miscellaneous elevator changes.

CONTRACTS/PROCUREMENT: Completed evaluation of proposals for follow-on subcontract for temporary personnel services and submitted a request to District for approval to award. Submitted 10 AWP-6 Amendments to Associate Subcontracts and other service subcontracts to District for approval; received approval for 8 and issued the Amendments. Issued Purchase Orders covering maintenance of Xerox machine, maintenance of blueprint machine, and delivery services. Issued Amendment to Construction Photographic Services Subcontract to incorporate Change Orders 2 & 3 and increase funding to cover AWP-5 requirements, and to Laboratory Testing and Inspection Services Subcontract to increase funding to cover AWP-5 requirements. Issued Purchase Order for lease/purchase option procurement of Organic Vapor Analyzer.



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ENGINEERING SERVICES: Initiated the jacking of six (6) A145 test section struts to 50% of design load in lieu of 25% in order to make them more comparable with Civic Center Station, where strut overloads are being investigated. Arranged for the drilling, sampling, testing and analysis of foundation material at the A130 El Monte Busway caisson location to convince Cal-Trans of the adequacy of RTD's design of the Bent 4 underpinning which called for caisson penetration of 10 feet into bedrock. After subsequent evaluation, informed Cal-Trans that RTD accepts their recommended design for the El Monte Busway underpinning, which calls for carrying caissons 30 feet into bedrock. Analyzed and made recommendations to RTD on whether to decrease frequency of observation well monitoring at eight subsurface construction sites in MOS-1. Coordinated with MRTC and Converse Consultants to recommend subsurface investigations for checking validity of claim for excessive rock hardness in A141 AR tunnel. Participated in working sessions with field office personnel and Contractors for Contracts A145 and A165 to resolve numerous design clarification problems. Processed 3 field inquiries with MRTC to obtain clarification of design requirements. Responded to 135 requests for information or documentation clarification from various Contractors. Commenced claims avoidance review of final design for Contract A187 Wilshire/Alvarado Station Stage II.

During this period 226 Contractor submittals were processed as follows:

For Contract 112	- Approved - 4;	Approved-as-Noted - 6;	Rejected - 1;	For Record Only - 1.
For Contract A130	- Approved - 9;	Approved-as-Noted - 9;	Rejected - 1;	
For Contract A135	- Approved - 8;	Approved-as-Noted - 4;	Rejected - 2;	For Record Only - 2.
For Contract A135BH	- Approved - 5;	Approved-as-Noted - 1;	Rejected - 2.	
For Contract A141	- Approved - 3;	Approved-as-Noted - 7;	Rejected - 1;	For Record Only - 3.
For Contract A145	- Approved - 5;	Approved-as-Noted - 12;	Rejected - 1.	
For Contract A146	- Approved - 8;	Approved-as-Noted - 9.		
For Contract A165	- Approved - 41;	Approved-as-Noted - 19;	Rejected - 1;	For Record Only - 1.
For Contract A167	- Approved - 2;	Approved-as-Noted - 1.		
For Contract A171	- Approved - 4;	Approved-as-Noted - 5;	Rejected - 2.	
For Contract A175	- Approved - 5;	Approved-as-Noted - 1.		
For Contract A610/A115	- Approved - 7;	Approved-as-Noted - 1;	Rejected - 4.	
For Contract A612	- Approved - 1;	Approved-as-Noted - 2.		
For Contract A620	- Approved - 9;	Approved-as-Noted - 2;	Rejected - 5;	For Record Only - 1.



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For Contract A630
For Contract A640
For Contract A710
For Contract A740
For Contract A745

- Approved - 1;
-
- Approved-as-Noted - 1.
Approved-as-Noted - 1;
- Approved - 2;
- Approved - 1;

Rejected - 1.
Rejected - 1.

TOTAL

115

81

22

8 = 226

SAFETY/SECURITY: Performed daily site safety, health and security surveillances on a two shift basis and prepared written reports for 10 construction projects. Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service Subcontractors. Reviewed and accepted the A146 Safety Representative Replacement candidate for assignment to the Project.

COMMUNITY RELATIONS - Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141. 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 street closures and lane restrictions, blocked access, noise and accidents. Assisted RTD/GPA in presentation of the July 13th Community Awareness Meeting for 7th/Flower tenants and general public. Provided assistance to PDCD/RTD in coordinating site visits and responding to media requests. Processed 31 inquiries/complaints. Coordinated with A141 Contractor to resolve complaints received from Angelus Plaza residents regarding noise caused by construction ventilation system. Coordinated with A145 in resolving water backflow repairs in the Clark Hotel. Provided assistance to the Roosevelt Building (A165) for additional safety/security measures and improved lighting for the area during evening hours.

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; Cowsedo - Stairs and handrail for A135 Baggage Handling; Angel Steel - Tunnel plate segments and



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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 QA audit of A112 safety certification documentation. Supported RE Acceptance Test activities for Contract A612 - Contact Rail at LB Foster/Transit Products. Initiated review of Project QA Manuals. Conducted QA review of approximately 25 contractor submittals for various contracts.

EQUAL OPPORTUNITY - Monitored Equal Opportunity reporting requirements for 18 contracts. Conducted project site visits/employee interviews at 10 construction sites. Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for 7 Contracts. Attended Initial Construction meeting for A631.

MANPOWER PERFORMANCE

The manpower performance for July is measured against the approved planned staffing for the 6th AWP. During July, the actual staff level was 187 vs. the planned staff level of 182. Therefore, the actual staff count for July was 5 over the planned staffing level. The staff breakdown by company was 127 for the Joint Venture firms and 60 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 July period had 144 available workhours/person. The plan provided for expenditure of 26,208 hours, including "as-required" manhours which would have generated a projected equivalent head count of 182.0 personnel at 144 hours/person. Actual hours expended were 26,258 which translates into a 182.35 equivalent head count at 144 hours/person including temporary personnel, resulting in the equivalent of .35 personnel over the plan.

Cumulative total hours incurred through July were 26,258 against a plan of 26,208 resulting in an over plan variance of 50 hours.



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EQUAL OPPORTUNITY (EO) PERFORMANCE

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

- o Cumulative DBE participation for the Sixth Annual Work Plan through the month, measured against a total cost basis was 22.9%, 2.9% over the goal of 20%. Cumulative DBE participation since contract inception is 22.74%.
- o 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

- o Contractor Submittals - During this period, 244 submittals were received per contract number as follows:
A112 (15), A130 (17), A135 (27), A135BH (8), A141 (15), A145 (22), A146 (19), A165 (54), A167 (22), A171 (10), A175 (15), A610/A115 (7), A612 (2), A615 (0), A616 (4), A620 (7), A630 (3), A640 (3), A710 (1), A732 (0), A740 (2); A745 (1); A750 (0) and A795 (0); of the 244 received this period plus the 235 carryover from June, 226 packages were processed and returned to the contractors; the balance of 253 remain in review.
- o Constructibility Reviews - Completed review of A680/60%, Operational graphics.
- o Claims Avoidance Reviews - Started claims avoidance review of A187, Wilshire/Alvarado Station, Stage II.

COST PERFORMANCE - Sixth Annual Work Plan

- o Total incurred costs of \$1,236,372 for CM Direct Services (excluding General Condition Items) for the period were under the plan of \$1,276,949 by \$40,577. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$18,496 and labor expenditures (total PDCD and subcontractors) being under the plan by \$22,081.
- o The July Estimate At Completion and the cumulative 6th AWP costs for Total CM Services (including General Condition Items) incurred through July, were \$16,871,957 against a plan of \$16,872,967 resulting in an under plan estimate of \$1,010.



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GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$57,400 for the period were under the plan of \$64,692 for the period by \$7,292. This report forecasts an Estimate At Completion (EAC) in the 6th AWP period for GCI's of \$784,008 which is under the plan of \$791,300 by \$7,292.

GENERAL

- o 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.
- o Section VIII, Subcontractor/Consultant Status, includes the final Subcontract Report for the Fifth Annual Work Plan in addition to the first report for July 1989 for the Sixth Annual Work Plan.

Melvin L. Polacek
Construction Manager





SECTION II

MANPOWER PERFORMANCE



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II. MANPOWER PERFORMANCE

This CPR for the month of July 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 July.

During July, personnel assignments/deletions included the addition of 1 Cost Engineer, 1 Electrical Engineer, and 1 Secretary (A-640); and the deletion of 1 Resident Engineer, 1 Safety Engineer, 1 DCM, 1 Field Office Engineer, 1 Geotech Engineer, 1 Subcontract Administrator, 1 QA/QC Manager, 1 Environmental Engineer, 1 Change Control Engineer, 1 Rod/Chain Person, 2 Clerks, 3 Secretaries and 1 Executive Secretary.

For the July period, under the approved 6th AWP, the total planned staffing level (including regular and as-required classifications) is 182. The actual staff (including regular, as-required and temporary classifications) was 187 resulting in 5 over the plan. The current actual staff by company for the July period is as follows:

<u>Company</u>	<u>Staff Level</u>	<u>Company</u>	<u>Staff Level</u>
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	4
Better Personnel Employment Services	8	North Pacific Construction Management	5
Construction Control Services Corporation	18	Ochoa & Sillas	-
Dames & Moore	1	Randolph & Tate Associates	-
D'Leon Consulting	1	Transmetrics	1
Engineering-Science, Inc.	2	Manpower	1
Jacobs Associates	7		187

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 month of July.

The July period had 144 available workhours/person. The plan provided for an expenditure of 26,208 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 182.0 personnel @ 144 hrs/person. Actual hours expended were 26,258 which translates into an equivalent head count of 182.35 @ 144 hrs/person including temporary personnel, resulting in the equivalent of .35 personnel over the plan.



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The hours expended for the period were 26,258 versus a plan of 26,208. The 50 manhours variance for the period is calculated as follows:

.35 equivalent staff over plan @ 144 hours/period in plan =	<u>50 hours</u>
JULY MANHOUR VARIANCE TO PLAN	<u>50 hours</u>

Cumulative total hours for the 6th AWP incurred through July were 26,258 against a plan of 26,208 resulting in an over plan variance of 50 hours (Page 22).



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

Phase II
Construction
Services

Phase II
Construction
Services

Position	Regular/As-required/Temporary			Variance	Regular/As-required/Temporary			Variance
	Planned	Actual			Planned	Actual		
Construction Manager	1	1		0	1	1		0
Manager, Safety and Security	1	1		0	1	1		0
Safety Inspectors	1	1		0	1	1		0
(3) Manager, Quality Assurance	1	1		0	1	1		0
(3) Lead Quality Assurance Engineer	0	0		(1)	0	0		0
QA/QC Engineers/Inspectors	2	2		0	2	2		0
Secretarial/Word Processing/Clerical/ Drafting/Courier	14	14		0	14	14		0
Labor Relations	0	0		0	0	0		0
Legal Counsel	0	0		0	0	0		0
Subtotal	20	20		0	20	20		0
(4) Manager, Administration and Staff Support	1	0		(1)	1	0		(1)
Manager, Project Administration/Accounting	1	1		0	1	1		0
Senior Accountant	1	1		0	1	1		0
Office Manager	2	2		0	2	2		0
Arts Coordinator	1	1		0	1	1		0
Community Relations	0	0		0	0	0		0
Community Relations Coordinator	1	1		0	1	1		0
Manager, EO Administration	1	1		0	1	1		0
EO Administrator	1	1		0	1	1		0
Lead Document Control Specialist	1	1		0	1	1		0
Document Control Specialist	1	1		0	1	1		0
Shop Drawing Coordinator	1	1		0	1	1		0
Data Technician	1	1		0	1	1		0
File Clerk	1	2		1	1	2		1
Subtotal	15	16		1	15	16		1
(4) DCM, Engr. Serv./Proj. Controls	0	0		0	0	0		0
(4) Manager, Proj. Contr./Engr. Serv.	0	0		0	0	0		0
Manager, Project Controls	1	1		0	1	1		0
Technical Data Coordinator	1	1		0	1	1		0
Lead Cost Engineer	1	1		0	1	1		0
Cost Engineers	4	5		1	4	5		1
Lead Change Control	1	1		0	1	1		0
Change Control Specialist	1	1		0	1	1		0
Climate Control Spec.	2	1		(1)	2	1		(1)
Data Technician	1	1		0	1	1		0
Lead Planner/Scheduler	1	1		0	1	1		0
Planner/Schedulers	1	1		0	1	1		0
Lead Estimator	1	1		0	1	1		0
Estimators	1	1		0	1	1		0
Sr. Data Technician	1	1		0	1	1		0
Computer Support	0	0		0	0	0		0
Subtotal	27	26		(1)	27	26		(1)
Manager, Contracts/Procurement	1	1		0	1	1		0
Sr. Contract Administrator	2	1		(1)	2	1		(1)
Subtotal	3	2		(1)	3	2		(1)
DCM, Operations	1	1		0	1	1		0
Manager, General Services	1	1		0	1	1		0
Lead Utilities Engineer	1	1		0	1	1		0
Party Chief	1	1		0	1	1		0
Instrument Person	1	2		1	1	2		1
Rod Person	2	1		(1)	2	1		(1)
Lead Environmental Engineer	1	1		0	1	1		0
Environmental Specialists	3	3		0	3	3		0
Engineering Technician/Coordinator	0	0		0	0	0		0
Resident Engineers	9	9		0	9	9		0
Chief Inspectors	8	8		0	8	8		0
Sr. Inspectors/Inspectors	35	38		3	35	38		3
Office Engineers	12	10		(2)	12	10		(2)
Field Secretaries/Clerical	11	10		(1)	11	10		(1)
Manager, Systemwide Construction	3	3		0	3	3		0
Office Engineer	1	1		0	1	1		0
Resident Engineer	4	4		0	4	4		0
Secretaries/Clerical	0	0		0	0	0		0
Inspector	0	0		0	0	0		0
Data Technicians	1	1		0	1	1		0
Subtotal	99	100		1	99	100		1
Totals	182	187		5	182	187		5

NOTES:

- (1) The "planned" staff count is taken directly from the RTD approved PDCD 6th AMP. It is the planned staff count for the reported month and includes both "Regular" and "As-required" classifications.
- (2) The "Actual" staff count is the total actual staff count by Job Position. Included are regular, as-required and temporary staff.
- (3) 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 Controls/Engineering Services and the position title was changed to Manager, Project Controls/Engineering Services.



LOS ANGELES METRO RED LINE

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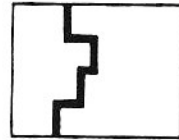
REPORT

SIXTH ANNUAL WORK PLAN

PDCD

PERIOD JULY 1989

EQUIVALENT
MANPOWER

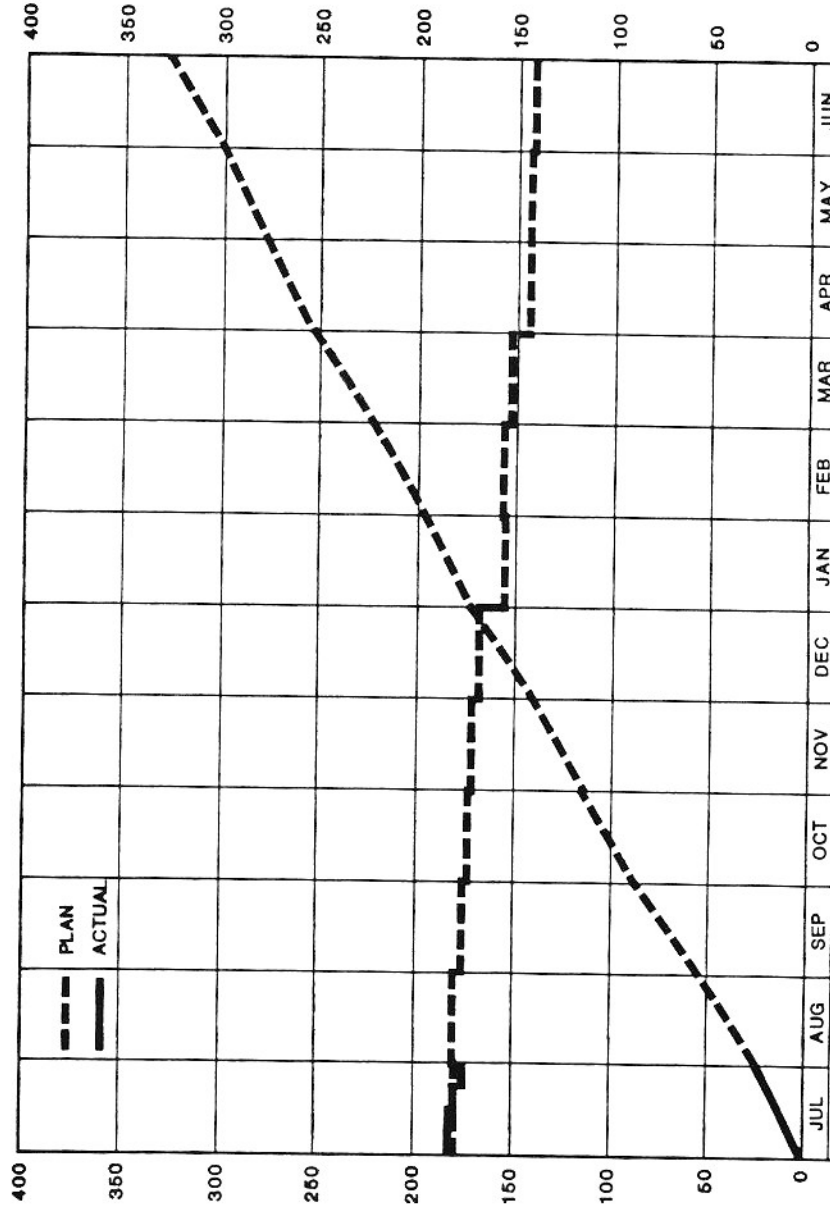


AVERAGE MANPOWER

MANHOUR
(000)



CUM HOURS



HOURS/MO	1988												1990					
	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PLAN	26,208	29,200	34,176	28,000	25,056	32,832	23,864	25,280	31,000	23,568	23,568	28,080						
ACTUAL	26,258																	
HOURS/CUM	26,208	55,408	89,584	117,584	142,640	175,472	199,336	224,616	255,616	279,184	302,752	330,842						
	26,258																	
EQ MANPOWER	182	183	178	175	174	171	167	168	155	147	147	146						
	182																	
AVAILABLE WORK HOURS	144	160	192	160	144	192	162	180	200	180	160	182						

PDCD MANPOWER

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

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SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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1989

1990

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



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

SIXTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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1989

1990

DESCRIPTION (MHS)		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTALS
MANHOURS BY FUNCTIONAL DEPARTMENT														
L PROCUREMENT	PLAN current	432	480	576	320	288	384	274	288	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	0	0	0	0	0	0	0	0	0	0	0	249
	cumulative	249	249	249	249	249	249	249	249	249	249	249	249	
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	0	0	0	0	0	0	0	0	0	0	0	2,913
	cumulative	2,913	2,913	2,913	2,913	2,913	2,913	2,913	2,913	2,913	2,913	2,913	2,913	
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	0	0	0	0	0	0	0	0	0	0	0	248
	cumulative	248	248	248	248	248	248	248	248	248	248	248	248	
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	0	0	0	0	0	0	0	0	0	0	0	200
	cumulative	200	200	200	200	200	200	200	200	200	200	200	200	
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	0	0	0	0	0	0	0	0	0	0	0	338
	cumulative	338	338	338	338	338	338	338	338	338	338	338	338	



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
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PDCD

PERIOD JULY 1989

SIXTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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DESCRIPTION (MHRS)		1989												1990				TOTALS
		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN					
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	0	0	0	0	0	0	0	0	0	0	0	1,581			
		cumulative	1,581	1,581	1,581	1,581	1,581	1,581	1,581	1,581	1,581	1,581	1,581	1,581				
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	0	0	0	0	0	0	0	0	0	0	0	245			
		cumulative	245	245	245	245	245	245	245	245	245	245	245	245				
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	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	0			
	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	0			
TOTAL (HOURS)		PLAN	current	26,208	29,200	34,176	28,000	25,056	32,832	23,864	25,280	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	0	0	0	0	0	0	0	0	0	0	0	26,260			
		cumulative	26,260	26,260	26,260	26,260	26,260	26,260	26,260	26,260	26,260	26,260	26,260	26,260				





SECTION III

EQUAL OPPORTUNITY PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Sixth Annual Work Plan for July measured on the basis of accrued total cost was 22.9, 2.9% above the 20% goal. The cumulative percentage for the Sixth Annual Work Plan was 22.9%, 2.9% above the 20% goal (Figure 1). The cumulative percentage for the total contract from its inception in July 1984 is 22.74%, 2.74% 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%.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

SIXTH ANNUAL WORK PLAN

PDCD

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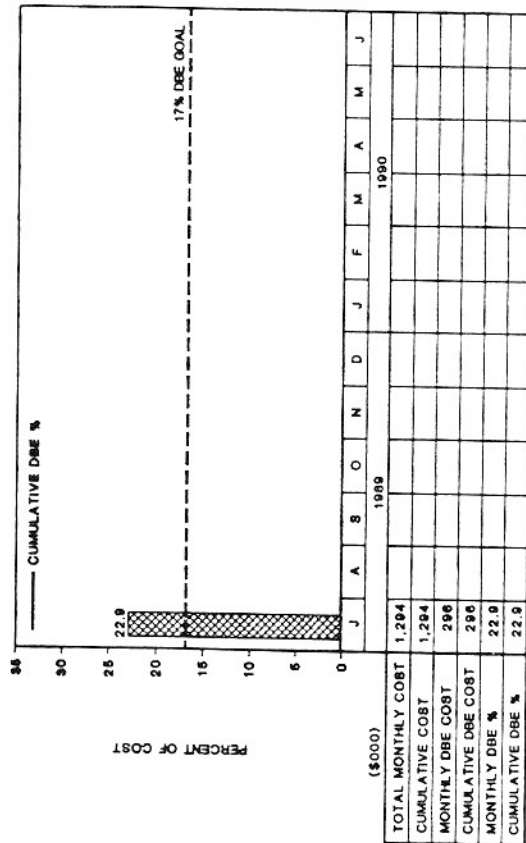


FIGURE 1 - DBE ANALYSIS

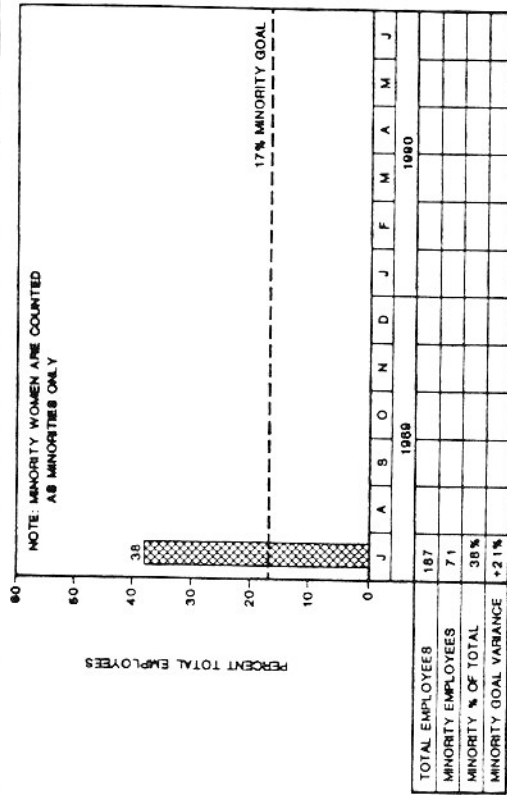


FIGURE 2 - MINORITY AFFIRMATIVE ACTION ANALYSIS

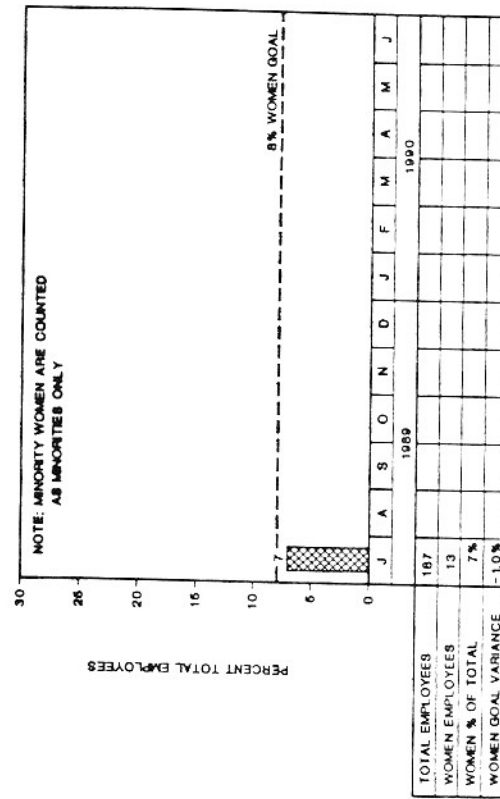


FIGURE 3 - WOMEN AFFIRMATIVE ACTION ANALYSIS

Parsons-Dillingham-De Leuw, Cather



SECTION IV

SCHEDULE PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 244 submittals were received from the Construction Contractors and 235 were carried over from June. 226 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 (253) are still under review.

Contracts	Carryover From June	No. of Submittals Received in July	Submittals Processed Within 30 Days	Submittals Processed In Over 30 Days	Carryover to August
A112 ✓	14	5	9	3	7
A130	28	17	17	2	26
A135	11	27	15	1	22
A135BH	17	8	8	0	17
A141	11	15	11	3	12
A145/A145A	17	22	18	0	21
A146	11	19	14	3	13
A165	70	54	60	2	62
A167	3	22	3	0	22
A171	7	10	11	0	6
A175	7	15	6	0	16
A610/A115	9	7	12	0	4
A612	3	2	3	0	2
A615	0	0	0	0	0
A616	6	4	0	0	10
A620	14	7	8	9	4
A630	2	3	2	0	3
A640	1	3	1	0	3
A710	1	1	1	0	1
A732 ✓	1	0	0	0	1
A740	2	2	3	0	1
A745	0	1	1	0	0
A750	0	0	0	0	0
A795	0	0	0	0	0
Total	235	244	203	23	253



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

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

- o Constructibility Reviews - Completed constructibility review of A680/60%, Operational Graphics.
- o Claims Avoidance Review - Started a Claims Avoidance Review of A187, Wilshire/Alvarado Station, Stage II.

Training Programs - The following training programs for PDCD personnel were underway during the July period:

- o American Concrete Institute Inspector Qualification Training - Certified training and testing for 15 PDCD Field Office Inspectors to perform inspection and testing of concrete.
- o Conducted a two-day course on underground safety training for 65 field personnel.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

POCD

PERIOD JULY 1989

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD 7-1-89 TO 7-28-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	DWGS	CAR		07-20-89	08-01-89 *			*RESCHEDULED TO WEEK OF 8-14-89 BY POCD
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	SPEC	CAR		07-20-89	08-01-89 *			*RESCHEDULED TO WEEK OF 8-14-89 BY POCD
**									
A-680	OPERATIONAL GRAPHICS	DWGS	IP60%	07-06-89	07-06-89	07-21-89	07-21-89		NOT REVIEWED BY POCD (SCLTD IN-HOUSE REVIEW)
A-680	OPERATIONAL GRAPHICS	SPEC	IP60%	07-06-89	07-06-89	07-21-89	07-21-89		NOT REVIEWED BY POCD (SCLTD IN-HOUSE REVIEW)
**									

4 records listed. 4 values listed.

Review Codes : LT60 - Less than 60%
PF90 - Prefinal 90%
CAR - Claims Avoidance Review
NOTE : Based on 8-1, MRTD Design Review Schedule

IF60 - In progress 60%
FS100 - Final submittal 100%
CE - Check Estimate

PF85 - Prefinal 85%
DC100 - Final design complete 100%



SECTION V

COST PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

V. COST PERFORMANCE

SIXTH ANNUAL WORK PLAN

Total incurred costs of \$1,236,372 (Page 25) for CM Direct Services (without General Condition Items) for the period were under the plan of \$1,276,949 by \$40,577. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$18,496 and Labor expenditures (total PDCD and subcontractors) being under the plan by \$22,081.

The estimate at completion for the month of July and the 6th AWP cumulative costs for Total CM Services (including General Condition Items) incurred through July, were \$16,871,957 against a plan of \$16,872,967 resulting in an underplan expenditure of \$1,010 (Page 25). Extracting the General Condition Items and reporting them separately, the July CPR forecasts a CM Direct Services estimate at completion of \$16,087,949 versus a plan of \$16,081,667 for an over plan expenditure of \$6,282.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$57,400 were under the plan of \$64,692 for the period by \$7,292. This report forecasts an estimate at completion (EAC) in the 6th AWP period for GCI's of \$784,008 versus a plan of \$791,300, for a projected underplan expenditure of \$7,292. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$43.67/hr. compared to a plan rate of \$44.60 (-)/hr., resulted in a difference of \$0.93 per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE	IMPACT ON JULY COSTS
.347 equivalent staff under plan @ 144 hours at \$44.60/hour =	\$ (2,229)



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD JULY 1989

RATE VARIANCE

182.35 actual staff equivalent @ 144 hours
@ \$.09258/hour =

24,310

JULY COST VARIANCE TO PLAN

\$ 22,081

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of \$18,496 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS		
	BUDGET	ACTUAL	VARIANCE	BUDGET	ACTUAL	VARIANCE
(1)Field Office Expenses	55,300	48,298	-7,002	55,300	48,298	-7,002
(2)Office Equipment	3,725	4,000	275	3,725	4,000	275
(3)Travel & Relocation	18,142	6,650	-11,492	18,142	6,650	-11,492
(4)Vehicles & Maintenance	4,900	5,000	100	4,900	5,000	100
(5)Reproduction	6,050	5,000	-1,050	6,050	5,000	-1,050
(6)Telephone & Telex	5,950	5,724	-226	5,950	5,724	-226
(7)Computer Operation Support	2,292	3,000	708	2,292	3,000	708
(8)Gross Receipt Tax	7,834	7,000	-834	7,834	7,000	-834
(9)Field Equipment	3,975	5,000	1,025	3,975	5,000	1,025
S/T ODC's	108,168	89,672	-18,496	108,168	89,672	-18,496

NOTES

- (1) Field Office Expenses - underexpenditure due to underrun in equipment maintenance and supplies.
- (2) Office Equipment - overexpenditure due higher than planned expenditures.
- (3) Travel and Relocation - underexpenditure due to lower than planned expenditures.
- (4) Vehicles & Maintenance - overexpenditure due to higher 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 - overexpenditure due to higher than normal DMCS costs.
- (8) Gross Receipt Tax - varies directly with the actual cumulative rate of expenditure per period.
- (9) Field Equipment - overexpenditure due to higher than planned expenditures.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

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

	PLANNED	ACTUAL	VARIANCE	%
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH JUNE CURRENT MONTH	\$ 0 759	\$ 0 756	\$ (11)	0.00% -1.43%
CUMULATIVE THROUGH JULY	\$ 759	\$ 758	\$ (11)	-1.43%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH JUNE CURRENT MONTH	\$ 0 108	\$ 0 90	\$ (18)	0.00% -16.67%
CUMULATIVE THROUGH JULY	\$ 108	\$ 90	\$ (18)	-16.67%
SUBCONTRACTORS				
CUMULATIVE THROUGH JUNE CURRENT MONTH	\$ 0 400	\$ 0 398	\$ (12)	0.00% -3.00%
CUMULATIVE THROUGH JULY	\$ 400	\$ 388	\$ (12)	-3.00%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH JUNE CURRENT MONTH	\$ 0 1,277	\$ 0 1,236	\$ (41)	0.00% -3.21%
CUMULATIVE THROUGH JULY	\$ 1,277	\$ 1,236	\$ (41)	-3.21%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH JUNE CURRENT MONTH	\$ 0 65	\$ 0 58	\$ (7)	0.00% -10.77%
CUMULATIVE THROUGH JULY	\$ 65	\$ 58	\$ (7)	-10.77%
TOTAL CM SERVICES				
CUMULATIVE THROUGH JUNE CURRENT MONTH	\$ 0 1,342	\$ 0 1,294	\$ (48)	0.00% -3.58%
CUMULATIVE THROUGH JULY	\$ 1,342	\$ 1,294	\$ (48)	-3.58%
HOURS				
CUMULATIVE THROUGH JUNE CURRENT MONTH	0 hrs 26,208	0 hrs 26,258	0 hrs 50	0.00% 0.19%
CUMULATIVE THROUGH JULY	0 hrs 26,208	0 hrs 26,258	0 hrs 50	0.19%

* OFF BY ONE DUE TO ROUNDING

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

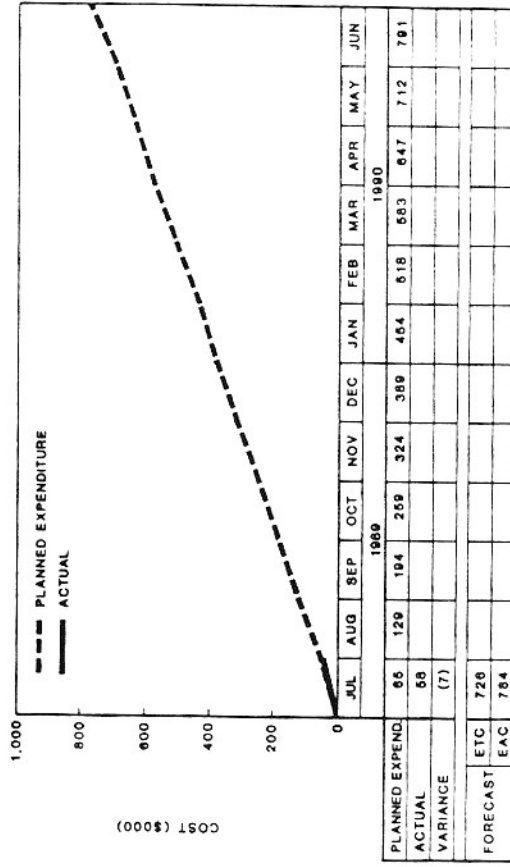
CONTRACT PERFORMANCE

REPORT

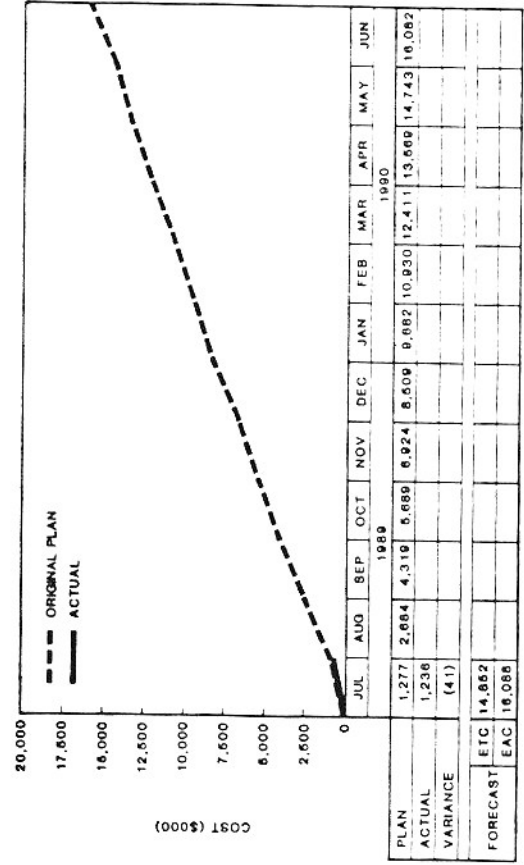
SIXTH ANNUAL WORK PLAN

PDCD

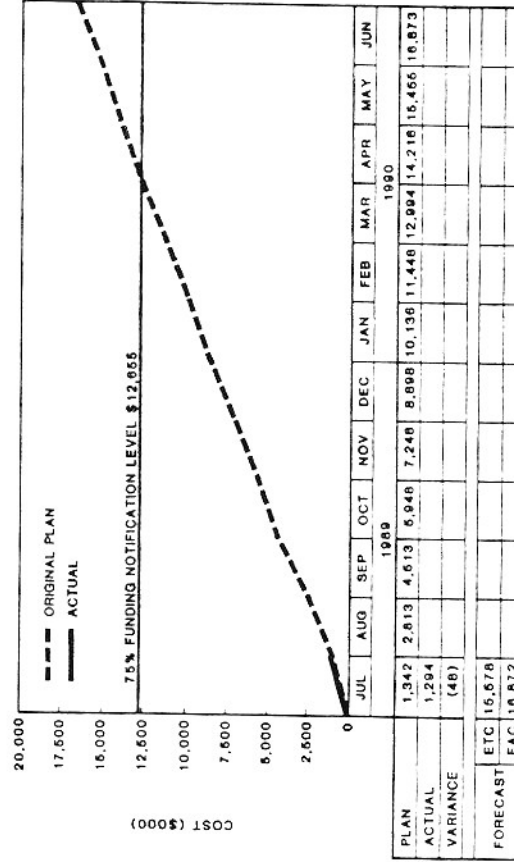
PERIOD JULY 1989



GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



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



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PERIOD JULY 1989

**PDCD CM SERVICES - 6TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING JUL 28, 1989
REPORT SUMMARIZED BY RESPONSIBILITY**

CONSTRUCTION GENERAL CONDITION ITEMS

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS		ESTIMATE TO COMPL	AT COMPLETION DOLLARS	
	BUDGET	ACTUAL	BUDGET	ACTUAL		BUDGET	ESTIMATE
A RODENT & PEST CONTROL	0	0	0	0	5,000	5,000	0
B GUARD SERVICES	6,000	6,000	6,000	6,000	72,000	72,000	0
E CLEAN-UP OF FIELD SITES	2,000	1,400	2,000	1,400	24,000	23,400	-600
G SIGNS AND BARRICADES	0	0	0	0	10,000	10,000	0
X CONSTRUCTION PHOTO	4,000	5,000	4,000	5,000	48,000	49,000	1,000
* Y TESTING PROGRAM	52,692	45,000	52,692	45,000	632,300	624,608	-7,692
S/T GEN. COND. ITEMS	64,692	57,400	64,692	57,400	791,300	784,008	-7,292

* INCLUDES COSTS FOR DRILLING OPERATION AT A130 FOR TEST BORING (UNBUDGETED).



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

PDCD CM SERVICES - 6TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING JUL 28, 1989 REPORT SUMMARIZED BY RESPONSIBILITY

CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VAR.	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE	ESTIMATE TO COMPL.	RUBET	ESTIMATE	VARIANCE
A PROJECT MANAGEMENT	72,340	80,478	8,138	72,340	80,478	8,138	970,636	968,491	1,011,114	42,623
C FAC. CONSTRUCTION	431,217	437,704	6,487	431,217	437,704	6,487	4,690,826	5,113,259	5,128,530	15,271
E SYSTEMWIDE CONST	70,956	61,024	-9,932	70,956	61,024	-9,932	1,042,879	1,147,194	1,102,902	-43,291
F GENERAL SERVICES	63,462	67,116	3,654	63,462	67,116	3,654	717,511	772,363	780,627	8,264
K PROJECT CONTROLS	191,825	165,883	-25,942	191,825	165,883	-25,942	2,241,699	2,471,628	2,407,582	-64,046
L PROCUREMENT	20,565	12,471	-8,144	20,565	12,471	-8,144	173,112	208,485	185,533	-22,952
* M ENG. SVCS./SYST. INTEGR.	129,687	153,558	23,871	129,687	153,558	23,871	1,777,717	1,823,139	1,881,275	58,136
N COMMUNITY RELATIONS	12,393	10,282	-2,111	12,393	10,282	-2,111	128,224	140,616	138,506	-2,110
P SAFETY	14,535	9,940	-4,595	14,535	9,940	-4,595	178,623	192,155	188,562	-4,596
Q QUALITY ASSURANCE	23,518	16,081	-7,437	23,518	16,081	-7,437	237,441	260,163	253,522	-6,641
R PROJECT ADMIN.	40,092	40,019	-73	40,092	40,019	-73	555,451	549,161	595,470	46,309
S EQUAL OPPORTUNITY	12,092	9,902	-2,190	12,092	9,902	-2,190	71,207	83,298	81,109	-2,189
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	1,082,682	1,064,408	-18,274	1,082,682	1,064,408	-18,274	12,789,039	13,828,669	13,853,447	24,778
1 FIELD OFFICE EXPENSES	55,300	48,298	-7,002	55,300	48,298	-7,002	608,300	565,600	658,598	93,002
2 OFFICE EQUIPMENT	3,725	4,000	275	3,725	4,000	275	40,975	44,700	44,975	275
3 TRAVEL & RELOCATION	18,142	6,650	-11,492	18,142	6,650	-11,492	199,558	217,700	206,208	-11,492
4 VEHICLES & MAINT.	4,900	5,000	100	4,900	5,000	100	77,900	82,800	82,900	100
5 REPRODUCTION	6,050	5,000	-1,050	6,050	5,000	-1,050	68,550	72,600	71,550	-1,050
7 TELEPHONE & TELEX	5,950	5,724	-226	5,950	5,724	-226	65,450	71,400	71,174	-226
8 COMPUTER OPERATION SUPPT.	2,292	3,000	708	2,292	3,000	708	25,208	27,500	28,208	708
9 GROSS RECEIPT TAX	7,834	7,000	-834	7,834	7,000	-834	86,166	94,000	93,166	-834
A FIELD EQUIPMENT	3,975	5,000	1,025	3,975	5,000	1,025	43,725	47,700	48,725	1,025
S/T ODC'S	108,168	89,672	-18,496	108,168	89,672	-18,496	1,213,832	1,222,000	1,303,504	80,504
W PDCD FEE	57,500	57,500	0	57,500	57,500	0	517,500	575,000	575,000	0
X S/C FEE	28,599	24,792	-3,807	28,599	24,792	-3,807	331,206	355,998	355,998	0
S/T FEES	86,099	82,292	-3,807	86,099	82,292	-3,807	848,706	930,998	930,998	0
S/T CM DIRECT SVCS	1,276,949	1,236,372	-40,577	1,276,949	1,236,372	-40,577	14,851,577	16,081,667	16,087,949	6,282
S/T GEN. COND. ITEMS	64,692	57,400	-7,292	64,692	57,400	-7,292	726,608	791,300	784,008	-7,292
TOTAL CM SERVICES	1,341,641	1,293,772	-47,869	1,341,641	1,293,772	-47,869	15,578,185	16,872,967	16,871,957	-1,010
PERCENT OF BUDGET EXPENDED =	82									
NEGATIVE VARIANCE INDICATES UNDERRUN										

* INCLUDES COSTS FOR DRILLING OPERATION AT A130 FOR TEST BORING (UNBUDGETED).

Parsons-Dillingham-De Leuw, Cather

SECTION VI

ADDITIONAL ACTIVITIES

PERFORMED IN JULY



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VI. ADDITIONAL ACTIVITIES PERFORMED IN JULY

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 fabricationat:
 - o Paramount - escalator structural frames fro 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 Cowseido - Stairs and handrail for A135 Baggage Handling.
 - o Angel 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 QA audit of A112 safety certification documentation.



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- (6) Supported RE Acceptance Test activities for Contract A612 - Contact Rail at LB Foster/Transit Products.
- (7) Initiated review of Project QA Manuals.
- (8) Conducted QA review of approximately 225 contractor submittals for various contracts.

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, A175 and A610/A115.
- (3) Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for Contracts A112, A130, A135, A141, A145, A165 and A610/A115.
- (4) Attended Initial Construction Meeting for Contract No. A631.

D. Contracts and Procurement

- (1) Completed evaluation of proposals for follow-on Subcontract for temporary personnel services and submitted a request to District for approval to award.
- (2) Submitted 10 AWP-6 Amendments to Associate Subcontracts and other service subcontracts to District for approval, received approval for 8 and issued the amendments.
- (3) Issued Purchase Orders covering maintenance of Xerox machine, maintenance of blueprint machine, and delivery services.
- (4) Issued Amendment to Construction Photographic Services Subcontract to incorporate Change Orders 2 & 3 and increase funding to cover AWP-5 requirements and to Laboratory Testing and Inspection Services Subcontract to increase funding to cover AWP-5 requirements.
- (5) Issued Purchase Order for lease/purchase option procurement of Organic Vapor Analyzer.

E. Community Relations

- (1) Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141.



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- (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 street closures and lane restrictions, blocked access, noise and accidents.
- (4) Assisted RTD/GPA in presentation of the July 13th Community Awareness Meeting for 7th/Flower tenants and the general community.
- (5) Provided assistance to PDCD/RTD in coordinating site visits and responding to media requests.
- (6) Processed 31 inquiries/complaints.
- (7) Coordinated with A141 Contractor to resolve complaints received from Angeles Plaza residents regarding noise caused by construction ventilation system.
- (8) Coordinated with A145 in resolving water backflow repairs in the Clark Hotel.
- (9) Provided assistance to the Roosevelt Building (A165) for additional safety/security measures and improved lighting for the area during evening hours.

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 projects.
- (2) Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service subcontractors.
- (3) Review and accept the A146 Safety Representative candidate.

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, and A165.
- (3) Continued coordination of MOS-1 inspections with LADOT.
- (4) Processed a total of 11 Traffic and Utilities related submittals.
- (5) Processed 1 Master Agreement invoice.



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- (6) Continued monitoring of groundwater and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
- (7) Continued monitoring Discharge Monitoring Stations at the Ballona Creek and Los Angeles River.
- (8) Prepared and submitted June Discharge Monitoring Report (DMR) to the California Regional Water Quality Board (CRWQCB).
- (9) Prepared and submitted June LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (10) Conducted contamination evaluation of soil samples from A130 chemical grout borings.
- (11) Prepared assessment report for contaminated soil re-use at A130.
- (12) Prepared and submitted Biotoxicity Report to the California Regional Water Quality Control Board.
- (13) Continued checking contractor's control points and layout.
- (14) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175.
- (15) Continued location survey at shop and yards contracts.
- (16) Continued checking arch form alignment AR tunnel (A171).
- (17) Checked layout of A165 station.
- (18) Performed control survey tie-in of A171 AL tunnel with A165 station.

H. Engineering Services

- (1) Initiated the jacking of the six (6) A145 test Section struts to 50% of design load in lieu of 25% in order to make them more comparable with Civic Center Station, where strut overloads are being investigated.
- (2) Arranged for the drilling, sampling, testing and analysis of foundation material at the A130 El Monte Busway caisson location to convince CalTrans of the adequacy of RTD's design of the Bent 4 underpinning, which called for caisson penetration of 10 feet into bedrock.
- (3) After subsequent evaluation, informed CalTrans that RTD accepts their recommended design for the El Monte Busway underpinning, which calls for carrying caissons 30 feet into bedrock.
- (4) Analyzed and made recommendations to RTD on whether to decrease frequency of observation well monitoring at eight subsurface construction sites in M0S-1.
- (5) Coordinated with MRTC and Converse consultants to recommend subsurface investigations for checking validity of claim for excessive rock hardness in A141 AR tunnel.
- (6) Participated in working sessions with field office personnel and Contractors for Contracts A145 and A165 to resolve numerous design clarification problems.



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- (7) Processed 3 field inquiries with MRTC to obtain clarification of design requirements.
- (8) Responded to 135 requests for information or documentation clarification from various Contractors.
- (9) Commenced claims avoidance review of Contract A187 Wilshire/Alvarado Station Stage II, final design.
- (10) For Contract A112 - Approved 4 Contractor submittals for sump pumps and water heater, HVAC drawings and cover sheets, 0 and M manuals for elevators, and blank warranty and guarantee forms.
- Approved-as-Noted 6 Contract submittals for O and M manual for fire protection, Traction Power System, mechanical items, and electrical test procedures.
- Rejected 1 Contractor submittal for a monthly progress report.
- Reviewed For Record Only 1 Contractor submittal for a grate for steam cleaning pits.
- (11) For Contract A130 - Approved 9 Contractor submittals for rigid conduit pipe bends, nipples and couplings; shoring design for a cell box, rebar mill certificates for slurry wall panels and box roof slab, installation of load cells and strain gauges, and concrete bonding agent.
- Approved-as-Noted 9 Contractor submittal for modification of slurry wall panels, lift drawing at Union Station east crossover, motor control centers, traction power substation, transfer beam Bent #4 rebar detailing, and underpinning welding procedure for used pier casing.
- Rejected 1 Contractor submittal for welding procedure for bent 4 caissons.
- (12) For Contract A135 - Approved 8 Contractor submittals for temporary railroad bridge, haul route proposal, cement certification for tieback anchor grout, slurry wall rebar certificates, welders certification, and tieback anchor tests.
- Approved-as-Noted 4 Contractor submittals for 34.5 KV cableway, Union Station structural details, monthly schedule/narrative report, and Contractor staging and fencing areas.
- Rejected 2 Contractor submittals for welding procedures, and preliminary anchor test report.
- Reviewed For Record Only 2 Contractor submittals for tieback anchor performance test, and installation of load cells.



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- (13) For Contract A135 BH (Baggage Handling) - Approved 5 Contractor submittals for electrical materials HVAC layout at street level, panel board/circuit breakers and roofing details.

Approved-as-Noted 1 Contractor submittal for transformers and panel boards.

Rejected 2 Contractor submittals for street level toilet details, and ceiling layout and details.

- (14) For Contract A141 - Approved 3 Contractor submittals for cast-in-place concrete lift drawings, rebar certificates, mill test reports and delivery receipts.

Approved-as-Noted 7 Contractor submittals for excavation support design study for northeast entrance, cast-in-place concrete lift drawings, formwork for station reshores, fresh air intake shaft shoring design study and plans, and cast-in-place concrete tie and non-metallic floor hardener tech data.

Rejected 1 Contractor submittal for excavation support system design.

Reviewed For Record Only 3 Contractor submittals for monthly status and narrative reports.

- (15) For Contract A145 - Approved 5 Contractor submittals for concrete mix design, geotextile fabric, welder qualifications, rebar drawings and grade beam details and mezzanine falsework and forms.

Approved-as-Noted 12 Contractor submittals for exterior wall form at mezzanine level, earthquake analysis of piles, south end wall forms, rebar drawings and beam details, various invert lift drawings, north end wall forms at invert slab level, column forms and south bulkhead staging for telephone duct relocation.

Rejected 1 Contractor submittal for welding qualifications.

- (16) For Contract A146 - Approved 6 Contractor submittals for Pershing Square Garage restoration, wet standpipe cross passage, traffic control plans for work areas 21 to 24/27, welding procedure and welder qualification test, and air handling apparatus-belt driven blowers and catalog data.



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Approved-as-Noted 9 Contractor submittals for AL tunnel ventilation and vendor data, dewatering and site utilities, PSG restoration, traffic control plan work areas 24/27, invert lift drawings, mech/elec. arrangement at cross passages and sump station, sump pump station piping, ladder and grating, and wall and arch lift and reinforcement drawings.

(17) For Contract A165 - Approved 41 Contractor submittals for exterior wall lift drawings, base slab lift drawings, rebar drawings interior walls, west bulkhead details, C.C.T.V. mounting detail, calculations for removal of "C" level strut Cs-34, welding procedures, qualifications and miscellaneous fittings and accessories, rebar drawings for exterior walls, rebar drawings for base slab, and rebar drawings for knockout panel.

Approved-as-Noted 19 Contractor submittals for base slab lift drawings, exterior wall lift drawings, fire protection/chilled water materials and accessories, temporary support design calculations for existing ITT generators in Roosevelt Building basement, rebar drawings for roof slab, rebar drawings for exterior walls, rebar drawings for base slab, rebar drawings for interior walls, and LRT platform/MRT mezzanine slab.

Rejected 1 Contractor submittal for schedule narrative and update plot.

Reviewed For Record Only 1 Contractor submittal for north wall center wall details.

(18) For Contract A165 - Approved 2 Contractor submittals for CPM schedule, and product data and flooring samples.

Approved-as-Noted 1 Contractor submittal for plumbing data.

(19) For Contract A171 - Approved 4 Contractor submittals for tunnel lighting fixture type x conduit, conduit identification tags and catalog data, AR walkway lift drawings, and walkway rebar drawings.

Approved-as-Noted 5 Contractor submittals for sump pump control, invert repair work, sump station discharge piping, wet standpipe layout, and lighting fixture certification.

Rejected 2 Contractor submittals for monthly status and progress report, and miscellaneous metal work.



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- (20) For Contract A175 - Approved 5 Contractor submittals for rebar drawings, temporary ventilation and schematic/diagrammatic drawings, and mix design for 5000 PSI concrete/cast-in-place.
Approved-as-Noted 1 Contractor submittal for level 2 shoring layout.
- (21) For Contract A610/A115 - Approved 7 Contractor submittals for railbound manganese steel end crossing drawing, catalog cuts for wire and cable, catalog cuts for circuit breaker panels and transformer, testing procedure for measuring Earth resistance, monthly status reports, CPM update drawing, and heavy car cleaning platform lighting conduit.
Approved-as-Noted 1 Contractor submittal for pump data and catalog cuts.
Rejected 4 Contractor submittals for ballasted crossing details, railbound manganese steel center crossing frog, and hydraulic bumping post.
- (22) For Contract A612 - Approved 1 Contractor submittal for welders pre-qualifying procedure.
Approved-as-Noted 2 Contractors submittals for support insulator test procedures, and anchor strain insulator test.
- (23) For Contract A620 - Approved 9 Contractor submittals for Barchart Schedule and Narrative Maintainability analysis, System Safety Program plan, exterior cable Specification data, factory inspection and test procedure for speed frater switch machines, yard FDR Book of Plans update, factory test procedures, and track circuit qualifications test reports.
Approved-as-Noted 2 Contractor submittals for yard track and cable plan, and QA plan (Installation Contractor).
Rejected 5 Contractor submittals for junction box installation drawings, impedance bond installation drawing, wayside signal installation drawing, and switch machine layout installation drawings.



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Review for Record Only 1 Contractor submittal for Train Control reliability allocation.

(24) For Contract A630 - Approved 1 Contractor submittal for monthly schedule/narrative, dates and barcharts reports.

Rejected 1 Contractor submittal for 750 VDC switchgear.

(25) For Contract A640 - Rejected 1 Contractor submittal for CTS block diagram.

Approved-as-Noted 1 Contractor submittal for monthly narrative and schedule.

(26) For Contract A710 - Approved-as-Noted 1 Contractor submittal for monthly narrative schedule.

(27) For Contract A740 - Approved 2 Contractor submittals for sound attenuator drawings and test report.

Approved-as-Noted 1 Contractor submittal for monthly report and schedule.

(28) For Contract A745 - Approved 1 Contract submittal for monthly report and schedule.

1. PROJECT CONTROLS

- (1) Processed Change Requests: A112-CR-112, A112-CR-125, A112-CR-126, A112-CR-127, A112-CR-128, A112-CR-129, A112-CR-130, A112-CR-131, A130-CR-032, A130-CR-034, A130-CR-035, A130-CR-036, A135-CR-028A, A135-CR-035, A165-CR-084, A171-CR-008, A171-CR-027, A175-CR-049, A175-CR-050, A175-CR-051, A610/115-CR-073, and A610/115-CR-075.
- (2) Processed Change Notices: A130-CN-020, A141-CN-074, A146-CN-011, A165-CN-036, A167-CN-003, A171-CN-014, A175-CN-029, A175-CN-031, A610/115-CN-034, A620-CN-026, A630-CN-001, and A710-CN-001.
- (3) Processed Change Orders: A135-CO-022, A135-CO-024, A135-CO-025, A144-CO-001, A144-CO-002, A144-CO-011, A144-CO-013, A144-CO-013PTII, A144-CO-015, A144-CO-016, A144-CO-017, A145/145A-CO-047A, A145/145A-CO-089, A145/145A-CO-090, A145/145A-CO-092, A145/145A-CO-093, A146-CO-016B, A165-CO-017B, A165-CO-017C, A165-CO-028A, A165-CO-032C, A165-CO-044, A165-CO-045, A171-CO-031, A171-CO-032, A171-CO-033, A171-CO-034, A171-CO-035, A610/115-CO-050, A610/115-CO-053, A610/115-CO-056PTI, A612-CO-001, A620-CO-009, A620-CO-010, A640-CO-004, A640-CO-005, A745-CO-001, A751-CO-008, and A753-CO-002.



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- (4) Processed through TRACS, executed Change Orders: A112-CO-046A, A112-CO-047A, A112-CO-049, A130-CO-023, A135-CO-022A, A135-CO-022, A141-CO-010M1, A141-CO-010N2, A141-CO-026A, A141-CO-047, A145-CO-088, A146-CO-025, A165-CO-011, A165-CO-017B, A165-CO-026, A165-CO-027A, A165-CO-034, A165-CO-035, A165-CO-036, A165-CO-037, A165-CO-038, A165-CO-039, A165-CO-040, A165-CO-041, A165-CO-043, A640-CO-002, A175-CO-003B, A175-CO-004A, A175-CO-007A, A175-CO-010A, A175-CO-014A, A175-CO-015A, A175-CO-0168, A175-CO-024A, A175-CO-028, A175-CO-031, A175-CO-032, A175-CO-033, A175-CO-034, A112-CO-048A, A112-CO-052, A112-CO-052A, A112-CO-053A, A141-CO-010G3, A146-CO-0168, A146-CO-021A, A146-CO-021B, and A640-CO-003.
- (5) Processed Potential Claims: A165-PC-004, A165-PC-034, A165-PC-070, A165-PC-098, and A610-PC-039.
- (6) Processed Change Technical Evaluations: A112-CR-123, A112-CR-125, A112-CR-126, A112-CR-127, A112-CR-129, A112-CR-130, A140-CR-031, A144-CR-026, A145-145A-CR-146, A146-CR-074, A146-CR-073, A145-CR-002, A650-CR-012, A730-CR-001, and A735-CR-001.
- (7) Processed Force Account Change Packages: A146-CO-009, and A165-CO-025A.
- (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 4 Force Account Change Orders: A145-CO-028, A145-CO-028A, A145-CO-067, and A165-CO-038.
- (10) Prepared Liquidated Damages Calculation for A187 Contract Milestones.
- (11) Completed transition from Main Frame TRACS to PC TRACS.
- (12) Reviewed Contractor Monthly Progress Reports.
- (13) Prepared scheduling inputs to RTD Quarterly Progress Report.
- (14) Reviewed A167 Part II Schedule Submittal.
- (15) Reviewed and approved A630 Part I Schedule Resubmittal.
- (16) Approved A630 Part I Schedule Resubmittal.
- (17) Approved A135 and A171 Part II Schedule Revisions.
- (18) Review in process for A146 Part II Schedule Revision.
- (19) A130-CR-032 Completed review of back-up data for concrete residual, finalized estimate.
- (20) A130-CR-015 Prepared estimate for 8" fire protection line rearrangement.
- (21) A130-CR-031 Began estimate reviews for incoming electric service room changes.
- (22) A135-CR-004 Continued review of proposals for changes LAUPT Baggage Handling facilities and attended negotiations.



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- (23) A141-CR-011 Prepared estimate of costs for extended overhead and cost due to delay in receiving access to Union Station land parcels.
- (24) A141-CR-040 Prepared estimate of costs for changes to incoming electric service room.
- (25) A145-CR-115 Prepared estimate for changes to incoming electric service room.
- (26) A175-CR-035 Prepared estimate for changes to incoming electric service room, and attended negotiations.
- (27) A175 Reviewed contractor proposal, audit reports, etc. and prepared estimates for interface and sewer claim. Attend negotiations.
- (28) A610/A115 Prepared additional estimates for alternatives to trackwork installation due to anticipated tunnel access delays.
- (29) A610/115 CR-017 Prepared estimate of costs for changes to electrical conductor in underground duct banks.
- (30) A610/A115-CR-073 Began estimate for changes to communication duct bank.
- (31) A620-CR-027 Prepared estimate for Communication & ATC power requirement changes.
- (32) A710-CR-002, 005, 007 Prepared estimate for miscellaneous elevator changes.

J. CM Meetings in July 1989

<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
July 5	RTD, MRTC, LACoSD, BAH RTD Police	General Project Security including operations.
July 5	RTD, MRTC, LACoFD, LAFD, BAH	General Project Safety including operations.
July 5, 12, 19, 26	RTD	Claims Review Board Meeting
July 5, 11, 18	RTD/TSP	A175- Interface Claim Review scope of work and related costs.



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July 6	RTC/TSP/Subcontractor	A135-CR-004 LAUPT Baggage Handling, Review changes and proposals, steel.
July 6, 12, 17	Granite/Orecon	A165 welding of support columns
July 7	CEC	A610 NDT subcontractor
July 10	TSP/Stockton Tri-Industries	A135 Vehicle and Railroad Bridge
July 10	LB Foster	A612 witness test for contact rail
July 10	TSP/Owl Crane	A135 Railroad Bridge Erection
July 10	Angelus Plaza Residents	Noise Concerns (A141)
July 10	RTD	A175- Interface claim, review scope of work and RTD position.
July 10, 17, 24	RTD	Change Control Board Meeting
July 10, 20, 21	MRTC, Caltrans, RTD	A130 Bent No. 4 Underpinning
July 21, 24	RTD, MRTC, Converse	A141 Hard Rock Investigation
July 12, 28	Contractors, DIA, RTD, Argonaut, LAFD	Project Safety Review



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July 12, 14	RTD	A141-CR-011 Review contractor proposal and audit report, access delay to Union Station parcel.
July 13	AGCC, Contractors, Insurance Companies/ Brokers, LADWP-W/P	Current Safety Legislation (Pending) Review New Safety Laws (State/Fed) General Safety
July 13	RTD/GPA	Safety/Security Issues (A165)
July 13	LADOT	A141 Access Shafts for Concrete A15/C117 Flower St. Detour Switch
July 18	Booz Allen-Hamilton	Safety Certificate Plan
July 20	RTD	A710-CR-002, 005 & 007 Review scope of work and RTD position on hydraulic elevator change.
July 21	TSP	A130 Caisson Welding Procedure
July 21	Roosevelt Bldg.	Safety/Security Issues (A165)
July 21	RTD/Montgomery	A710-CR-002, 005 & 007 Negotiations settlement of changes.
July 21	Walsh/Mech.Sub	A112 HVAC Controls ✓
July 24	LADOT	A130 Traffic Detour



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July 24	RTD, MRTC	A146 Unstable Ground Investigation
July 25	Roosevelt Bldg.	Security Issues (A165)
July 25	RTD/TSP/Elec.Sub	A175-CR-035 Review scope of work and quantities for changes to incoming electrical service room in preparation for negotiations.
July 26	RTD	Safety Certification Review Team
July 26	RTD/GFA	A145-CR-100, 122, 123 & 129 Negotiations
July 26	PC	Staff Meeting
July 27	RTD/Shank	A146 Review tunnel equipment costs for force account work.
July 27	RTD	A175 Interface claim review audit report and estimated costs.
July 27	MRTC	A167 Mechanical Interfaces
July 27	Tutor Saliba	A141 Shield Interface at A145 Bulkhead
July 28	RTD	A141-CRE-011 Review standby equipment rates for access delay Union Station parcel.

SECTION VII

SUMMARY OF ACTIVITIES

PLANNED FOR AUGUST

MTA LIBRARY



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VII. Summary of Activities Planned For August 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 A612, A740/A745 and A640.

C. Equal Opportunity Administration

- (1) Conduct contract compliance site visits, employee interviews and monitor reporting requirements for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A640, A710, A740, and A745.

D. Contracts and Procurement

- (1) Upon receipt of District approval:
 - a. Issue new Subcontract for Temporary Personnel Services.
 - b. Issue remainder of AWP-6 Amendments to Services Subcontracts for Construction Photographic Services, Guard Services, Site Cleanup Services, and Laboratory Testing and Inspection Services.



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- c. Issue Consulting Agreements as required.
- d. Issue Amendment to Mueser-Rutledge for consulting services of Dr. James Gould.
- (2) Issue Purchase Orders covering photo developing, copier rental, typewriter maintenance and reproduction services.

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) Update slide presentations of ongoing construction activities.
- (8) Assist A141 with Traffic Control coordination for relocation of tunnel mining machine.

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) Review A167 and A631 Safety and Security Plans and review Safety Representative for the A631 Project.

G. Construction Operations

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



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- (2) Continue coordination with governmental agencies and MOS-1 inspection with LADOT.
- (3) Continue to process submittals and Master Agreement invoices on as-needed basis.
- (4) Continue monitoring of groundwater and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
- (5) Continue monitoring Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
- (6) Prepare and submit July Discharge Monitoring Reports (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (7) Prepare and submit July LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (8) Continue to monitor instrumentation, building and ground settlement mark for various contracts.
- (9) Continue to check Contractor's control points and layout.
- (10) Continue to perform survey tasks as requested by RES.
- (11) Continue to perform as-built survey of tunnels for Contracts A141 and A146.
- (12) Continue location surveys in shop and yard contracts.
- (13) Continue to check slab pours for Contracts A141, A165 and A175.
- (14) Perform control survey through AR Tunnel (A171).
- (15) Provide A145 as-built drawings to the City of Los Angeles in order to obtain sign-offs for building basements along Hill Street (east side).

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 A187 Wilshire/Alvarado Station, Stage II.

I. Project Controls

- (1) Process Monthly Payment Estimates for all active contracts.
- (2) Process all the executed Change Orders through TRACS.



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- (3) Continue close-out reconciliations for Force Account Change Orders.
- (4) Review Contractor Monthly Progress Reports.
- (5) Prepare inputs to RTD Monthly Progress Report.
- (6) Review Schedule Submittals for A631 Part I, A167 Part II and A146 Part II Schedule Revision.

* See Page 44



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DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS
7-29-89 TO 8-25-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	DWGS	CAR		07-20-89	08-01-89*			*RESCHEDULED TO WEEK OF 8-14-89
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	SPEC	CAR		07-20-89	08-01-89*			*RESCHEDULED TO WEEK OF 8-14-89

**

2 records listed. 2 values listed.

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

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

SECTION VIII

SUBCONTRACTOR/CONSULTANT

STATUS

MTA LIBRARY



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VIII. SUBCONTRACTOR/CONSULTANT STATUS

Section VIII includes the final Subcontract Status Report closing out the 5th AWP, as well as the first report for the 6th AWP.

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.

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT - FINAL

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUISITION DATE	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	RATE AMOUNT	DATE EXECUTED	REMARKS
JULY 28, 1989											
1-SC-3369-1 BETTER PERSONNEL EMPLOYMENT SERVICES											
AWARD NO. 11		08/03/88	06/08/88	07/25/88	06/13/88	06/13/88	06/13/88	06/14/88	\$420,632	08/11/88	FIFTH AWP
CHANGE ORDER NO. 4		N/A	N/A	N/A	11/04/88	11/08/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
2-SC-3369-1 CONSTRUCTION CONTROL SERVICES CORP.											
AWARD NO. 11		08/03/88	06/08/88	07/25/88	06/13/88	06/13/88	06/13/88	06/14/88	\$1,482,039	08/11/88	FIFTH AWP
CHANGE ORDER NO. 3		N/A	N/A	N/A	11/04/88	11/28/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
AWARD NO. 12		N/A	N/A	N/A	05/15/89	06/01/89	N/A	N/A	\$1,617,039	06/01/89	INCREASES FUNDS
3-SC-3369-1 JAMES & MOORE											
AWARD NO. 10		08/03/88	06/08/88	07/25/88	06/27/88	06/28/88	06/30/88	08/15/88	\$234,577	08/16/88	FIFTH AWP
CHANGE ORDER NO. 3		N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
4-SC-3369-1 ENGINEERING-SCIENCE											
AWARD NO. 10		08/03/88	06/08/88	07/25/88	07/05/88	07/18/88	07/18/88	08/12/88	\$228,002	08/15/88	FIFTH AWP
CHANGE ORDER NO. 3		N/A	N/A	N/A	11/04/88	12/07/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
AWARD NO. 11		12/30/88	N/A	06/20/89	01/16/89	01/25/89	01/27/89	04/25/89	\$477,824	04/25/89	INCREASES FUNDS
5-SC-3369-1 HAYAKAWA ASSOCIATES											
AWARD NO. 10		08/30/88	07/15/88	07/25/88	08/02/88	08/19/88	08/24/88	08/16/88	\$133,484	09/16/88	FIFTH AWP (TERMINATED)
6-SC-3369-1 JACOBS ASSOCIATES											
AWARD NO. 13		08/03/88	06/09/88	07/25/88	05/22/89	06/28/88	06/30/88	08/15/88	\$558,419	08/16/88	FIFTH AWP
CHANGE ORDER NO. 4		N/A	N/A	N/A	11/04/88	12/06/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE



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FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT - FINAL (Cont'd)

JULY 24, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUIT- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	WTE AMOUNT	DATE EXECUTED	REMARKS
1-SC-3389-1 JENNINGS, SALES & MARTINEZ, INC.												
AMEND. NO. 13		08/03/88	04/08/88	06/08/88	07/25/88	07/16/88	07/29/88	07/29/88	08/23/88	\$738,465	08/23/88	FIFTH AMP
CHANGE ORDER NO. 4		N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
4-SC-3389-1 MARTIN & HUANG INTERNATIONAL												
AMEND. NO. 11		08/03/88	04/08/88	06/08/88	07/25/88	07/13/88	07/18/88	07/25/88	08/18/88	\$485,239	08/18/88	FIFTH AMP
CHANGE ORDER NO. 4		N/A	N/A	N/A	N/A	10/08/88	10/17/88	N/A	N/A	N/C	10/08/88	REVISED IPR
CHANGE ORDER NO. 5		N/A	N/A	N/A	N/A	10/31/88	11/02/88	N/A	N/A	N/C	10/31/88	ADMINISTRATIVE
AMEND. NO. 12		N/A	N/A	N/A	N/A	05/24/89	05/30/89	N/A	N/A	\$534,659	05/30/89	INCREASES FUNDS
9-SC-3389-1 NORTH PACIFIC CONSTRUCTION MANAGEMENT												
AMEND. NO. 13		08/03/88	04/08/88	06/29/88	07/25/88	07/18/88	07/20/88	08/03/88	08/23/88	\$435,803	08/23/88	FIFTH AMP
CHANGE ORDER NO. 5		N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
10-SC-3389-1 DODIA & SILLAS												
AMEND. NO. 7		08/03/88	04/08/88	06/14/88	N/A	07/19/88	07/21/88	07/25/88	08/15/88	\$79,500	08/15/88	FIFTH AMP
11-SC-3389-1 RANDOLPH & TATE ASSOCIATES												
AMEND. NO. 7		08/03/88	04/08/88	04/18/88	N/A	07/20/88	08/08/88	08/08/88	08/18/88	\$10,000	08/18/88	FIFTH AMP
15-CS-3389-1 MUESER RUTLEDGE CONSULTING ENGINEERS (JAMES GOULD, Ph.D.)												
AMEND. NO. 5		08/23/88	N/A	06/15/88	N/A	06/21/88	06/21/88	06/23/88	08/12/88	\$20,000	08/12/88	FIFTH AMP
18-SC-3389-1 GEO GRAY/ PHOTOGRAPHY												
AMEND. NO. 3		08/13/88	N/A	N/A	N/A	08/18/88	08/19/88	07/01/88	09/18/88	\$42,300	08/22/88	FIFTH AMP
CHANGE ORDER NO. 2		N/A	N/A	N/A	N/A	7/20/88	7/20/88	N/A	N/A	N/C	7/20/88	ADMINISTRATIVE
CHANGE ORDER NO. 3		N/A	N/A	N/A	N/A	5/16/89	05/10/89	N/A	N/A	N/C	05/10/89	ADDS ITEMS
AMEND. NO. 4		07/17/89	N/A	N/A	N/A	07/05/89	07/10/89	05/15/89	06/20/89	\$65,000	07/10/89	INCREASES FUNDS
9-SC-3389-1 WORK CENTER, INC.												
AMEND. NO. 5		05/25/88	N/A	N/A	N/A	08/12/88	08/26/88	06/21/88	08/11/88	\$50,000	08/26/88	FIFTH AMP
AMEND. NO. 6		N/A	N/A	N/A	N/A	11/07/88	12/20/88	N/A	N/A	N/C	12/20/88	ADMINISTRATIVE
AMEND. NO. 7		02/08/89	N/A	N/A	N/A	05/10/89	05/17/89	07/08/89	05/07/89	\$78,000	05/05/89	INCREASES FUNDS
AMEND. NO. 8		05/22/89	N/A	N/A	N/A	05/22/89	06/18/89	05/01/89	05/11/89	\$110,000	06/18/89	INCREASES FUNDS

Parsons-Dillingham-De Leuw, Cather



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FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT - FINAL (Cont'd)

JULY 28, 1989

SUBCONTRACT NUMBER	SUBCONTRACT DESCRIPTION	REQU- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
21-SC-3369-1	SMITH EMERY CO.											
AMEND NO. 3		06/13/88	N/A	N/A	07/25/88	08/23/88	08/28/88	06/16/88	08/28/88	\$395,000	08/31/88	FIFTH AMP
CHANGE ORDER NO. 4		N/A	N/A	N/A	N/A	12/30/88	N/A	N/A	N/A	N/C	12/30/88	ADDS ITEMS
AMEND NO. 4		04/15/88	N/A	N/A	04/03/88	04/05/88	04/05/88	02/15/80	04/03/88	\$535,000	04/05/88	INCREASES FUNDS
AMEND NO. 5		07/12/88	N/A	N/A	N/A	07/19/88	07/26/88	N/A	N/A	\$685,000	07/26/88	INCREASES FUNDS
22-SC-3369-1	COLEMAN SECURITY SERVICES INC.											
AMEND NO. 3		05/13/88	N/A	N/A	N/A	08/15/88	08/17/88	06/15/88	08/15/88	\$53,000	08/18/88	FIFTH AMP
29-SC-3369-1	SUBWAY TERMINAL BLDG. (A145/146 SITE OFFICE LEASE)	N/A	N/A	N/A	N/A	N/A	N/A	06/01/88	06/02/88	\$56,910	N/A	EXER 1 YR OPT
33-SC-3369-1	K. E. ENOACOTT (CONSULTING AGREEMENT)	05/16/88	N/A	N/A	N/A	08/16/88	07/05/88	07/05/88	08/16/88	\$81,000	08/16/88	FIFTH AMP
34-SC-3369-1	RAMSACK-DANIELL INC. (COMPLETED)											
36-SC-3369-1	MARY & SON MAINTENANCE (SITE CLEAN-UP)	06/27/88	06/27/88	07/21/88	07/25/88	08/10/88	08/11/88	07/13/88	08/12/88	\$60,000	08/15/88	FIFTH AMP
38-SC-3369-1	STARLITE SAFETY SUPPLIES (COMPLETED)											
37-SC-3369-1	AL KALISHAN	08/25/88	09/12/88	10/19/88	N/A	12/15/88	12/19/88	11/04/88	12/12/88	\$98,000	12/20/88	NEW ASSOCIATE
AMEND NO. 1		N/A	N/A	02/17/89	N/A	07/23/89	03/15/89	N/A	N/A	\$84,130	03/15/89	RATE ADDITIONS
38-SC-3369-1	EDWARD D. GRAF (CONSULTING AGREEMENT)	08/10/88	N/A	N/A	N/A	08/12/88	08/16/88	08/10/88	09/07/88	\$50,000	09/07/88	
39-SC-3369-1	O'LEON CONSULTING ENGINEERS CO.	08/25/88	09/12/88	10/18/88	N/A	12/15/88	12/29/88	11/04/88	12/12/88	\$98,075	12/30/88	NEW ASSOCIATE
40-SC-3369-1	TRANSMETRICS	08/25/88	09/12/88	10/19/88	N/A	12/15/88	12/29/88	11/04/88	12/12/88	\$55,350	12/29/88	NEW ASSOCIATE
CHANGE ORDER NO. 1		N/A	N/A	N/A	N/A	01/26/89	02/01/89	N/A	N/A	N/C	01/26/89	ADMINISTRATIVE



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SIXTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT

JULY 21, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	APPROVAL JV	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
1-SC-3369-1	RTD HILFER PERSONNEL EMPLOYMENT SERVICES	**	04/12/89	06/13/89	07/20/89	06/16/89	06/16/89	06/21/89	07/21/89	\$415,724	07/21/89	SIXTH AMP
2-SC-3369-1	CONSTRUCTION CONTROL SERVICES CORP.	**	04/12/89	06/14/89	07/20/89	06/22/89	06/21/89	06/28/89	07/21/89	\$1,569,347	07/21/89	SIXTH AMP
3-SC-3369-1	JAMES & MOORE	**	04/12/89	06/12/89	07/20/89	06/22/89	06/26/89	06/28/89	07/21/89	\$138,215	07/21/89	SIXTH AMP
4-SC-3369-1	ENGINEERING-SCIENCE	**	04/12/89	06/12/89	07/20/89	06/22/89	06/21/89	06/28/89	07/21/89	\$214,384	07/21/89	SIXTH AMP
5-SC-3369-1	JACOBS ASSOCIATES	**	04/12/89	06/08/89	07/20/89	06/23/89	06/21/89	06/28/89	07/21/89	\$856,565	07/21/89	SIXTH AMP
6-SC-3369-1	JENKINS, GILES & HARTINEZ, INC.	**	04/12/89	06/12/89	07/20/89	06/26/89	06/26/89	06/28/89	07/21/89	\$656,763	07/21/89	SIXTH AMP
7-SC-3369-1	MARTIN & HUANG INTERNATIONAL	**	04/12/89	06/13/89	07/20/89	06/23/89	06/21/89	06/28/89	07/21/89	\$388,110	07/21/89	SIXTH AMP
8-SC-3369-1	NORTH PACIFIC CONSTRUCTION MANAGEMENT	**	04/12/89	06/13/89	07/20/89	06/23/89	06/21/89	06/28/89	07/21/89	\$248,112	07/21/89	SIXTH AMP
9-SC-3369-1	ODHA & SILLAS	**	N/A	N/A	N/A	06/23/89	06/23/89	06/27/89	06/27/89	\$64,000		SIXTH AMP
10-SC-3369-1	HANDELPH & TATE ASSOCIATES	**	04/12/89	06/15/89	N/A	06/30/90	07/24/89	07/24/89		\$20,000		SIXTH AMP
11-SC-3369-1	MUESER RUTLEDGE CONSULTING ENGINEERS (JAMES GOULD, P.R.D.)	**	N/A	07/14/89	N/A	07/17/89	07/28/89	07/28/89		\$10,000		SIXTH AMP

** IN PROCESS

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

JULY 28, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
18-SC-3389-1	GEO BWAY/ PHOTOGRAPHY	**	N/A	6/21/89	N/A			07/20/89		\$48,000		SIXTH AMP
21-SC-3389-1	SMITH EMERY CO.	**	N/A	N/A	07/20/89			07/19/89		\$632,300		SIXTH AMP
22-SC-3389-1	COLEMAN SECURITY SERVICES INC.	**	N/A	07/12/89	N/A			07/14/89		\$72,000		SIXTH AMP
29-SC-3389-1	SUBWAY TERMINAL BLDG. (A115/146 SITE OFFICE LEASE)	**	N/A	N/A	N/A			07/14/89		\$24,000		SIXTH AMP
35-SC-3389-1	MARY & SON MAINTENANCE (SITE CLEAN-UP)	**	N/A	N/A	N/A			07/14/89		\$93,278		SIXTH AMP
37-SC-3389-1	AL KRISHNAN	**	N/A	N/A	N/A			07/19/89		\$175,554		SIXTH AMP
39-SC-3389-1	DILEON CONSULTING ENGINEERS CO.	**	N/A	N/A	N/A			07/25/89		\$74,581		SIXTH AMP
40-SC-3389-1	TRANSMETRICS	**	N/A	N/A	N/A			06/27/89		\$11,500		SIXTH AMP
41-SC-3389-1	MALLY B. EVANS (CONSULTING AGREEMENT)	**	N/A	N/A	N/A			07/07/89		\$91,000		SIXTH AMP
42-SC-6559-1	MANPOWER	**	N/A	N/A	N/A			07/18/89		\$7,500		SIXTH AMP
43-SC-3389-1	F. E. ENDACOTT (CONSULTING AGREEMENT)	**	N/A	N/A	N/A							

** IN PROCESS





SECTION IX

CONSTRUCTION PROGRESS PHOTOS



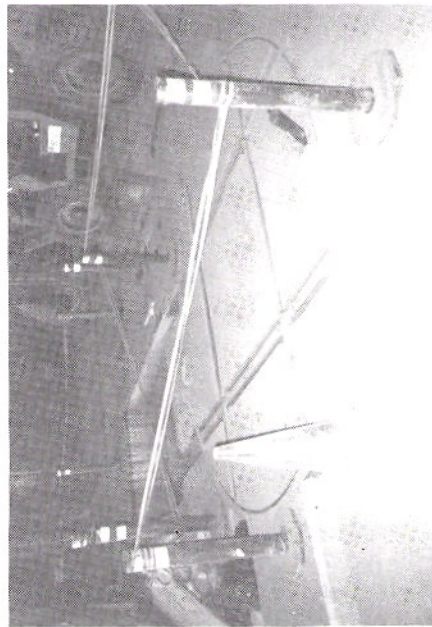
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

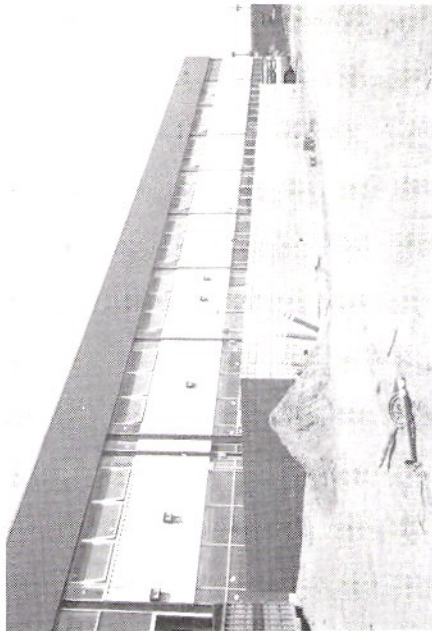
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PERIOD JULY 1989

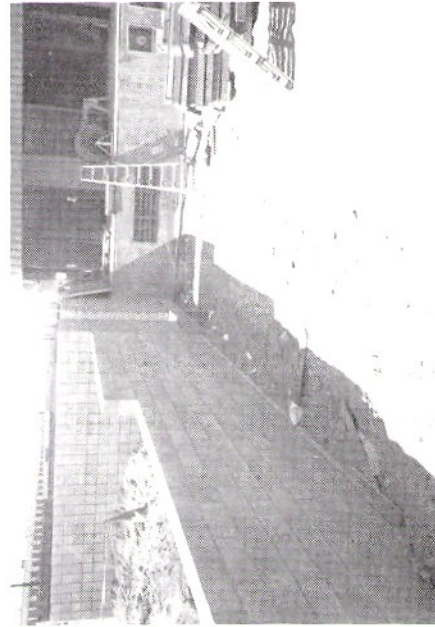
MAIN SHOP BUILDING CONTRACT A112 ✓



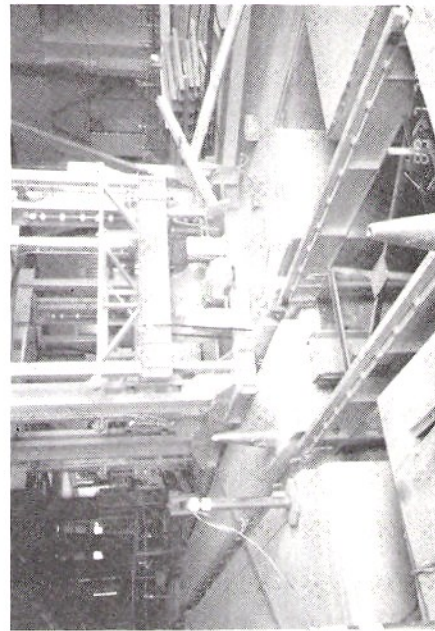
TRUCK TURNTABLE IN PLACE



LUNCH PATIO RETAINING WALL
TRELLIS SUPPORTS ON COLUMNS.
EXTERIOR LIGHTS PARTLY INSTALLED ON FACADE



LOADING DOCK RAMP RETAINING WALL



CAR HOIST MACHINE INSTALLED.
TRUCK HOIST READY FOR INSTALLATION
CAR SUPPORT MACHINERY IN BACKGROUND

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

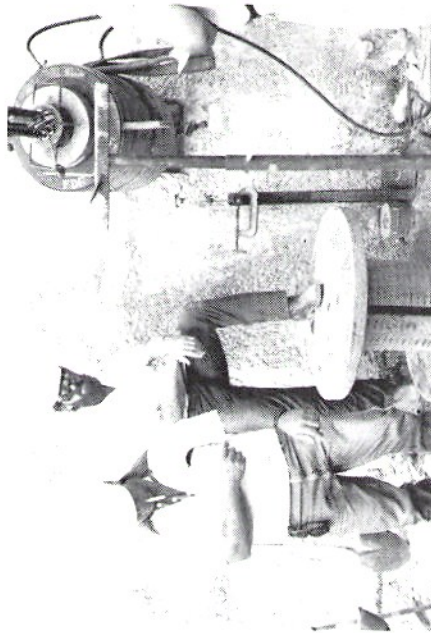
PDCD

PERIOD JULY 1989

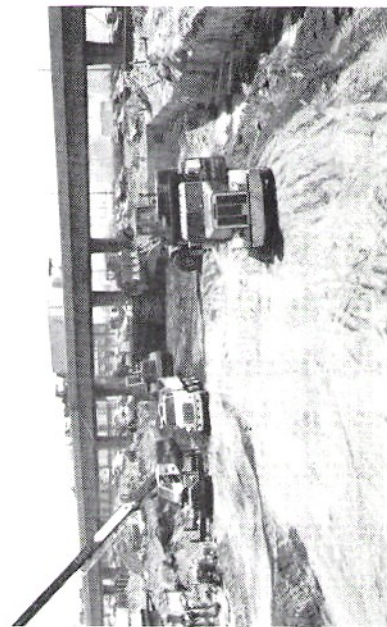
YARD LEADS & TRANSFER ZONE CONTRACT A130



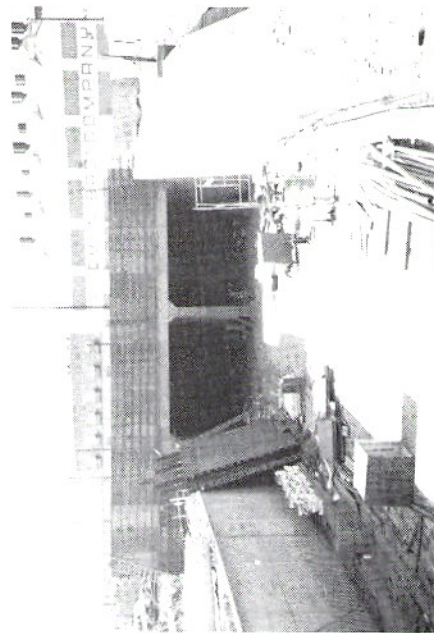
DRILLING FOR SLURRY WALL TIEBACKS



STRESSING TIEBACKS IN SLURRY WALL



STRUCTURE EXCAVATION - NORTH END NEAR BUSWAY



BOX STRUCTURE PORTAL - WING WALL FORMS IN PLACE

Parsons-Dillingham-De Leuw, Cather



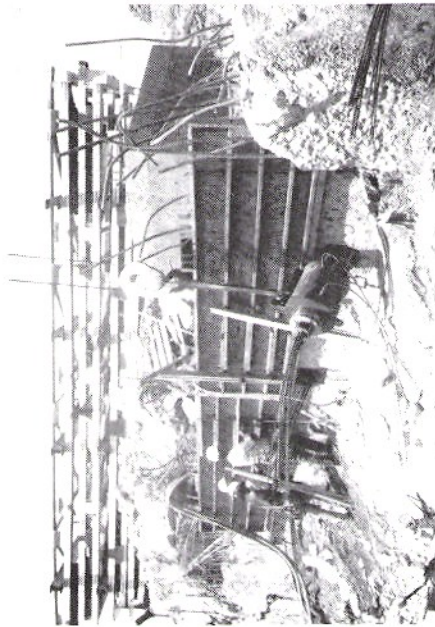
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

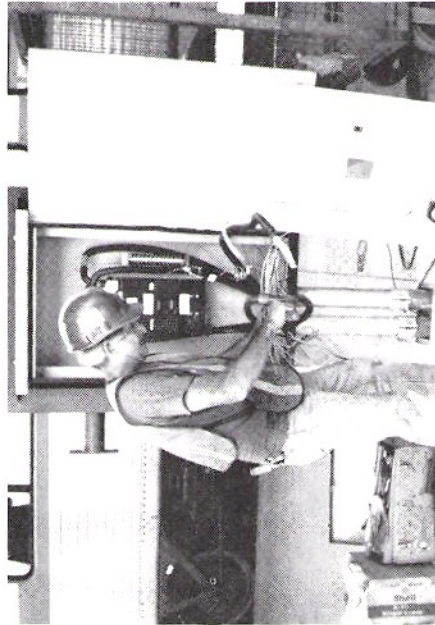
POCD

PERIOD JULY 1989

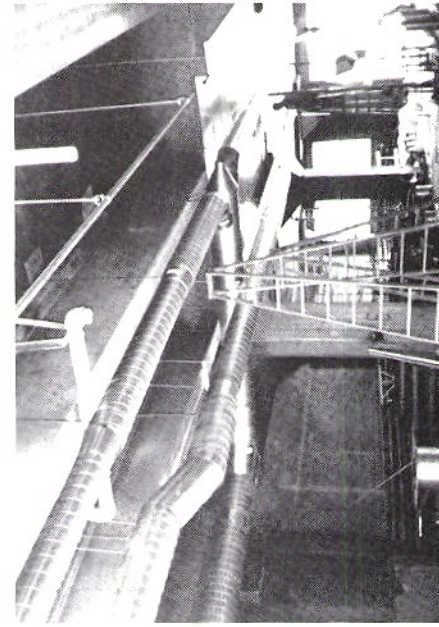
UNION STATION CONTRACT A135



SLURRY WALL TIEBACK ANCHOR STRESSING AND
PLACEMENT OF FORMS FOR THE TEMPORARY
VEHICLE BRIDGE CAP BEAM



TERMINATION OF ELECTRICAL CABLE AT
PLATFORM LIGHTING PANEL



INSTALLATION OF HVAC DUCTS IN
THE BAGGAGE HANDLING FACILITY



INSTALLATION OF PLATE GIRDER FOR
THE TEMPORARY VEHICLE BRIDGE



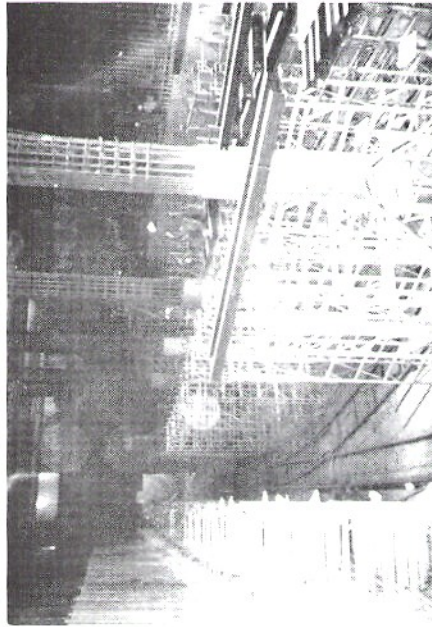
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

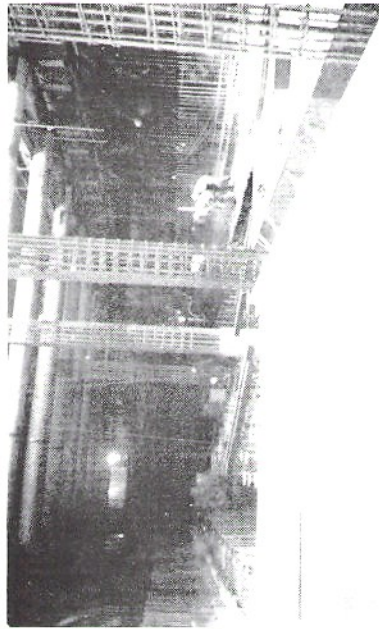
PDCD

PERIOD JULY 1989

CIVIC CENTER STATION AND TUNNEL CONTRACT A141



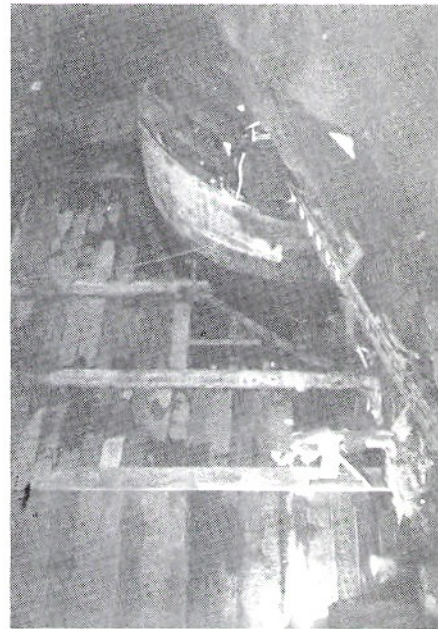
INSTALLING SUPPORTS FOR MEZZANINE DECK SLAB



INSTALLING MEZZANINE DECK SLAB FRAMING



MOVING MEZZANINE WALL FORM FROM WEST
TO EAST SIDE OF STATION



BREAKOUT OF AL TUNNEL INTO 5TH AND HILL STATION



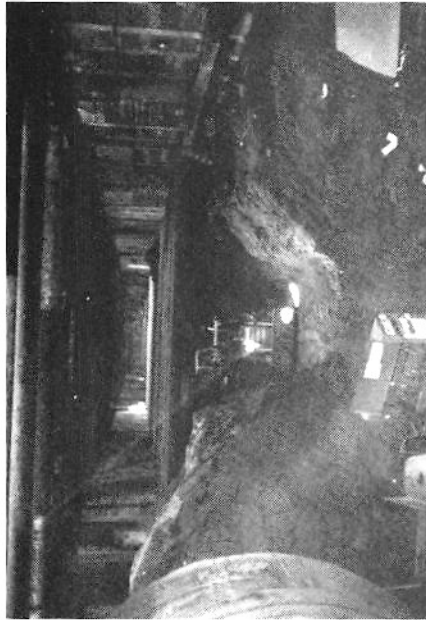
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

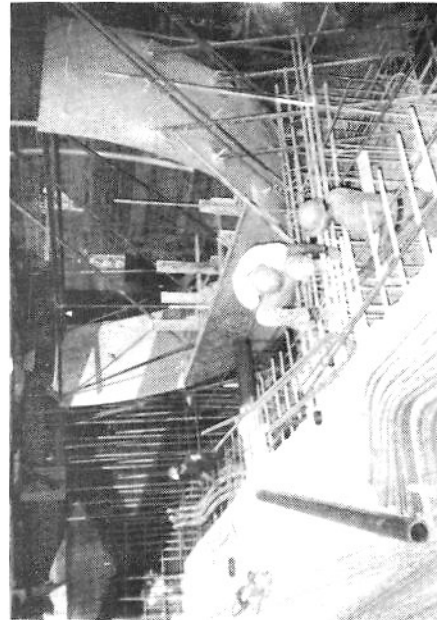
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PERIOD JULY 1989

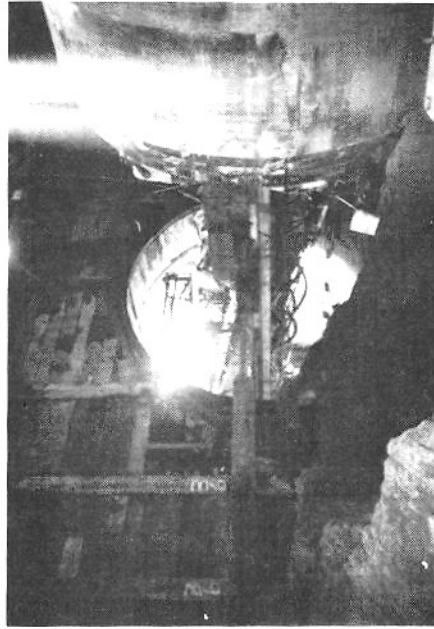
5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I CONTRACT A145/A145A (Contd)



OVERVIEW OF THE STATION'S EXCAVATION NORTH TO SOUTH. SHOWN ARE LEVEL 3 AND 4 STRUTS AND BORING MACHINE (PART OF) TO THE LEFT



THE STATION SOUTH BULKHEAD WITH THE TUNNEL END RINGS SHOWING AND REBAR FOR INVERT 16



THE A141 BORING MACHINE AS IT HAS BORED THROUGH THE STATION'S NORTH BULKHEAD
(1 TUNNEL COMPLETED)



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

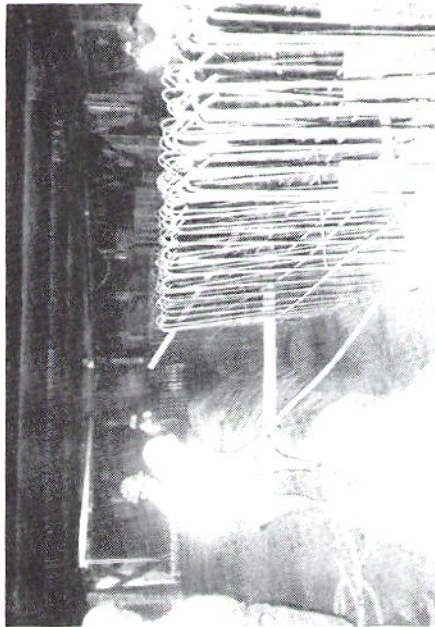
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PERIOD JULY 1989

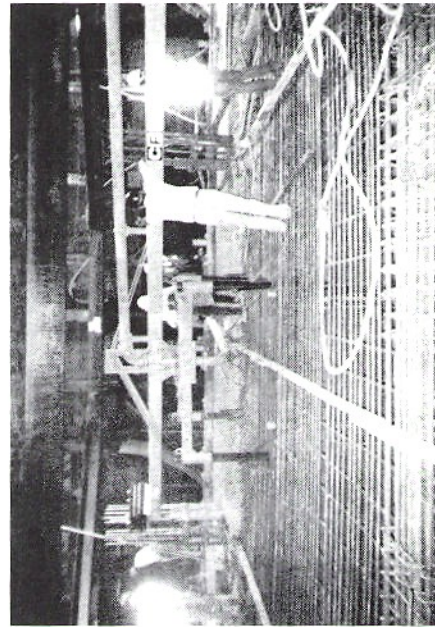
5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I CONTRACT A145/A145A



OVERVIEW OF THE REBAR PLACEMENT
ACTIVITIES IN THE STATION'S
SOUTHERN END (INVERTS 12 THRU 16)



POURING CONCRETE FOR GRADE BEAM IN INVERT 15



CONCRETE PLACING/PUMPING MECHANISM IN
THE STATION'S SOUTHERN END



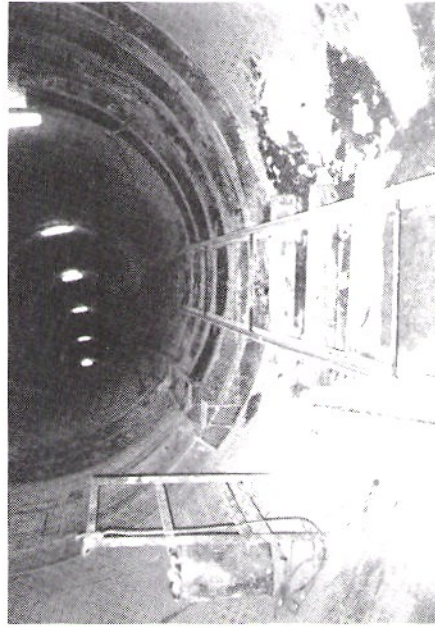
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

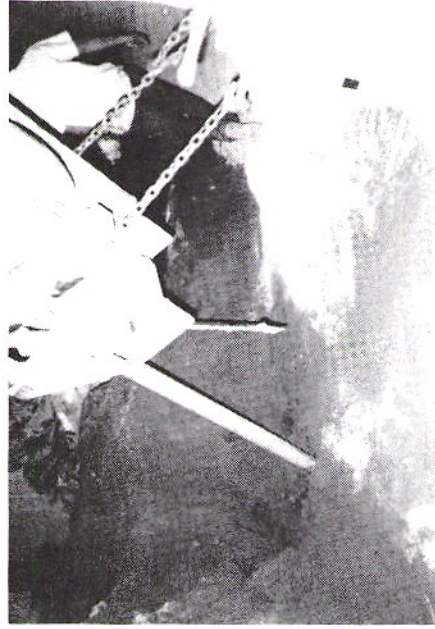
PD CD

PERIOD JULY 1989

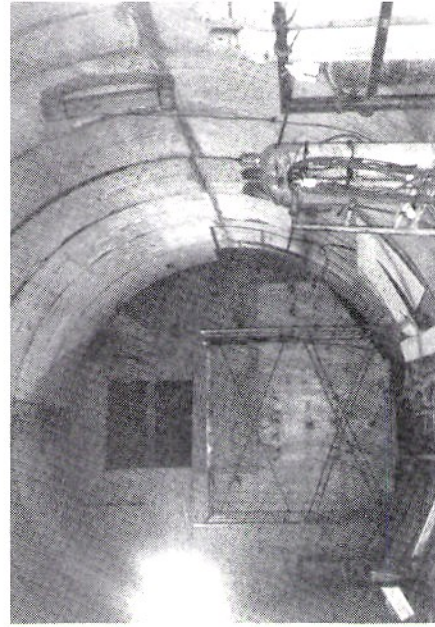
TUNNELS FROM 5TH/HILL TO 7TH/FLOWER CONTRACT A146



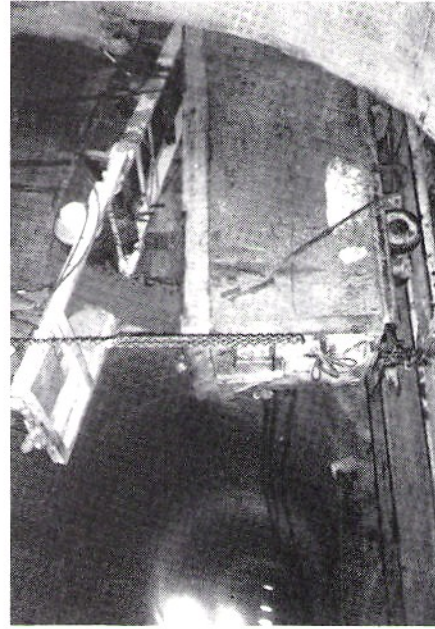
SUPPORT STEEL INSTALLED FOR
CROSS PASSAGE BREAKOUT



COMPACTION GROUT HOLE DRILLING
AT LA JEWELERS MALL



TEMPORARY VENTILATION BULKHEAD
AT END OF AL TUNNEL



TEMPORARY MUCK REMOVAL SYSTEM
AT START OF AR TUNNELING

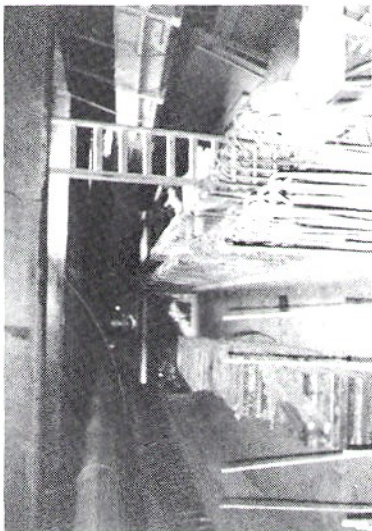


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

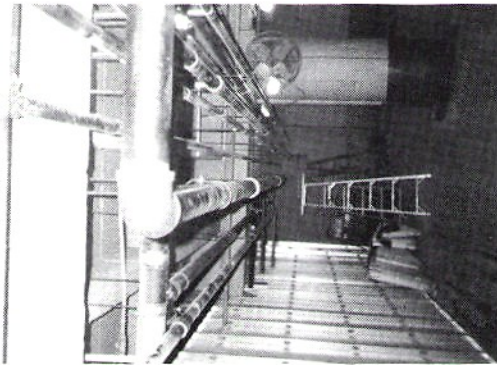
POCD

PERIOD JULY 1989

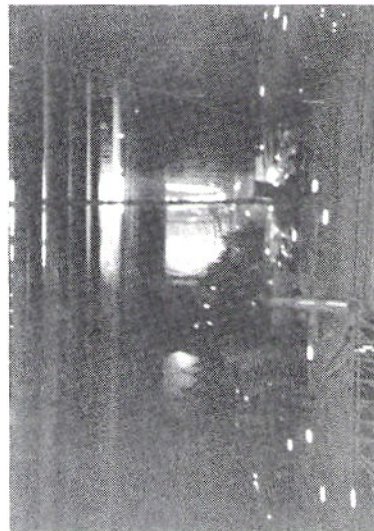
7TH/FLOWER STATION
CONTRACT A165



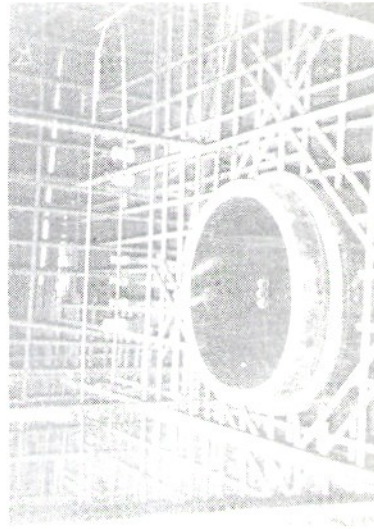
OVERTRAIN EXHAUST SLAB ON
SOUTH FLOWER ST.



RE-ROUTED UTILITY PIPING
IN ROOSEVELT BLDG.



WEST BULKHEAD ON 7TH ST.



ELEVATOR CASING ON 7TH ST.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

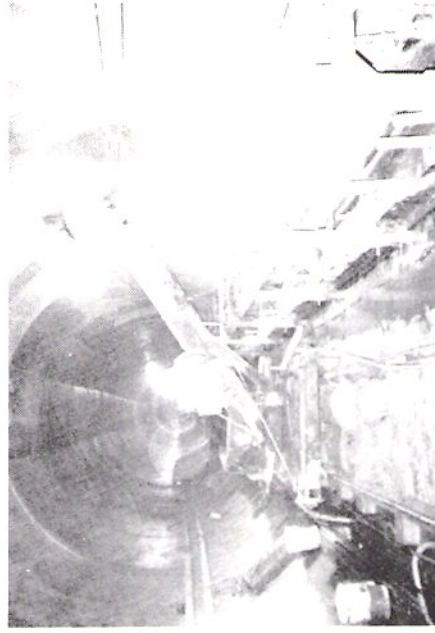
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PERIOD JULY 1989

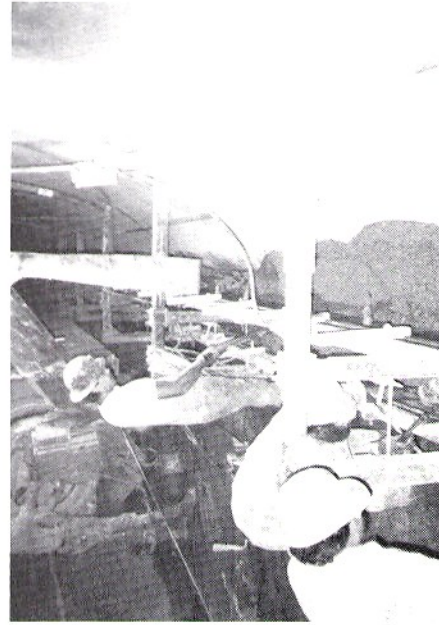
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO CONTRACT A171



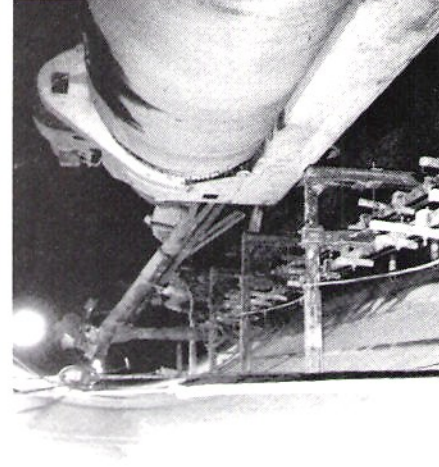
AL WALKWAY FORMS INSTALLED AT STA 205+82
TO 206+10; 1ST PLACEMENT



CONCRETE PLACEMENT AUGER READY TO
RECEIVE MORAN CAR



CONCRETE BEING PLACED IN
AL WALKWAYS, 1ST LIFT



MORAN CONCRETE CAR IN PLACE FOR
WALKWAY CONCRETE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

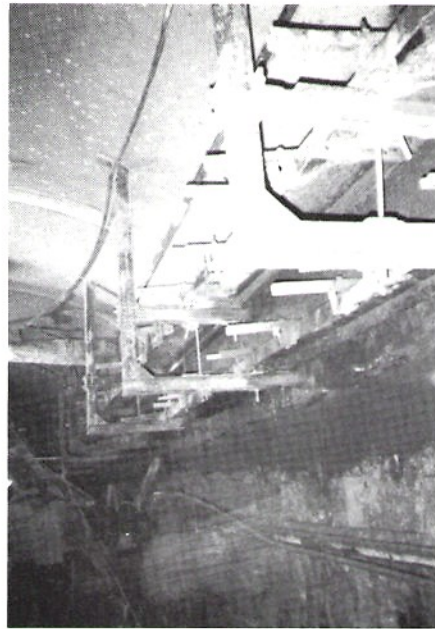
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PERIOD JULY 1989

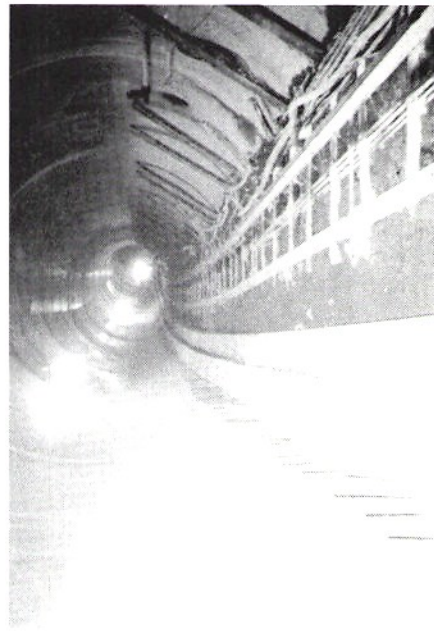
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO CONTRACT A171 (Contd)



CONCRETE IN WALKWAY FORM IN 1ST STEP;
1ST LIFT (VIEW 1)



CONCRETE IN WALKWAY FORM IN 1ST STEP;
1ST LIFT (VIEW 2)



AL WALKWAY CONCRETE 1ST LIFT IN PLACE;
FORMS ARE REMOVED STA 218+00 TO 210+50



AL WALKWAY CONCRETE 1ST LIFT IN PLACE;
FORMS ARE REMOVED FROM STA 215+00 TO 213+00

Parsons-Dillingham-De Leuw, Cather



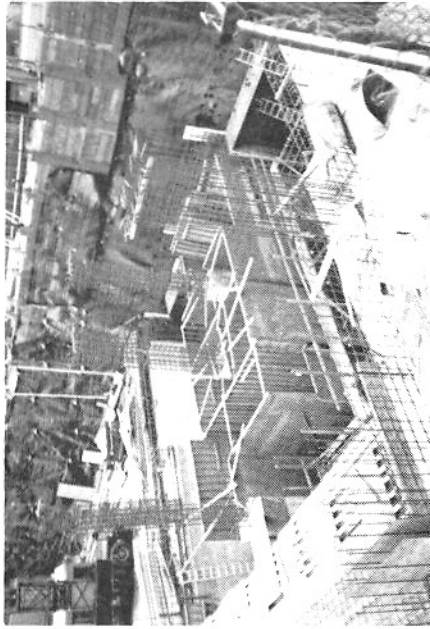
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

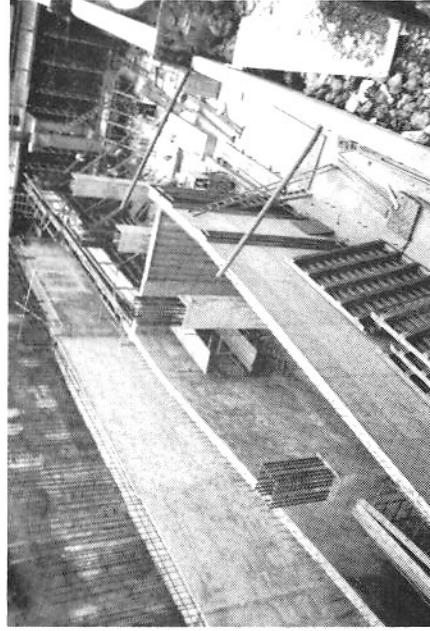
PDCD

PERIOD JULY 1989

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



INTERIOR WALLS BEING FORMED BETWEEN BASE
SLAB AND MEZZANINE AT WEST END OF STATION



INTERIOR WALLS AT DOUBLE CROSSOVER
FROM COLUMN LINE 12 TO 16



EXCAVATION AND EXCAVATION SUPPORT ARE
CONTINUING AT THE A175/A171 INTERFACE



EXCAVATION AROUND SOLDIER PILES AT A171/A175
INTERFACE. A RAIL CONCRETE AGITATOR CAR
CAN BE SEEN AT INVERT GRADE OF A171 SHAFT

Parsons-Dillingham-De Leuw, Cather



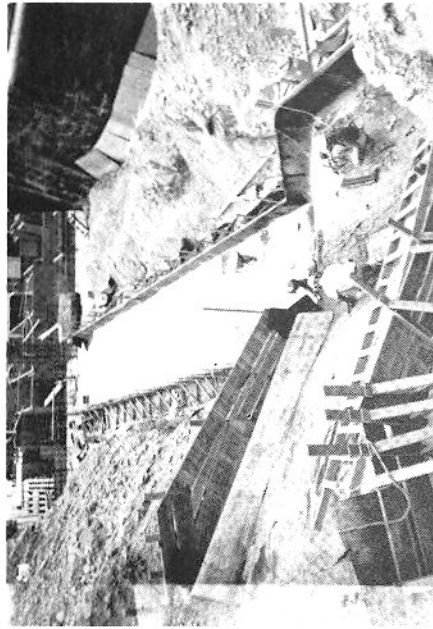
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

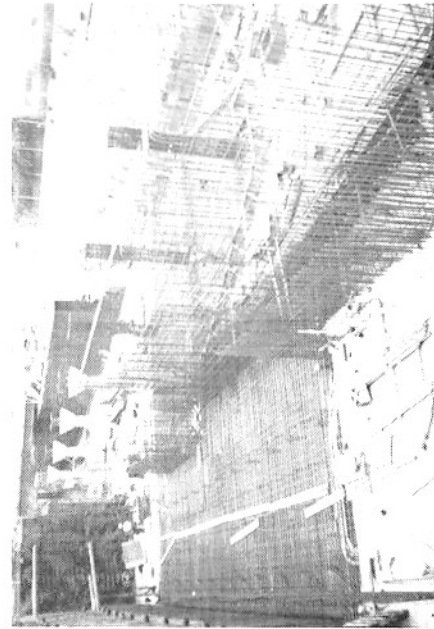
WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175



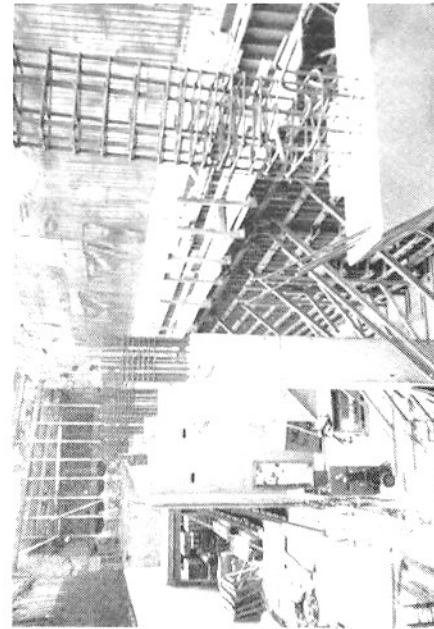
INSTALLATION OF HDPE LINER IN THE
EMERGENCY STAIR #7 AREA



END VIEW OF STATION CONSTRUCTION PROGRESS
FROM BONNIE BRAE ST. FACING WEST



END VIEW OF STATION AND NORTH PASSAGEWAY,
CONSTRUCTION PROGRESS FROM ALVARADO ST.
FACING EAST



INTERIOR WALLS AT EAST END OF STATION
AT BEGINNING OF DOUBLE CROSSOVER



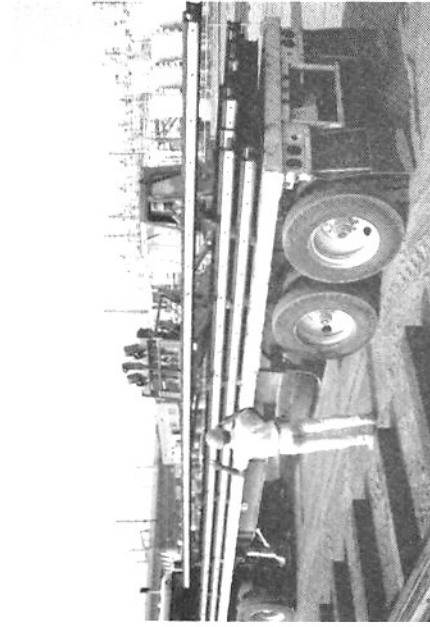
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JULY 1989

TRACKWORK INSTALLATION/YARD STORAGE AREA CONTRACT A610/A115



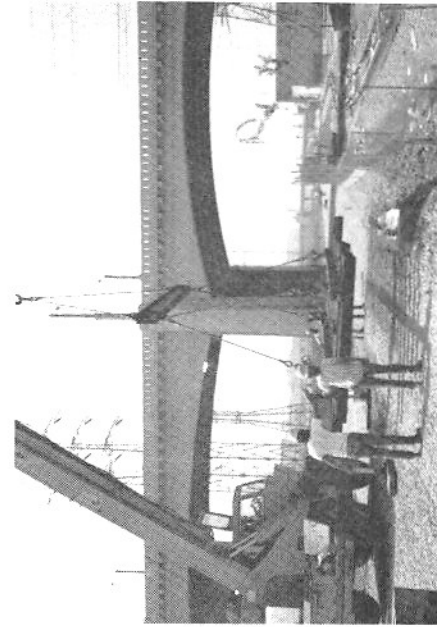
UNLOADING AND STORING CONTACT RAILS
AT YARD SITE



GRADING INITIAL BALLAST AT 6TH ST. AREA



PLACING TIES FROM SOUTH OF 6TH ST.
TO SOUTH END OF PROJECT



PLACING PREASSEMBLED SWITCH POINTS FOR
NO. 8 SINGLE CROSSOVER AT 6TH ST. AREA



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