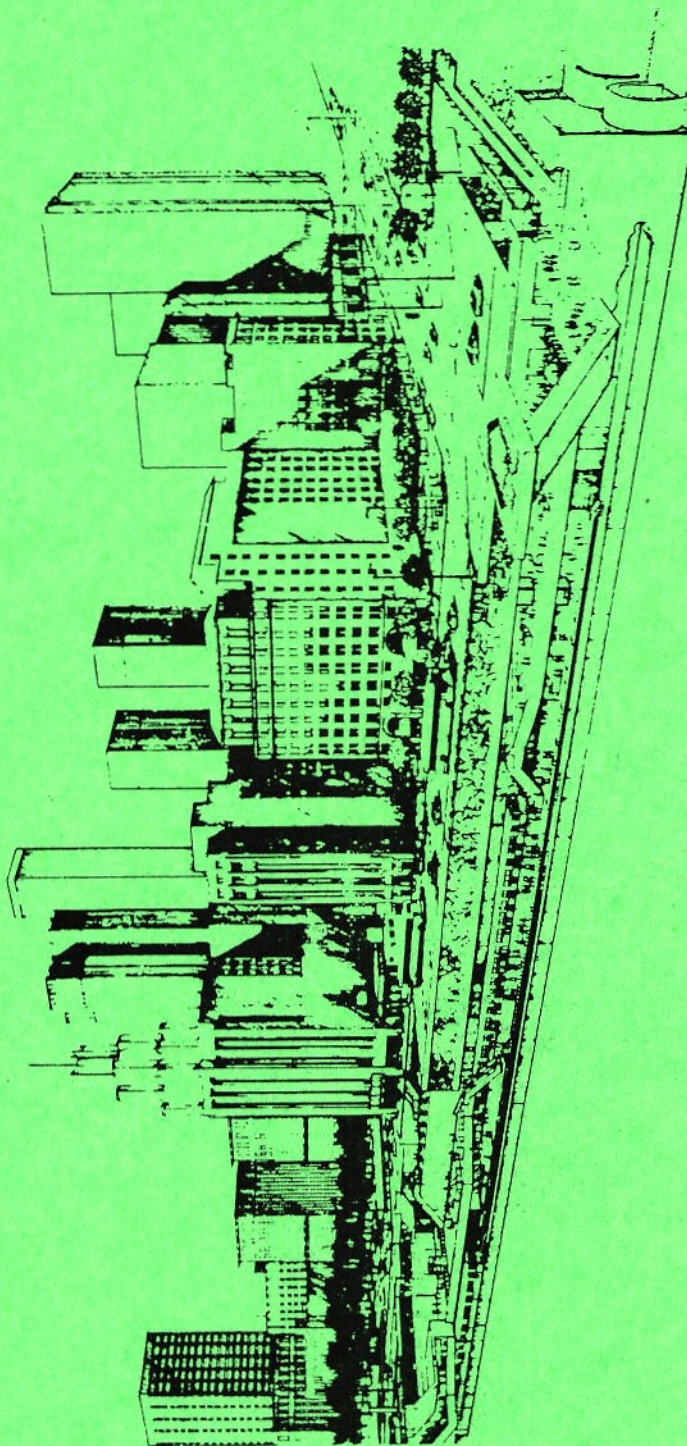


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1985-
.M46
R46
no. 59



RTD

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



REPORT NUMBER 59
MAY 1989

PRCD

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

MAY 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 MAY Year 1989

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no. 59



LOS ANGELES METRO RED LINE

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PDCD

PERIOD MAY 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 May 1989 is the eleventh CPR in the Fifth Annual Work Plan (5th AWP) and covers the period April 29 through May 26, 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 ground water 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 March Discharge Monitoring Report (DMR) to the California Regional Water Quality Board (CRWQCB). Prepared and submitted March LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Coordinated and inspected installation of water treatment facilities at A141. Inspected asbestos abatement at the Equitable Building, A145. Reviewed and approved final asbestos submittal and reviewed clearance report for asbestos abatement at REA building, A135. Completed and submitted closure report for 4 tank abandonments at A165. Properly abandoned underground storage tanks at A145. Monitored removal, relocation and disposal of contaminated soil at A175. Coordinated acceptance of contaminated soil from A146 at Class II landfill.

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 inspections with LADOT. Processed a total of 18 Traffic and Utilities related submittals.

Surveying Activities: Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175. Continued location survey at yards and shop contracts. Checked slabs poured at A141 and A175 excavation. Continued performing as-built cross section of AR Tunnel invert pour (A171). Continued checking arch form alignment AL tunnel (A171). Performed tunnel alignment check AR tunnel (A141). Continued tunnel alignment check at AL tunnel (A146). Checked layout of A165 station.



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PROJECT CONTROLS: Processed 30 Change Requests as follows: 4 for A112; 1 for A130; 4 for A135; 3 for A141; 1 for A145/A145A; 2 for A146; 11 for A165; 1 for A175; and 3 for A610/A115. Processed 28 Change Notices as follows: 3 for A130; 2 for A141; 4 for A145/A145A; 2 for A146; 9 for A165; 2 for A175; 1 for A610/A115; 1 for A620; 1 for A630; 2 for A640; and 1 for A710. Processed 68 Change Orders as follows: 7 for A112; 4 for A130; 7 for A135; 9 for A141; 5 for A145/A145A; 4 for A146; 9 for A165; 7 for A175; 12 for A610/A115; 1 for A616; 2 for A620; and 1 for A640. Processed 27 executed Change Orders through TRACS as follows: 1 for A112; 2 for A130; 2 for A135; 3 for A141; 5 for A144; 4 for A145/A145A; 4 for A146; 1 for A165; 3 for A175; 1 for A610/A115; and 1 for A745. Processed 31 Potential Claims as follows: 1 for A145/A145A; 28 for A165; and 2 for A610/A115. Processed 23 Change - Technical Evaluations as follows: 4 for A112; 1 for A135; 2 for A141; 3 for A145/A145A; 6 for A165; 1 for A175; 5 for A610/A115; and 1 for A620. Processed 17 Force Account Change Packages as follows: 3 for A145/A145A; 3 for A146; 2 for A165; 1 for A171; 4 for A175; 4 for A750. Processed 19 Monthly Payment Estimates. Completed close-out reconciliations on 10 Force Account Change Orders as follows: 5 for A145/A145A; 2 for A146; 2 for A165; and 1 for A175. Continued testing PC TRACS for use on the project. Reviewed Contractor Monthly Progress Reports. Prepared inputs to RTD Monthly Status Report. Reviewed A167 Part I Schedule Submittal - Rejected.

Cost Estimates for Changes and Proposals: A112-CR-068: Lighting system conduits. Reviewed scope of work and quantities with Contractor. A130-CR-025: Prepared estimate; assisted in negotiated settlement with Contractor. A130-CR-016: Reviewed estimate and contractor proposal; assisted in negotiated settlement with Contractor. A135-CR-004: Continued review of proposals and changes for LAUPT Baggage Handling Facilities; A135-CR-005: Reviewed contractor proposal for REA building demolition. A135-CR-011: Received west entrance drawings, made preliminary review. A135-CR-029: Reviewed concrete water cement ratio change with RTD and Contractor, breakdown for payment. A135-CR-032: Began preparation of estimate for police room LAUPT. A141-CR-040: Began review of incoming electrical service room change. A141-CR-097A: Completed estimate additional strain gauges on struts. A145-CR-122, 123 & 128: Prepared estimates, escalator wellway, engagement access, and elevator machine room. A145-CR-141: Reviewed scope of work and prepared estimate for station grounding General System. A146: Met with Contractor and RTD re: tunnel equipment rates for Force Accounts, began rebuttal to Contractor questions and objections. A165-CR-010: Prepared revised electrical estimate, miscellaneous changes. A165-CR-044: Began preparation of final estimate Hydraulic elevator lines and conduits. A165-CR-049: Reviewed final design east bulkhead, provided data to Resident Engineer for negotiations. A165: Prepared detailed takeoff of decking in support of final pay quantities. A620-CR-018: Completed estimate for deletion of ACTV coaxial cable installation. A620-CR-008: Prepared estimate for additional corrosion control requirements. A620-CR-020: Reviewed contractor estimate for trap circuit deletion. A710-CR-002, 003: Prepared R.O.M. estimates for elevator cab changes. Prepared revised instructions on Finding-of-Fact preparation, Claims Log Update, Change Request Preparation and Force Account processing. Met with DOT audit



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team and provided requested information.

CONTRACTS/PROCUREMENT: Prepared amendments to increase funding for subcontracts with Martin and Huang and Construction Control Services Corporation to cover remaining AWP-5 requirements. Prepared and submitted for District approval an Amendment to the Construction Photographic Services Subcontract to incorporate Change Orders No. 2 and 3, to increase AWP-5 funding and to remove unexpended AWP-4 funding. Received District approval and issued Amendments to increase AWP-5 funding for temporary personnel services subcontract with WCI. Following District approval, issued purchase orders for 12 PC's and related software. Issued Request for Quotations for renewing annual agreement covering reproduction services.

ENGINEERING SERVICES: Completed site geologic inspection of A146 AL tunnel and began compiling geologic profile for use in predicting the geology along the AR tunnel alignment. Coordinated with MRTC to develop an acceptable method for taking tunnel liner distortion measurements in Contract A146, where the shield configuration precludes use of the specified method. Recommended and coordinated the reduction of the Contractor's Civic Center Station strain gauge readings from once per day to once per week. Reviewed the A130 Contractor's method of orienting the horizontal chemical grout holes to be drilled beneath the Santa Ana Freeway. Inspected drilling of A130 pre-grouting proof test sample holes. Completed reviewing and cross checking results of Proctor testing performed by Smith-Emery Company. Completed data gathering phase of the A141 Design Verification Study Plan, Task C. Researched question of whether sub-ballast material is acceptable as crushed aggregate material throughout the A610/A115 job site. Responded to 98 requests for information or documentation clarification from various contractors. Processed 8 field inquiries with MRTC to obtain clarification of design requirements. Coordinated with the FLSC Fire Chiefs, MRTC, and A146 Contractor regarding fire protection system at cross passages.

During this period 325 Contractor submittals were processed as follows:

For Contract A112	- Approved - 5; Approved-as-Noted - 7; Rejected - 1.
For Contract A130	- Approved - 14; Approved-as-Noted - 8; Rejected - 3;
For Contract A135	- Approved - 8; Approved-as-Noted - 3; Rejected - 6.
For Contract A135BH	- Approved - 11; Approved-as-Noted - 9; Rejected - 5.
For Contract A141	- Approved - 17; Approved-as-Noted - 13;
For Contract A145	- Approved - 7; Approved-as-Noted - 12;
For Contract A146	- Approved - 1.
For Contract A165	- Approved - 31; Approved-as-Noted - 46; Rejected - 2; For Record Only - 1.

For Record Only - 1.
For Record Only - 2.



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For Contract A171	- Approved - 14;	Approved-as-Noted - 7;	Rejected - 3.
For Contract A175	- Approved - 12;	Approved-as-Noted - 3;	Rejected - 5;
For Contract A610/A115	- Approved - 11;	Approved-as-Noted - 2;	Rejected - 4.
For Contract A612	- Approved - 1.		
For Contract A620	- Approved - 12;	Approved-as-Noted - 1.	
For Contract A630	-	Approved-as-Noted - 1;	Rejected - 5.
For Contract A640	- Approved - 5;	Approved-as-Noted - 3;	Rejected - 5;
For Contract A710	- Approved - 4;	Approved-as-Noted - 2.	For Record Only - 1.
For Contract A740	-	Approved-as-Noted - 2;	Rejected - 1.
For Contract A745	- Approved - 1;	Approved-as-Noted - 1.	
For Contract A750	-	Approved-as-Noted - 1.	
For Contract A795	- Approved - 2.		

TOTAL

156

121

40

$\frac{156}{8} = 325$

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.

COMMUNITY RELATIONS - Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141. Coordinated mitigation of traffic concerns for tenants along Hill St. affected by A141 and A145 traffic access plans, and for tenants in the 7th and Flower area affected by A165 and A146 traffic plans. Provided assistance to A141, A145, A146 and A165 for problems caused by street closures and lane restrictions, blocked access, noise and accidents. Assisted RTD with coordination of the "hole-thru" media event for Civic Center Station. Assisted RTD in coordination for the LAUPT 50th Anniversary Celebration event. Coordinated safety and security meeting with LAPD. Provided assistance to PDCD/RTD in coordinating site visits and responding to media requests. Processed 24 inquiries/complaints.

QUALITY ASSURANCE/QUALITY CONTROL - Conducted field surveillance of welding activities in support of Contracts A135, A145, A165, A171 and shop fabrication surveillance at Paramount Steel, COWELCO, and Angeles Steel. Finalized "preparation of As-Built Drawings Procedure" based on anticipated PDCD responsibility for contract "as-built" preparation. Met with A112 R.E. to review proposed physical close-out procedure. Continued to conduct training classes to prepare inspectors for ACI Concrete Technician I certification. Finalized and transmitted Acromedia (Bechtel subcontractor on A640) Audit Report. Witnessed acceptance testing at Ayden



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Controls, Bechtel A640 subcontractor. Continued monitoring of Testing Lab (Smith-Emery) performance and costs. Continued surveillance of HDPE installation (A141, A165, A171 and A175) and witnessing of fire protection system hydrostatic tests at A165 and A175. Conducted field QA audit of lift drawings (A130 and A141) to verify conformance with review and approval process.

EQUAL OPPORTUNITY - Monitored Equal Opportunity reporting requirements for 27 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.

MANPOWER PERFORMANCE

The manpower performance for May is measured against the approved planned staffing for the 5th AWP. During May, the actual staff level was 205 vs. the planned staff level of 193. Therefore, the actual staff count for May was 12 over the planned staffing level. The staff breakdown by company was 137 for the Joint Venture firms and 68 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 May period had 160 available workhours/person. The plan provided for expenditure of 30,400 hours, including "as-required" manhours which would have generated a projected equivalent head count of 190.0 personnel at 160 hours/person. Actual hours expended were 31,753 which translates into a 198.456 equivalent head count at 160 hours/person including temporary personnel, resulting in the equivalent of 8.456 personnel over the plan.

Cumulative total hours incurred through May were 335,037 against a plan of 324,368 resulting in an over plan variance of 10,669 hours.

EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in May measured on a cost accrual basis under four categories - DBE, WBE and Minority and Women Affirmative Action was as follows:

- o Cumulative DBE participation for the Fifth Annual Work Plan through the month, measured against a total cost basis was 18.3%, 1.3% over the goal of 17%.
- o Cumulative WBE participation for the Fifth Annual Work Plan through the month, measured against a total cost basis was 4.6%, 1.6% over the goal of 3%.
- o Minority and Women Affirmative Action performance for the month exceeded the established goals of 17% and 8% by 20% and 0.3% respectively.



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SCHEDULE PERFORMANCE

- o Contractor Submittals - During this period, 339 submittals were received per contract number as follows: A112 (19), A130 (26), A135 (21), A135BH (15), A141 (37), A145 (25), A146 (8), A165 (83), A171 (21), A175 (20), A610/A115 (18), A612 (0), A615 (1), A616 (5), A620 (12), A630 (4), A640 (12), A710 (5), A732 (0), A740 (3); A745 (1); A750 (2) and A795 (0); of the 339 received this period plus the 206 carryover from April, 325 packages were processed and returned to the contractors; the balance of 220 remain in review.
- o Constructibility Reviews - Completed review for A117/100%, Yard Site Lighting and started review of A187/100%, Wilshire/Alvarado Station, Stage II.

COST PERFORMANCE - Fifth Annual Work Plan

- o Total incurred costs of \$1,476,145 for CM Direct Services (excluding General Condition Items) for the period were over the plan of \$1,432,056 by \$44,089. This variance results from the net effect of Other Direct Costs (ODCs) being over the plan by \$14,953 and labor expenditures (total PDCD and subcontractors) being over the plan by \$29,136.
- o The cumulative costs for Total CM Services (Including General Condition Items) incurred through May were \$15,728,859 against a plan of \$15,821,617 resulting in an under plan of \$92,758.
- o The May CPR indicates an estimate at completion for the 5th AWP (including General Condition Items) of \$17,505,517 versus a plan of \$17,625,378 for an underexpenditure of \$119,861.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$76,214 for the period were over the plan of \$44,192 for the period by \$32,022. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of \$893,303, which is over the plan of \$664,300 by \$229,003.



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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.


Melvin L. Polacek
Construction Manager

SECTION II

MANPOWER PERFORMANCE

MTA LIBRARY



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II. MANPOWER PERFORMANCE

This CPR for the month of May compares actual manpower to the planned manpower in the approved 5th AWP. Table II-1, Page 10, illustrates planned staff vs. actual staff and variances for May.

During May, personnel assignments/deletions included the addition of 1 Jr. Engr.-Change Control, 1 Inspector, 1 Electrical Engineer (as-required, A/R), and 1 Cost Engineer (as-required, A/R); and the deletion of 1 Sr. Secretary, 1 Data Technician-Documents Control, and 1 Jr. Engineer-Geotech.

For the May period, under the approved 5th AWP, the total planned staffing level (including regular and as-required classifications) is 193. The actual staff (including regular, as-required and temporary classifications) was 205 resulting in 12 over the plan. The current actual staff by company for the May period is as follows:

Company	Staff Level	Company	Staff Level
The Ralph M. Parsons Company	58	Jenkins, Gales & Martinez, Inc.	9
Dillingham Construction, Inc.	57	Kal Krishnan Consulting	2
De Leuw, Cather & Company	22	Martin & Huang International	5
Better Personnel Employment Services	10	North Pacific Construction Management	5
Construction Control Services Corporation	19	Ochoa & Sillas	-
Dames & Moore	1	Randolph & Tate Associates	-
D'Leon Consulting	1	Transmetrics	1
Engineering-Science, Inc.	3	WCI	3
Jacobs Associates	9		

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

The May period had 160 available workhours/person. The plan provided for an expenditure of 30,400 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 190.0 personnel @160 hrs/person. Actual hours expended were 31,753 which translates into an equivalent head count of 198.456 @ 160 hrs/person including temporary personnel, resulting in the equivalent of 8.456 personnel over the plan.



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The hours expended for the period were 31,753 versus a plan of 30,400. The 1353 manhours variance for the period is calculated as follows:

8.45625 equivalent staff over plan @ 160
hours/period in plan =

1353 hours

MAY MANHOUR VARIANCE TO PLAN

1353 hours

Cumulative total hours incurred through May were 335,037 against a plan of 324,368 resulting in an over plan variance of 10,669 hours. (Page 22)



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TABLE II-1 CONSTRUCTION MANAGEMENT STAFF COUNT - MAY
FIFTH ANNUAL WORK PLAN

Position	Phase II Construction Services			Phase II Construction Services		
	Regular/As-required/Temporary			Regular/As-required/Temporary		
	Planned	Actual	Variance	Planned (1)	Actual (2)	Variance
Construction Manager	1	1	0	1	1	0
Manager, Safety and Security	1	1	0	1	1	0
Safety Inspectors	1	1	0	1	1	0
Manager, Quality Assurance	2	2	0	2	2	0
Quality Assurance Engineer	1	1	0	1	1	0
QC Inspector	1	1	0	1	1	0
Secretary/Word Processing/Clerical/	15	17	2	15	17	2
Drafting/Courier	2	2	0	2	2	0
Labor Relations	0	0	0	0	0	0
Legal Counsel	0	0	0	0	0	0
Subtotal	22	25	3	22	25	3
Manager, Administration and Staff Support	1	1	0	1	1	0
Manager, Project Administration/Accounting	1	1	0	1	1	0
Senior Accountant	2	2	0	2	2	0
Office Manager	1	1	0	1	1	0
Arts Coordinator	0	0	0	0	0	0
Subtotal	4	4	0	4	4	0
Manager, Community Relations	1	1	0	1	1	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
(3) 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	2	4	2	2	4	2
File Clerk	1	2	1	1	2	1
Subtotal	16	19	3	16	19	3
DCM, Project Controls/Engineering Services	1	1	0	1	1	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
Claims Proc. Spec.	1	1	0	1	1	0
Data Technician	1	1	0	1	1	0
Lead Planner/Scheduler	1	1	0	1	1	0
Planner/Schedulers	6	8	2	6	8	2
Lead Estimator	1	1	0	1	1	0
Estimators	5	2	(3)	5	2	(3)
Sr. Data Technician	1	1	0	1	1	0
Computer Support	0	0	0	0	0	0
Subtotal	26	26	(0)	26	26	(0)
Manager, Contracts/Procurement	1	1	0	1	1	0
Sr. Contract Administrator	2	2	0	2	2	0
Subtotal	3	3	0	3	3	0
DCM, Operations	1	1	0	1	1	0
Manager, General Services	1	1	0	1	1	0
Lead Utilities Engineer	1	1	0	1	1	0
Chief of Surveys	1	1	0	1	1	0
Party Chief	1	1	0	1	1	0
Inspection Person	2	2	0	2	2	0
Road Person	1	1	0	1	1	0
Lead Environmental Engineer	1	1	0	1	1	0
Environmental Specialists	3	3	0	3	3	0
Engineer	0	0	0	0	0	0
Engineering Technician/Coordinator	1	1	0	1	1	0
Resident Engineers	9	10	1	9	10	1
Chief Inspectors	8	9	1	8	9	1
Sr. Inspectors/Inspectors	37	39	2	37	39	2
Office Engineers	11	12	1	11	12	1
Field Secretaries/Clerical	14	15	1	14	15	1
Manager, Systemwide Construction	1	1	0	1	1	0
Office Engineer	2	2	0	2	2	0
Resident Engineers	4	4	0	4	4	0
Secretary	2	2	0	2	2	0
Inspector	1	1	0	1	1	0
Subtotal	103	110	7	103	110	7
Totals	193	205	12	193	205	12

NOTES:

- (1) The "planned" staff count is taken directly from the RTD approved PDCD 5th 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 February 1, 1989, the Document Control Section, previously in the DCM, Project Controls/Engineering Services group, was transferred to the Manager, Administration and Staff Support group.



LOS ANGELES METRO RED LINE

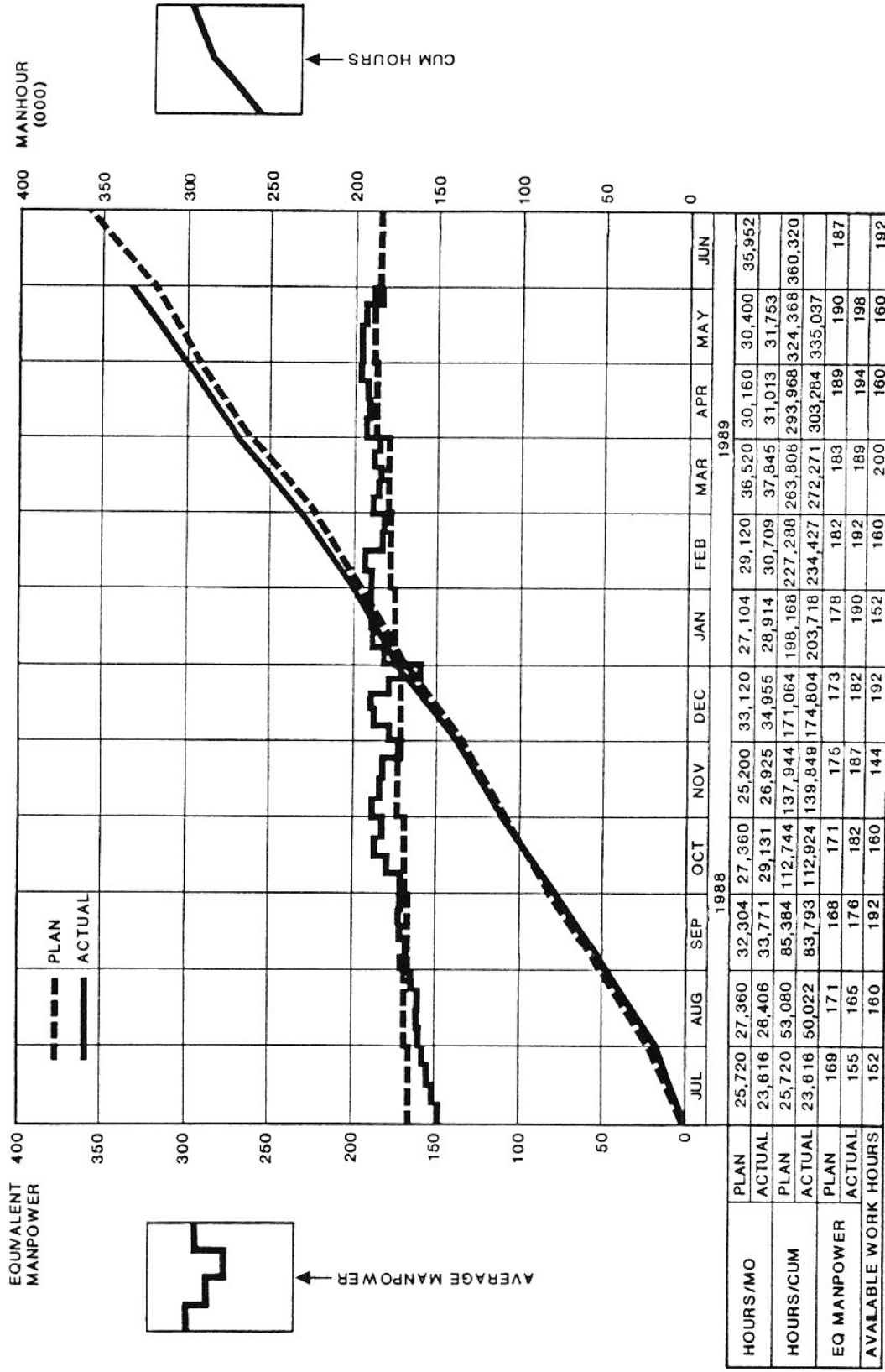
CONTRACT PERFORMANCE

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FIFTH ANNUAL WORK PLAN

PDCD

PERIOD MAY 1989



PDCD MANPOWER

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE
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PDCD

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FIFTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 1 OF 3

DESCRIPTION (NMRS)		1989											
		JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
MANHOURS BY FUNCTIONAL DEPARTMENT		TOTALS											
A Project Management and Secretarial	Plan	current	2,736	2,880	3,456	2,880	2,592	3,456	2,736	2,880	3,600	2,880	3,456
	Actual	cumulative	2,736	9,072	11,952	14,544	18,000	20,736	23,616	27,216	30,096	32,976	36,432
	Actual	cumulative	3,052	3,037	3,625	3,619	3,625	3,274	3,414	4,154	3,716	3,558	3,137
C Facilities Construction Management	Plan	current	9,400	10,160	11,984	10,320	9,536	12,368	10,320	11,120	14,200	11,840	14,208
	Actual	cumulative	9,400	19,560	31,544	41,864	51,400	63,768	74,088	85,208	99,408	111,248	123,408
	Actual	cumulative	9,697	10,832	13,438	12,086	11,439	15,144	12,354	13,150	16,050	12,949	13,276
E Systemwide Construction Management	Plan	current	1,304	1,200	1,584	1,200	1,392	1,616	1,456	1,360	1,840	1,520	1,776
	Actual	cumulative	1,304	2,504	4,088	5,288	6,680	8,296	9,752	11,112	12,952	14,472	15,992
	Actual	cumulative	895	1,062	1,378	1,252	1,046	1,375	1,047	1,075	1,463	1,357	1,495
F General Services	Plan	current	1,984	2,080	2,464	1,920	1,744	2,272	1,832	1,920	2,360	1,920	2,272
	Actual	cumulative	1,984	4,064	6,528	8,448	10,192	12,464	14,296	16,216	18,576	20,496	22,416
	Actual	cumulative	2,083	2,408	3,642	2,644	2,554	3,051	2,172	2,155	2,888	2,370	2,066
K Project Controls	Plan	current	4,184	4,480	5,264	4,560	4,032	5,456	4,336	4,560	5,840	4,720	5,616
	Actual	cumulative	4,184	8,664	13,928	18,488	22,520	27,976	32,312	36,872	42,712	47,432	52,152
	Actual	cumulative	2,882	3,203	3,498	3,743	3,275	4,353	3,765	4,050	5,306	4,326	4,854
L Contracts/Procurement	Plan	current	456	480	576	480	432	576	456	480	600	480	576
	Actual	cumulative	456	936	1,512	1,992	2,424	3,000	3,456	3,936	4,536	5,016	5,496
	Actual	cumulative	445	471	509	407	388	447	385	422	447	354	442
M Engineering Services/Systems Integration	Plan	current	2,976	2,960	3,536	2,960	2,672	3,536	3,128	3,600	4,280	3,520	3,968
	Actual	cumulative	2,976	5,936	9,472	12,432	15,104	18,640	21,768	25,368	29,648	33,168	36,888
	Actual	cumulative	2,440	3,048	4,247	3,784	3,063	3,762	3,329	3,847	4,164	3,194	3,358
N Community Relations	Plan	current	304	320	384	320	288	384	304	320	400	320	384
	Actual	cumulative	304	624	1,008	1,328	1,616	2,000	2,304	2,624	3,024	3,344	3,664
	Actual	cumulative	293	290	310	249	292	248	204	204	375	304	233
	Plan	current	293	583	944	1,254	1,503	1,795	2,043	2,247	2,622	2,926	3,159
	Actual	cumulative	293	583	944	1,254	1,503	1,795	2,043	2,247	2,622	2,926	3,159
	Actual	cumulative	293	583	944	1,254	1,503	1,795	2,043	2,247	2,622	2,926	3,159

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD MAY 1989

FIFTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 2 OF 3

DESCRIPTION (MHS)	1989											
	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
TOTALS												
P Safety and Security	Plan	456	480	576	480	432	576	456	480	480	480	576
	Actual	456	936	1,512	1,992	2,424	3,000	3,456	4,536	5,016	5,496	6,072
	Cumulative	272	320	352	344	416	512	424	544	424	432	432
Q Quality Assurance	Plan	304	480	384	370	208	464	224	320	240	240	464
	Actual	304	784	1,168	1,488	1,896	2,160	2,384	3,104	3,344	3,584	4,048
	Cumulative	240	263	441	406	352	481	406	411	552	510	510
R Project Administration	Plan	912	960	1,152	960	864	1,152	912	960	960	960	1,312
	Actual	912	1,872	3,024	3,984	4,848	6,000	6,912	7,872	10,032	10,992	12,304
	Cumulative	752	798	1,327	905	742	1,021	865	910	870	807	807
S EO Administration	Plan	304	320	384	320	288	384	304	400	320	320	384
	Actual	304	624	1,008	1,328	1,616	2,000	2,304	3,024	3,344	3,664	4,048
	Cumulative	152	152	152	192	272	360	261	387	262	352	352
T Labor Relations	Plan	0	0	0	0	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0	0	0	0	0
	Cumulative	0	0	0	0	0	0	0	0	0	0	0
U Legal Counsel	Plan	0	0	0	0	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0	0	0	0	0
	Cumulative	0	0	0	0	0	0	0	0	0	0	0
Subtotal (HOURS)												
Plan	25,320	26,800	31,744	26,720	24,480	32,400	26,464	28,560	35,800	29,360	29,680	35,152
Actual	25,320	52,120	83,864	110,584	135,064	167,464	193,928	222,488	258,288	287,648	317,328	352,480
Cumulative	21,203	25,684	32,979	28,645	26,415	34,432	28,530	30,368	37,466	30,686	31,387	329,815



**FIFTH ANNUAL WORK PLAN
PPCD MANHOURS BY FUNCTIONAL DEPARTMENT**

TOTALS

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2
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SECTION III

EQUAL OPPORTUNITY PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

POCD

PERIOD MAY 1989

III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Fifth Annual Work Plan for May measured on the basis of accrued total cost was 17.1%, 0.1% above the 17% goal. The cumulative percentage for the Fifth Annual Work Plan was 18.3%, 1.3% above the 17% goal (Figure 1).

WBE Participation

The monthly WBE participation for the Fifth Annual Work Plan for May, measured on the basis of accrued total cost was 4.4%, 1.4% above the 3% goal. The cumulative percentage for the Fifth Annual Work Plan was 4.6%, 1.6% above the 3% goal (Figure 2).

Affirmative Action Analysis

The Affirmative Action Analyses for minorities and women, as indicated in Figures 3 and 4, exceeds the established goals of 17% for minorities, and 8% for women by 20% and 0.3% respectively. Minority count adjusted to correct a previous miscalculation in the accumulated total to date.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

FIFTH ANNUAL WORK PLAN

PDCD

PERIOD MAY 1989

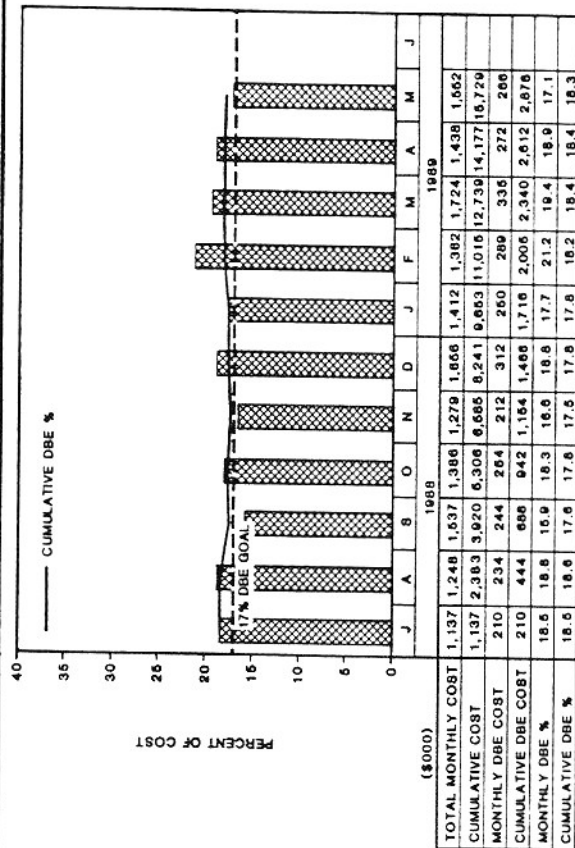


FIGURE 1 - DBE ANALYSIS

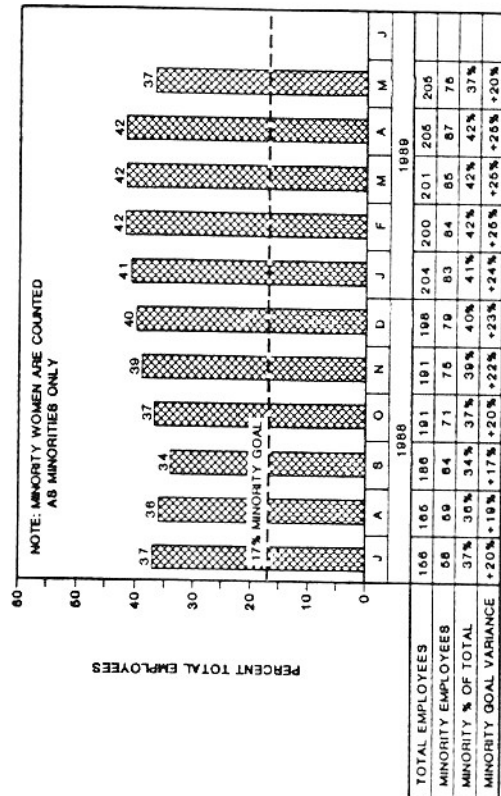


FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS

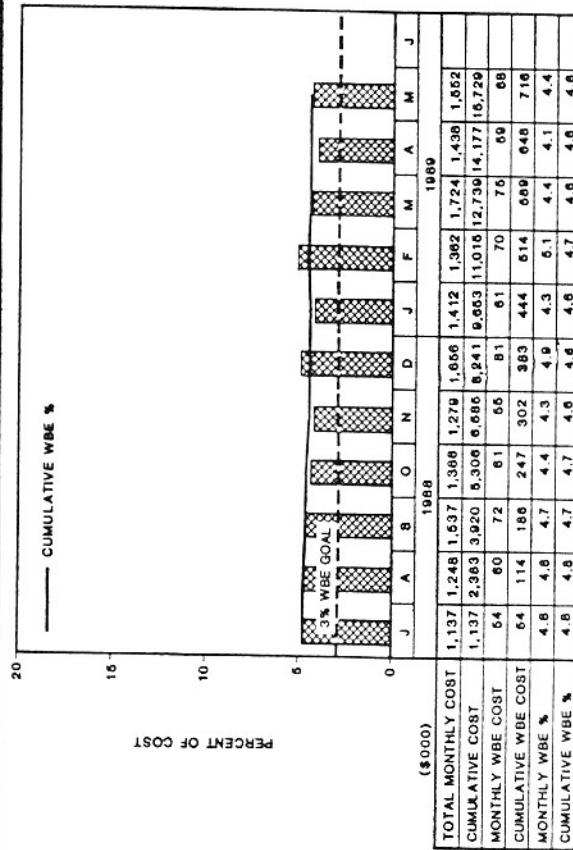


FIGURE 2 - WBE ANALYSIS

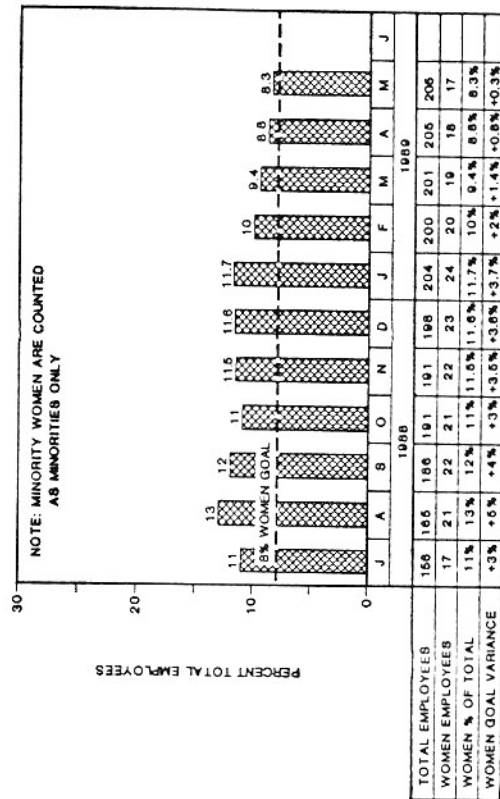


FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

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SECTION IV

SCHEDULE PERFORMANCE

MTA LIBRARY



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

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IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 339 submittals were received from the Construction Contractors and 206 were carried over from April. 325 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 (220) are still under review.

Contracts	Carryover From April	No. of Submittals Received in May	Submittals Processed Within 30 Days	Submittals Processed In Over 30 Days	Carryover to June
A112	9	19	10	3	15
A130	25	26	27	0	24
A135	7	21	17	0	11
A135BH	25	15	24	1	15
A141	16	37	25	6	22
A145/A145A	12	25	21	0	16
A146	0	8	1	0	7
A165	56	83	77	3	59
A167	0	1	0	0	1
A171	18	21	20	4	15
A175	13	20	20	1	12
A610/A115	4	18	17	0	5
A612	1	0	1	0	0
A615	0	1	0	0	1
A616	1	5	0	0	6
A620	5	12	12	1	4
A630	4	4	6	0	2
A640	2	12	8	6	0
A710	3	5	5	1	2
A732	1	0	0	0	1
A740	1	3	3	0	1
A745	1	1	2	0	0
A750	0	2	1	0	1
A795	2	0	2	0	0
Total	206	339	299	26	220



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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 for A117/100%, Yard Site Lighting and Started A187/100%, Wilshire/Alvarado Station, Stage II.

Training Programs

(None)



LOS ANGELES METRO RED LINE

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DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD 4-29-89 TO 5-26-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-117	YARD SITE LIGHTING	DWGS	DC100%		03-31-89	05-05-89	05-10-89		*NOT SCHEDULED, IN-HOUSE TARGET DATE.
A-117	YARD SITE LIGHTING	SPEC	DC100%		03-31-89	05-05-89	05-10-89		*NOT SCHEDULED, IN-HOUSE TARGET DATE.
**									
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	DWGS	FS100%	06-01-89	05-22-89	06-12-89			ADVANCE DWGS.
**									

3 records listed. 3 values listed.

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

NOTE : Based on 6-1-89, MRTC Design Review Schedule





SECTION V

COST PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD MAY 1989

V. COST PERFORMANCE

FIFTH ANNUAL WORK PLAN

Total incurred costs of \$1,476,145 (Page 25) for CM Direct Services (without General Condition Items) for the period were over the plan of \$1,432,056 by \$44,089. This variance results from the net effect of Other Direct Costs (ODCs) being over the plan by \$14,953 and Labor expenditures (total PDCD and subcontractors) being over the plan by \$29,136.

The cumulative costs for Total CM Services (including General Condition Items) incurred through May were \$15,728,859 against a plan of \$15,821,617 resulting in an under plan expenditure of \$92,758 (Page 25).

The May CPR forecasts (Page 25) an estimate at completion of \$17,505,517 versus a plan of \$17,625,378 for an underexpenditure of \$119,861. Extracting the General Condition Items and reporting them separately, the May CPR forecasts a CM Direct Services estimate at completion of \$16,612,214 versus a plan of \$16,961,078 for an under plan expenditure of \$348,864.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$76,214 were over the plan of \$44,192 for the period by \$32,022. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of \$893,303 versus a plan of \$664,300, for a projected overplan expenditure of \$229,003. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$41.47/hr. compared to a plan rate of \$42.36 (-)/hr., resulted in a difference of \$0.89 (-) per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE	IMPACT ON MAY COSTS
8.456 equivalent staff over plan @ 160 hours at \$42.3552/hour =	\$ 57,307



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD MAY 1989

RATE VARIANCE

198.456 actual staff equivalent @ 160 hours
@ \$0.08872/hour =

(28,171)

MAY COST VARIANCE TO PLAN

\$ 29,136

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were over the plan for the period by a net of \$14,953 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS	
	BUDGET	ACTUAL	VARIANCE	BUDGET	ACTUAL
(1)Field Office Expenses	60,324	54,945	- 5,379	656,511	578,371
(2)Office Equipment	16,371	62,832	-46,461	165,529	155,935
(3)Travel & Relocation	28,550	8,514	-20,036	296,450	134,578
(4)Vehicles & Maintenance	5,189	3,436	- 1,753	87,375	47,105
(5)Reproduction	5,980	3,569	- 2,411	68,448	55,572
(6)Telephone & Telex	7,396	5,603	- 1,793	84,656	59,475
(7)Computer Operation Support	3,242	5,354	2,112	35,662	25,148
(8)Gross Receipt Tax	7,893	9,000	1,107	84,587	84,408
(9)Field Equipment	9,513	6,158	- 3,355	96,187	53,919
S/T ODC's	144,458	159,411	14,953	1,575,405	1,194,511
					-380,894

NOTES

- (1) Field Office Expenses - underexpenditure due to underrun in equipment maintenance and supplies.
- (2) Office Equipment - overexpenditure due to the purchase of Personal Computers and related software.
- (3) Travel and Relocation - Due to lower than planned expenditures combined with an accrual adjustment.
- (4) Vehicles & Maintenance - underexpenditure due to lower than planned maintenance costs.
- (5) Reproduction - underexpenditure due to lower than planned reproduction.
- (6) Telephone and Telex - underexpenditure due to lower communications cost.
- (7) Computer Operation Support - 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 - underexpenditure due to lower than planned expenditures.



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD MAY 1989

CM COST PERFORMANCE - MAY 1989
FIFTH ANNUAL WORK PLAN

(\$000)

	PLANNED	ACTUAL	VARIANCE	%
PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH APRIL	\$ 7931	\$ 7984	\$ 53	0.67%
CURRENT MONTH	808	871	63	7.80%
CUMULATIVE THROUGH MAY	\$ 8739	\$ 8855	\$ 116	1.33%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH APRIL	\$ 1431	\$ 1,035	\$ (396)	-27.67%
CURRENT MONTH	145	160	15	10.34%
CUMULATIVE THROUGH MAY	\$ 1576	\$ 1,195	\$ (381)	-24.18%
SUBCONTRACTORS				
CUMULATIVE THROUGH APRIL	\$ 4,508	\$ 4,422	\$ (86)	-1.91%
CURRENT MONTH	479	445	(34)	-7.10%
CUMULATIVE THROUGH MAY	\$ 4,987	\$ 4,867	\$ (120)	-2.41%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH APRIL	\$ 13,870	\$ 13,441	\$ (429)	-3.09%
CURRENT MONTH	1,432	1,476	44	3.07%
CUMULATIVE THROUGH MAY	\$ 15,302	\$ 14,917	\$ (385)	-2.52%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH APRIL	\$ 476	\$ 736	\$ 260	54.62%
CURRENT MONTH	44	76	32	72.73%
CUMULATIVE THROUGH MAY	\$ 520	\$ 812	\$ 292	56.15%
TOTAL CM SERVICES				
CUMULATIVE THROUGH APRIL	\$ 14,346	\$ 14,177	\$ (169)	-1.18%
CURRENT MONTH	1,476	1,552	76	5.15%
CUMULATIVE THROUGH MAY	\$ 15,822	\$ 15,729	\$ (93)	-0.59%
HOURS				
CUMULATIVE THROUGH APRIL	293,968 hrs	303,284 hrs	9,316 hrs	3.17%
CURRENT MONTH	30,400	31,753	1,353	4.45%
CUMULATIVE THROUGH MAY	324,368 hrs	335,037 hrs	10,669 hrs	3.29%

* OFF BY 1 DUE TO ROUNDING

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LOS ANGELES METRO RED LINE

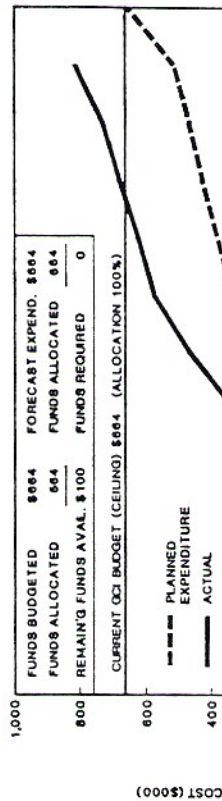
PDCD

CONTRACT PERFORMANCE

REPORT

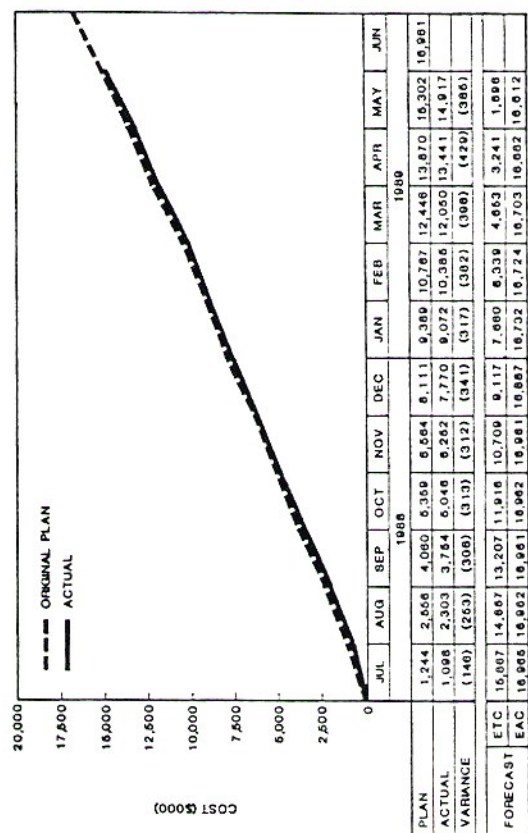
FIFTH ANNUAL WORK PLAN

PERIOD MAY 1989



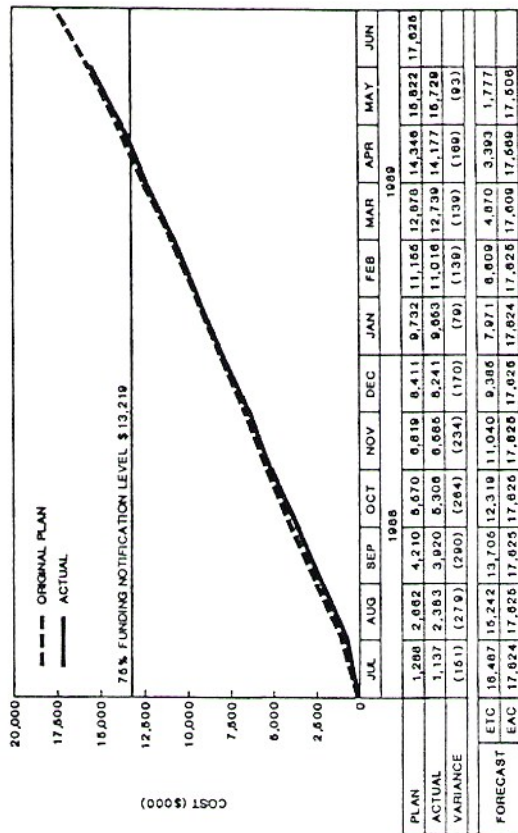
	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PLANNED EXPEND.	44	105	160	211	265	299	343	388	432	476	520	564
ACTUAL	36	80	189	260	333	470	581	631	689	736	812	
VARIANCE	(6)	(26)	16	49	76	171	238	243	257	280	292	
FORECAST	ETC	620	663	496	403	331	268	311	270	217	182	81
EAC	669	663	664	663	664	738	892	901	906	887	894	

GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PLAN	1,244	2,656	4,060	6,359	8,664	10,969	13,274	15,579	17,884	20,189	22,494	24,799
ACTUAL	1,098	2,303	3,764	6,048	8,262	10,476	12,690	14,904	17,118	19,332	21,546	23,760
VARIANCE	(146)	(263)	(308)	(311)	(312)	(311)	(311)	(311)	(311)	(311)	(311)	(311)
FORECAST	ETC	16,007	14,687	13,207	11,916	10,709	9,502	8,295	7,088	5,881	4,674	3,467
EAC	16,905	16,962	16,961	16,962	16,961	16,967	16,732	16,724	16,703	16,682	16,662	16,642

CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PLAN	1,286	2,692	4,210	5,670	7,130	8,590	10,050	11,510	12,970	14,430	15,890	17,350
ACTUAL	1,137	2,363	3,920	5,306	6,692	8,078	9,464	10,850	12,236	13,622	15,008	16,394
VARIANCE	(149)	(329)	(290)	(264)	(238)	(212)	(212)	(212)	(212)	(212)	(212)	(212)
FORECAST	ETC	16,407	15,242	13,706	12,318	11,040	9,762	8,484	7,206	5,928	4,650	3,372
EAC	17,924	17,926	17,925	17,926	17,926	17,926	17,924	17,924	17,924	17,924	17,924	17,924

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

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD MAY 1989

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING MAY 26, 1989 REPORT SUMMARIZED BY RESPONSIBILITY

GENERAL CONDITION ITEMS

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS		ESTIMATE		AT COMPLETION DOLLARS	
	BUDGET	ACTUAL	BUDGET	ACTUAL	TO COMPL	VARIANCE	BUDGET	ESTIMATE
B GUARD SERVICES	7,750	6,120	-1,630	65,941	-19,309	7,750	93,000	73,691
D FIELD OFFICE TRAILERS	0	0	0	0	-34,000	0	34,000	0
E CLEAN-UP OF FIELD SITES	0	1,675	1,675	16,688	16,688	0	0	18,688
F WTF EXPENSES	0	0	0	24,703	24,703	0	0	24,703
G SIGNS AND BARRICADES	0	-2,000	-2,000	40,317	40,317	0	0	40,317
X CONSTRUCTION PHOTO	3,525	4,995	1,470	50,955	12,180	6,525	42,300	57,480
Y TESTING PROGRAM	32,917	65,424	32,507	613,424	251,337	65,000	395,000	678,424
S/T ALLOCATED	44,192	76,214	32,022	812,028	291,916	81,275	564,300	893,303
Z UNALLOCATED	0	0	0	0	0	0	100,000	0
S/T GEN. COND. ITEMS	44,192	76,214	32,022	812,028	291,916	81,275	664,300	893,303



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE

REPORT

PDCD

PERIOD MAY 1989

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING MAY 26, 1989 REPORT SUMMARIZED BY RESPONSIBILITY

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS			ESTIMATE TO COMPL	AT COMPLETION DOLLARS	
	BUDGET	ACTUAL	VAR.	BUDGET	ACTUAL	VARIANCE		BUDGET	ESTIMATE
A PROJECT MANAGEMENT	82,933	89,970	7,037	949,581	917,796	-31,785	96,916	1,049,100	1,014,712
C FAC. CONSTRUCTION	450,231	499,588	49,357	4,606,613	5,106,635	500,022	604,042	5,131,561	5,710,677
E SYSTEMWIDE CONST	51,287	64,424	13,137	545,784	553,678	7,894	76,485	605,480	630,163
F GENERAL SERVICES	85,389	86,807	1,418	984,584	1,114,851	130,267	99,217	1,084,962	1,214,068
K PROJECT CONTROLS	215,231	205,482	-9,749	2,323,315	1,819,025	-504,290	248,116	2,581,921	2,067,141
L PROCUREMENT	21,331	19,911	-1,420	244,242	210,786	-33,456	26,003	269,840	236,789
M ENG. SVCS./SYST. INTEGR.	184,794	171,565	-13,229	1,910,084	2,058,907	148,823	190,860	2,108,035	2,249,767
N COMMUNITY RELATIONS	12,181	9,534	-2,647	139,470	123,374	-16,096	16,343	154,087	139,717
P SAFETY	22,141	20,470	-1,671	253,512	204,582	-48,930	26,949	280,081	231,531
Q QUALITY ASSURANCE	16,322	24,517	8,195	206,370	232,064	25,694	25,319	232,452	257,383
R PROJECT ADMIN.	33,723	31,279	-2,444	386,131	371,469	-14,662	42,369	436,598	413,838
S EQUAL OPPORTUNITY	14,803	14,640	-163	169,497	119,369	-50,128	16,268	187,260	135,637
T LABOR RELATIONS	10,702	262	-10,440	21,405	2,492	-18,913	0	21,405	2,492
U LEGAL	0	0	0	60,000	3,887	-56,113	0	80,000	3,887
S/T LABOR-BRDN & OH	1,201,068	1,238,449	37,381	12,800,588	12,838,915	38,327	1,468,887	14,222,782	14,307,802
1 FIELD OFFICE EXPENSES	60,324	54,945	-5,379	656,511	578,371	-78,140	48,725	718,100	627,096
2 OFFICE EQUIPMENT	16,371	62,832	46,461	165,529	155,935	-9,594	22,619	181,900	178,554
3 TRAVEL & RELOCATION	28,550	8,514	-20,036	296,450	134,578	-161,872	14,170	325,000	148,748
4 VEHICLES & MAINT.	5,189	3,436	-1,753	87,275	47,105	-40,170	5,009	93,600	52,114
5 REPRODUCTION	5,980	3,569	-2,411	58,448	55,572	-2,876	7,185	75,600	62,757
7 TELEPHONE & TELEX	7,396	5,603	-1,793	84,656	59,475	-25,181	5,000	93,500	64,475
8 COMPUTER OPERATION SUPPT.	3,242	5,354	2,112	35,662	25,148	-10,514	3,000	38,900	28,148
9 GROSS RECEIPT TAX	7,893	9,000	1,107	84,587	84,408	-179	9,511	94,230	93,919
A FIELD EQUIPMENT	9,513	6,158	-3,355	96,187	53,919	-42,268	7,513	105,700	61,432
S/T ODC'S	144,458	159,411	14,953	1,575,405	1,194,511	-380,894	122,732	1,726,530	1,317,243
W PDCD FEE	50,000	50,000	0	550,000	550,000	0	45,000	595,000	595,000
X S/C FEE	36,530	28,285	-8,245	375,512	333,405	-42,107	58,764	416,766	392,169
S/T FEES	86,530	78,285	-8,245	925,512	883,405	-42,107	103,764	1,011,766	987,169
S/T CM DIRECT SVCS	1,432,056	1,476,145	44,089	15,301,505	14,916,831	-384,674	1,695,383	16,961,078	16,612,214
S/T GEN. COND. ITEMS	44,192	76,214	32,022	520,112	812,028	291,916	81,275	664,300	893,303
TOTAL CM SERVICES	1,476,248	1,552,359	76,111	15,821,617	15,728,859	-92,758	1,776,658	17,625,378	17,505,517
PERCENT OF BUDGET EXPENDED = 89%									
NEGATIVE VARIANCE INDICATES UNDERRUN									

SECTION VI

ADDITIONAL ACTIVITIES

PERFORMED IN MAY



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VI. ADDITIONAL ACTIVITIES PERFORMED IN MAY

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) Conducted field surveillance of welding activities in support of Contracts A135, A145, A165, A171 and shop fabrication surveillance at Paramount Steel, COWELCO, and Angeles Steel.
- (2) Finalized "Preparation of As-Built Drawings Procedure" based on PDCD responsibility for "as-built" drawings preparation.
- (3) Met with A112 R.E. to review proposed contract physical close-out procedure.
- (4) Continued to conduct training classes to prepare inspectors for ACI Concrete Technician I certification.
- (5) Finalized and transmitted Acromedia (Bechtel subcontractor on A640) Audit Report.
- (6) Witnessed acceptance testing at Ayden Controls, Bechtel A640 subcontractor.
- (7) Continued monitoring of Testing Lab (Smith-Emery) performance and costs.
- (8) Continued surveillance of HDPE installation (A141, A165, A171 and A175) and witnessing of fire protection system hydrostatic tests at A165 and A175.
- (9) Conducted field QA audit of lift drawings (A130 and A141) to verify conformance with review and approval process.

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, A175, A610/A115, A612, A615, A616, A620, A640, A710, A732, A740, A745, A750 and A795.



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- (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, A144, A145, A165 and A175.

D. Contracts and Procurement

- (1) Prepared amendments to increase funding for subcontracts with Martin and Huang and Construction Control Services Corporation to cover remaining AWP-5 requirements.
- (2) Prepared and submitted for District approval an Amendment to the Construction Photographic Services Subcontract to incorporate Change Orders No. 2 and 3, to increase AWP-5 funding and to remove unexpended AWP-4 funding.
- (3) Received District approval and issued Amendments to increase AWP-5 funding for temporary personnel services subcontract with WCI.
- (4) Following District approval, issued purchase orders for 12 PC's and related software.
- (5) Issued Request for Quotations for renewing annual agreement covering reproduction services.

E. Community Relations

- (1) Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141.
- (2) Coordinated mitigation of traffic concerns for tenants along Hill St. affected by A141 and A145 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 traffic plans.
- (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 with coordination of the "hole thru" media event for Civic Center Station.
- (5) Assisted RTD in coordination for the LAUPT 50th Anniversary Celebration event.
- (6) Coordinated safety and security meeting with LAPD.
- (7) Provided assistance to PDCD/RTD in coordinating site visits and responding to media requests.
- (8) Processed 24 inquiries/complaints.



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F. Safety and Security

- (1) Performed daily construction site safety, health and security surveillances on a two shift basis 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.

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, and A165.
- (3) Continued coordination of MOS-1 inspections with LADOT.
- (4) Processed a total of 18 Traffic and Utilities related submittals.
- (5) Continued monitoring of ground water and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
- (6) Continued monitoring Discharge Monitoring Stations at the Ballona Creek and Los Angeles River.
- (7) Prepared and submitted March Discharge Monitoring Report (DMR) to the California Regional Water Quality Board (CRWQCB).
- (8) Prepared and submitted March LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (9) Coordinated and inspected installation of water treatment facilities at A141.
- (10) Inspected asbestos abatement at the Equitable Building, A145.
- (11) Reviewed and approved final asbestos submittal and reviewed clearance report for asbestos abatement at REA building, A135.
- (12) Completed and submitted closure report for 4 tank abandonments at A165.
- (13) Properly abandoned underground storage tanks at A145.
- (14) Monitored removal, relocation and disposal of contaminated soil at A175.
- (15) Coordinated acceptance of contaminated soil from A146 at Class II landfill.

MTA LIBRARY



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- (16) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175.
- (17) Continued location survey at yards and shop contracts.
- (18) Checked slabs poured at A141 and A175 excavation.
- (19) Continued performing as-built cross section of AR Tunnel invert pour (A171).
- (20) Continued checking arch form alignment AL tunnel (A171).
- (21) Performed tunnel alignment check AR tunnel (A-141).
- (22) Continued tunnel alignment check at AL tunnel (A146).
- (23) Checked layout of A165 station.

H. Engineering Services

- (1) Completed site geologic inspection of A146 AL tunnel and began compiling geologic profile for use in predicting the geology along the AR tunnel alignment.
- (2) Coordinated with MRTC to develop an acceptable method for taking tunnel liner distortion measurements in Contract A146, where the shield configuration precludes use of the specified method.
- (3) Recommended and coordinated the reduction of the Contractor's Civic Center Station strain gauge readings from once per day to once per week.
- (4) Reviewed the A130 Contractor's method of orienting the horizontal chemical grout holes to be drilled beneath the Santa Ana Freeway.
- (5) Inspected drilling of A130 pre-grouting proof test sample holes.
- (6) Completed reviewing and cross checking results of Proctor testing performed by Smith-Emery Company.
- (7) Completed data gathering phase of the A141 Design Verification Study Plan, Task C.
- (8) Researched question of whether sub-ballast material is acceptable as crushed aggregate material throughout the A610/115 job site.
- (9) Responded to 98 requests for information or documentation clarification from various contractors.
- (10) Processed 8 field inquiries with MRTC to obtain clarification of design requirements.
- (11) Coordinated with the FLSC Fire Chiefs, MRTC, and A146 Contractor regarding fire protection system at cross passages.
- (12) For Contract A112 - Approved 5 Contractor submittals for HVAC details, emergency trip stations, switches, receptacles, cover plates, first floor plumbing plans, and finish carpentry sample particle board.



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Approved-as-Noted 7 Contractor submittals for metal decking, fire sprinkler calculations, sump pump water heaters, diesel generator data, HVAC operation & maintenance manual, and wheel truing pit car puller.

Rejected 1 Contractor submittal for welding procedures & welder qualifications.

(13) For Contract A130 - Approved 14 Contractor submittals for manganese anodes data sheet, shoring for jack pits, fire protection product data for expansion joints & temperature ratings, alternative tieback/soldier pile data, design of end bulkhead, pipe supports for utilities, piped utilities G5 traffic valve, rebar mill test reports for slurry wall panels, rebar mill certificates, box invert, and HDPE qualified personnel.

Approved-as-Noted 8 Contractor submittals for slurry wall layout & design drawings, utilities concrete vault, utilities backflow preventer, instrumentation resumes organizational charts & forms, traffic control drawings, cast-in-place underpinning piles/lift drawings, and shoring systems drawings for two cell box.

Rejected 3 Contractor submittals for lift drawing for west retaining wall, dewatering data, and vent systems data sheets.

Reviewed For Record Only 2 Contractor submittals for "proposed Compaction Grouting Program Commercial Street Vicinity, and inclinometer #4 installation notes & soil samples.

(14) For Contract A135 - Approved 8 Contractor submittals for light standards, rebar mill test reports for slurry wall panel, rebar mill test reports for platform, concrete pull box, platform #3 canopy extension, temporary vehicular bridge, and various Certificates of Compliance.

Approved-as-Noted 3 Contractor submittals for temporary railroad bridge, tieback & anchor design calculations for slurry wall, and pullbox for ductbank.

Rejected 6 Contractor submittals for fire system welding procedures, service walkway precast concrete unit, 36" I.D. reinforced manhole specification sheets & certifications, demolition of REA Bldg., manhole plan & details, and monthly status report.



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- (15) For Contract A135BH (Baggage Handling) - Approved 11 Contractor submittals for concrete inserts, mechanical parts & manufacture data for custom conveyors, fire proofing material certifications, 6" fire protection check valves, conveyor anchoring detail, aggregate, and material certifications for fasteners and metal decking.
- Approved-as-Noted 9 Contractor submittals for HVAC layout in basement and street level, basement piping, material certifications, panel boards/circuit breakers, structural steel modifications, anchor bolt details, welding procedures, and ceramic tile.
- Rejected 5 Contractor submittals for temperature control, drinking fountain catalog data, elastometric coating, unit substation, and 225 KVA transformer.
- (16) For Contract A141 - Approved 17 Contractor submittals for rebar reinforcement drawings, concrete lift drawings, grating grounding sketch, split couplings catalog data, cast metal auxiliary junction box data, chemical admixture for concrete, ground resistance test results, reinforced concrete pipe product design, excavation support for blast relief shafts, pipe assembly details for 36" vent line, concrete inserts, backfill & base slab mix designs, and storm drainage system certificates of compliance.
- Approved-as-Noted 13 Contractor submittals for tunnel cross passage support system, various rebar drawings, various concrete lift drawings, air test procedure for station drain piping, NBRS backfill support plan and bulkhead report, ground surface settlement points, structural backfill test reports, and rebar certificates.
- Reviewed for Record Only 1 Contractor submittal for monthly status & narrative.
- (17) For Contract A145 - Approved 7 Contractor submittals for fire protection coating for pipe sleeves, haul route for contaminated materials, calculations for long span lagging, rebar bent supplement, sanitary sewer line C temporary support, revised limits of lagging, and manufacturer's data and samples.
- Approved-as-Noted - 12 Contractor submittals for HDPE panel layout drawings, HDPE weld test method, revised CPM baseline (Part II) schedule, welder's qualifications, base slab bulkhead form & screed details, lift drawings for inverts, rebar drawings and grade beam details, column form drawing & calculations, mezzanine falsework & forms, and exterior wall form at mezzanine level.



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Reviewed For Record Only 2 Contractor submittals for Equitable Bldg. electrical drawing, and concrete mix data for slurry backfill.

(18) For Contract A146 - Approved 1 Contractor submittal for temporary vent shaft details.

(19) For Contract A165 - Approved 31 Contractor submittals for various lift drawings, various rebar drawings for exterior wall and base slab, test procedures for fire protection, mechanical piping welder qualifications, PA speaker mounting details, split couplings, Certificates of Compliance for fire protection, acid resistant coating for Battery Room, and rebar mill test reports.

Approved-as-Noted 46 Contractor submittals for sewer specification; various lift drawings for roof slab, LRT platform, interior walls, exterior walls, and base slab; various rebar drawings for base slab and interior walls, miscellaneous HVAC data & specification sheets, excavation support system east bulkhead - 7th Street, Certificate of Compliance nitrile gasket, and lift drawings for Roosevelt Bldg. footings and columns.

Rejected 2 Contractor submittals for fire protection data, and excavation support system for 7th St. west bulkhead.

Reviewed For Record Only 1 Contractor submittal for water quality discharge log sheet.

(20) For Contract A171 - Approved 14 Contractor submittals for concrete anchors, electrical material channel clamps, wet standpipe system, cold galvanized coating repair compound, wire & cables, wet standpipe welding procedures, invert concrete repair, fluorescent lamps for Type X tunnel lighting fixtures, liquid-tight flexible conduit, and welding procedures for backing rings.

Approved-as-Noted 7 Contractor submittals for tunnel light fixtures Type X, wet standpipe system, cathodic protection materials test box, fixture wire, and walkway lift drawings.

Rejected 3 Contractor submittals for revised Part II Schedule update, tunnel lighting fixture - Type X, and wet standpipe system.



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(21) For Contract A175 - Approved 12 Contractor submittals for rebar drawings, trackwork lateral turnout, samples of elastomer pad material, hardware for lifts formwork, welding procedures for structural steel, revised rebar details, rebar ties at column lines, welding certificates and masonry walls.

Approved-as-Noted 3 Contractor submittals for reinforcing drawings, concrete mix design, and column junction boxes and electrical conduit.

Rejected 5 Contractor submittals for temporary ventilation, column forms, soffit rebar, and concrete mix design.

Reviewed For Record Only 1 Contractor submittal for schedule modifications.

(22) For Contract A610/A115 - Approved 11 Contractor submittals for standard joint bar; #10 lateral turnout, switch drawing, closure rail, and frog drawing; Wilshire/Alvarado lateral turnout, switch drawing, closure rail, and frog drawing; protective covering for concrete sewer manholes, and revised Part II CPM Schedule.

Approved-as-Noted 2 Contractor submittals for Monthly Progress Status report, and ground test procedures.

Rejected 4 Contractor submittals for casing and sleeves, traffic control @ 4th St. Santa Fe Ave. for storm drain line, CWR destressing procedure for yard trackage, and 2 rail thermometer.

(23) For Contract A612 - Approved 1 Contractor submittal for proposed test procedures.

(24) For Contract A620 - Approved 12 Contractor submittals for barchart schedule & narrative, receiver coil interface details, track circuit design wayside loops, code rate generator P.C. board, overspeed governor details, brake assurance details, battery data & installation details, track circuit qualification test reports (partial), Public Utilities Commission (CPUC) requirements for vehicle ATP equipment, EMC test reports, and factory acceptance test reports for AW signals.

Approved-as-Noted 1 Contractor submittal for factory acceptance test reports for speed fraters.

(25) For Contract A630 - Approved-as-Noted 1 Contractor submittal for test program.



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Rejected 5 Contractor submittals for design test report, test report for 38KV circuit breaker, AC/DC conversion equipment, design test reports for aluminum enclosed bus duct, and AD/DC conversion equipment & auxiliary power transformers.

(26) For Contract A640 - Approved 5 Contractor submittals for drawing tree & list, heat loads for RCC & TC&C equipment, EMC control plan, PA manufacturer's literature, and control area floor plans.

Approved-as-Noted 3 Contractor submittals for radio manufacturer's literature, closed circuit T.V. sub-system, and preliminary design review data package mobile radio sub-system.

Rejected 5 Contractor submittals for radio frequency power documentation, FCT display plans & sequences, Halon calculations, preliminary design data package for CTS telephone, and PA schematics & wiring diagrams.

Reviewed For Record Only 1 Contractor submittal for power battery sizing calculations.

(27) For Contract A710 - Approved 4 Contractor submittals for escalator configuration drawing, escalator wires & cable catalog cuts, escalator layout, and samples of elevator fixtures.

Approved-as-Noted 2 Contractor submittals for elevator wiring diagrams, and doors & frames for elevator hoistway.

(28) For Contract A740 - Approved-as-Noted 2 Contractor submittals for test procedure for motors, and progress report and schedule.

Rejected 1 Contractor submittal for fan silencers test report.

(29) For Contract A745 - Approved 1 Contractor submittal for QA inspection & test checklist for subcontractors.

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



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- (30) For Contract A750 - Approved-as-Noted 1 Contractor submittal for final report for handling treatment & disposal of hazardous materials.
- (31) For Contract A795 - Approved 2 Contractor submittals for barchart schedules, and Contractor's schedule of values.

I. Project Controls

- (1) Processed Change Requests: A112-CR-119, A112-CR-120, A112-CR-121, A112-CR-122, A130-CR-026, A135-CR-044, A135-CR-047, A135-CR-048, A135-CR-049, A141-CR-110, A141-CR-115, A141-CR-040, A145/145A-CR-140, A146-CR-034, A146-CR-035, A165-CR-025, A165-CR-064A, A165-CR-067, A165-CR-068, A165-CR-070, A165-CR-071, A165-CR-072, A165-CR-076, A165-CR-077, A165-CR-078, A165-CR-079, A175-CR-045, A610/115-CR-064, A610/115-CR-066, and A610-CR-068.
- (2) Processed Change Notices: A130-CN-010, A130-CN-016, A130-CN-018, A141-CN-058, A141-CN-068, A145/145A-CN-038, A145/145A-CN-140, A145/145A-CN-041, A145/145A-CN-042, A146-CN-025, A146-CN-027, A165-CN-011, A165-CN-012, A165-CN-019, A165-CN-020, A165-CN-021, A165-CN-023, A165-CN-024, A165-CN-027, A165-CN-029, A175-CN-019, A175-CN-029, A610/115-CN-033, A620-CN-026, A630-CN-001, A640-CN-003A, A640-CN-005, and A710-CN-001.
- (3) Processed Change Orders: A112-CO-008B, A112-CO-042A, A112-CO-043A, A112-CO-049, A112-CO-050, A112-CO-051, A112-CO-053, A130-CO-004, A130-CO-015A, A130-CO-020, A130-CO-021, A135-CO-001G, A135-CO-002S, A135-CO-002T, A135-CO-002U, A135-CO-002V, A135-CO-019, A135-CO-021, A141-CO-010F, A141-CO-010G.1, A141-CO-010M.1, A141-CO-033A, A141-CO-039A, A141-CO-042, A141-CO-044, A141-CO-045, A145/145A-CO-042A, A145/145A-CO-078, A145/145A-CO-085, A145/145A-CO-086, A145/145A-CO-087, A146-CO-021, A146-CO-021F, A146-CO-021G, A146-CO-021H, A165-CO-003A, A165-CO-012, A165-CO-019, A165-CO-019A, A165-CO-020A, A165-CO-027, PT.1, A165-CO-029D, A165-CO-032A, A165-CO-035, A175-CO-024C, A175-CO-025A, A175-CO-026, PT.II, A175-CO-027, A175-CO-028, A175-CO-029, A175-CO-030, A610/115-CO-014D, A610/115-CO-025A, A610/115-CO-028, A610/115-CO-033, A610/115-CO-039, A610/115-CO-041, A610/115-CO-043, A610/115-CO-044, A610/115-CO-045, A610/115-CO-046, A610/115-CO-047, A610/115-CO-049, A616-CO-011, A620-CO-005, A620-CO-007, and A640-CO-003A.
- (4) Processed through TRACS, executed Change Orders: A112-CO-004C, A130-CO-014, A130-CO-015, A135-CO-011, A135-CO-012, A141-CO-010G/010G1, A141-CO-039, A144-CO-011, A144-CO-013, A144-CO-014, A144-CO-015, A144-CO-016, A145-CO-076, A145-CO-077, A145-CO-077A, A145-CO-082, A146-CO-021C, A146-CO-021D, A146-CO-021E, A146-CO-022, A165-CO-018, A175-CO-021, A175-CO-023, A175-CO-024, A610-CO-035, and A745-CO-003.



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- (5) Processed Potential Claims: A145-PC-093, A165-PC-004, A165-PC-005, A165-PC-014, A165-PC-023, A165-PC-024, A165-PC-025, A165-PC-027, A165-PC-029, A165-PC-032, A165-PC-036, A165-PC-044, A165-PC-047, A165-PC-049, A165-PC-050, A165-PC-052, A165-PC-053, A165-PC-056, A165-PC-057, A165-PC-058, A165-PC-060, A165-PC-061, A165-PC-062, A165-PC-065, A165-PC-066, A165-PC-071, A165-PC-103, A165-PC-107, A165-PC-119, A610/115-PC-032 and A610/115-PC-036.
- (6) Processed Change Technical Evaluations: A112-CR-117, A112-CR-119, A112-CR-120, A112-CR-121, A135-CR-047, A141-CR-109, A141-CR-111, A145-145A-CR-135, A145-145A-CR-137, A145-145A-CR-138, A165-CR-018, A165-CR-042, A165-CR-050, A165-CR-066, A165-CR-068, A165-CR-070, A175-CR-045, A610/115-CR-048, A610/115-CR-061, A610/115-CR-065, A610/115-CR-066, A610/115-CR-068, and A620-CR-207.
- (7) Processed Force Account Change Packages: A145-145A-CO-019, A145-145A-CO-020, A145-145A-CO-033, A146-CO-012, A146-CO-013, A146-CO-013A, A165-CO-021, A165-CO-029A, A171-CO-008, A175-CO-003, A175-CO-010A, A175-CO-014, A175-CO-015A, A751-CO-007, A753-CO-003, A754-CO-001, and A755-CO-005.
- (8) Processed Monthly Payment Estimates for 19 Contracts: A112, A130, A135, A141, A144, A145, A146, A165, A171, A175, A610/A115, A616, A620, A710, A732, A740, A745, and A750.
- (9) Completed a Close-out reconciliation on 10 Force Account Change Orders: A145-CO-011, A145-CO-019, A145-CO-020, A145-CO-033, A145-CO-049, A146-CO-013, A146-CO-018, A165-CO-001, A165-CO-013, and A175-CO-003/003A.
- (10) Continued testing PC TRACS for use on the project.
- (11) Reviewed Contractor Monthly Progress Reports.
- (12) Prepared inputs to RTD Monthly Status Report.
- (13) Reviewed A167 Part I Schedule Submittal - Rejected.
- (14) A112-CR-068 Lighting system conduits. Reviewed scope of work and quantities with Contractor.
- (15) A130-CR-016 Prepared evaluation of Contractors proposal.
- (16) A130-CR-025 Prepared estimate, and assisted in a negotiated settlement with Contractor.
- (17) A130-CR-016 Reviewed estimate, contractor proposal, and negotiated settlement with contractor.
- (18) A135-CR-004 Continued review of proposals and changes for LAUPT Baggage Handling Facilities.
- (19) A135-CR-005 Reviewed contractor proposal for REA building demolition.
- (20) A135-CR-011 Received west entrance drawings, made preliminary review.
- (21) A135-CR-029 Reviewed concrete water cement ratio change with RTD and Contractor, breakdown for payment.
- (22) A135-CR-032 Began preparation of estimate for police room LAUPT.
- (23) A141-CR-040 Began review of incoming electrical service room change.
- (24) A141-CR-097A Completed estimate additional strain gauges on struts.
- (25) A145-CR-122, 123 & 128 Prepared estimates, escalator wellway, engagement access, and elevator machine room.



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- (26) A145-CR-141 Reviewed scope of work and prepared estimate for station grounding General System.
- (27) A146 Met with Contractor and RTD re: tunnel equipment rates for Force Accounts, began rebuttal to Contractor questions and objections.
- (28) A165-CR-010 Prepared revised electrical estimate, miscellaneous changes.
- (29) A165-CR-044 Began preparation of final estimate Hydraulic elevator lines and conduits.
- (30) A165-CR-049 Reviewed final design east bulkhead, provided data to Resident Engineer for negotiations.
- (31) A165 Reviewed numerous contractor proposals, provided data to Resident Engineer.
- (32) A165 Prepared detailed takeoff of decking in support of final pay quantities.
- (33) A620-CR-018 Completed estimate for deletion of ACTV coaxial cable installation.
- (34) A620-CR-008 Prepared estimate for additional corrosion control requirements.
- (35) A620-CR-020 Reviewed contractor estimate for trap circuit deletion.
- (36) A710-CR-002, 003 Prepared R.O.M. estimates for elevator cab changes.
- (37) Prepared revised instructions on Finding-of-Fact preparation, Claims Log Update, Change Request Preparation and Force Account processing.
- (38) Met with DOT audit team and provided requested information.

J. CM Meetings in May 1989

Date	Agency/Company	General Subject
April 27	RTD/PC	Delay Claims/Documentation
May 1, 8, 15, 22	RTD	CCB Meetings
May 2, 9, 19	RTD/TSP/Elec. Sub.	A130-CR-026 Negotiations Commun. Duct bank
May 2	Cal-OSHA, RTD, DIA	The Return of Cal-OSHA
May 2, 15	LAPD	Safety at Metro Red Line sites and RTD & PDCD office areas
May 2	RTD/QA	Close-out Procedures
May 2, 9, 16, 23	RTD/MRTC	Project Status Review
May 3	RTD	A620-CR-008, 018, 020 Review estimates and negotiate position
May 3, 24	RTD/ MRTC	Project Controls Meeting



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<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
May 3	RTD, MRTC, LACoSD, LAPD, BAH, RTD Police	General Project Security, including operations
May 3	RTD, MRTC, LACoFD, BAH	General Project Safety, including operations
May 3, 10	LADOT	Weekly LADOT MOS-1 Inspection
May 4	CRWQCB	Metro Red Line Discharges and Permit Renewal Application
May 4	RTD/TSP	A135-CR-029, CR-005 Review changes concrete water cement ratio and REA building demolition
May 4	A165	Smith-Emery Non Conformance
May 5	RTD/CC	Configuration Control
May 5	American Society of Civil Engineers	Metro Red Line presentation
May 5, 12, 19	RTD	CM Progress Review
May 5	RTD/OCPM	Claims Log Update
May 8	MRTC	A141 Settlement Indicator over storm drain
May 8	MRTC	A130 Chemical Grouting
May 8, 9	Engineering News Record	ENR article on Metro Red Line
May 10	Flakt	A745 Plant Inspection of Equipment Assembly
May 10, 23	Contractors, DIA, RTD	Project Safety Review
May 11	Argonaut, LAFD	AGC of California Safety Committee New Cal-OSHA and Environmental Legislation, General Safety
May 11	Contractors, Brokers, Insurance Co.	A171 Settlements around fire station at access shaft
May 11	L.A. City Fire Chiefs	On the spot WPS Review (A135 BH)
May 11	COWELCO	A135 PacBell Master Agreement Work
May 11	SCRTD	A171/A175 Claims
May 12	RTD/OCPM	Prepare for Congressman Lehman tour to A141 and A165
May 15	RTD/Government Affairs	Metro Blue Line briefing
May 16	LACTC, RTD	



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<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
May 17	RTD, MRTC	Claims Seminar
May 17	RTD/QA	Safety Certification A121
May 18	LACTC	Metro Blue Line tour
May 18	RTD/ Shank	A146 Review tunnel equipment rates for Force Account
May 22	Paramount Steel	Inspection of Tunnel Rings for A145 and Stud Welding
May 22	FLSC Fire Chiefs, S-0	A146/A171 Fire Protection System at Cross Passages
May 23	RTD/TSP	A130-CR-026 netotiated settlement agreement, diff. site conditions
May 24	RTD/TSP	A135-CR-004 LAUPT baggage handling, settled rough carpentry proposal
May 24	BAH, RTD, MRTC	Safety Certification Review
May 23	RTD	UMTA Tour
May 25	RTD/ LGCA	Prepare for G. Swanson tour
May 25	A640 Communication	Acceptance Test Aydin Controls Ft. Washington, PA
May 26	RTD	Congressman Lehman tour
May 26	Scott Mech (T-S Sub-contractor)	A167 Air Handling Equipment
May 25	RTD	A135-CR-004 LAUPT baggage handling, review position on closure walls

SECTION VII

SUMMARY OF ACTIVITIES

PLANNED FOR JUNE



LOS ANGELES METRO RED LINE

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VII. SUMMARY OF ACTIVITIES PLANNED FOR JUNE 1989

A. Administration and Accounting

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

B. Quality Assurance

- (1) Continue to review welding activities and conduct fabrication inspections as required to support facilities and system procurement contracts.
- (2) Continue to monitor testing and test laboratory activities.
- (3) Continue to participate in All2 close-out activities.
- (4) Conduct "hands on" training session for inspectors preparing for ACI Concrete Technician 1 certification. Administer test to approximately 30 inspectors.
- (5) Finalize QA audit/surveillance of inspection reports and preparation of red-lined drawings at field sites.
- (6) Perform QA audit of All2 safety certification documentation.
- (7) Conduct QA audits of prime contractor and subcontractor activities on contracts A640, A740 and A745.

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, A732, A740, A745, A750 and A795.

D. Contracts and Procurement

- (1) Upon receipt of District approval, issue purchase orders for rental/purchase of OVA meter and to establish publication update services in support of QA.
- (2) Upon receipt of District approval, issue an Amendment to the Construction Photographic Services Subcontract to incorporate Change Orders No. 2 and 3, to increase AWP-5 funding and to remove unexpended AWP-4 funds.



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- (3) Prepare and submit for District approval Amendments for all Associate Subcontracts and other Subcontracts covering requirements for the Sixth Annual Work Plan.
- (4) Issue Requests for Quotations to renew annual equipment maintenance agreements and, after evaluation and receipt of District approval, issue Blanket Agreements for Photographic and Reproduction Services for AWP-6.
- (5) Issue Request for Proposal for temporary personnel services covering the 6th AWP.

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/Governmental 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.

F. Safety and Security

- (1) Continue to monitor safety, health and security activities on all active construction sites on a two shift basis.
- (2) Provide specialized underground safety training/indoctrination for PDCD staff, SCRTD, MRTC and visitors.
- (3) Continue to monitor activities of the Security Guard Service and the Site Clean-up Service subcontractors.
- (4) Upon receipt, review A167 Safety/Security Plan and proposed Safety Representative.
- (5) Upon receipt, review replacement Safety Representatives for the A146 and A610/A115 Projects.

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 ground water 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 April and May Discharge Monitoring Reports (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (7) Prepare and submit April and May LA River Dissolved Solids Reports to Central and West Basin Water Replenishment District (CWBWRD).
- (8) Review and approval final asbestos submittal and clearance report for asbestos abatement by others at Roosevelt Building, A165.
- (9) Complete and submit closure report for tank abandonment at A-145.
- (10) Continue monitoring removal, relocation and disposal of contaminated soil at various project sites.
- (11) Prepare and submit application packages for permanent and temporary NPDES discharge stations.
- (12) Continue to monitor instrumentation, building and ground settlement marks, various contracts.
- (13) Continue to check Contractor's control points and layout.
- (14) Continue to perform survey tasks as requested by R.E.'s.
- (15) Continue to perform as-built survey of tunnels for Contracts A141 and A146.
- (16) Continue location surveys in shop and yard contracts.
- (17) Continue to check slab pours for Contracts A141, A165 and A175.
- (18) Perform high precision control survey through AL and AR Tunnels (A171).
- (19) Continue to check arch form alignment for AL Tunnel (A171).

H. Engineering Services

- (1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
- (2) Continue to process Contractor's 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.
- (3) Continue production of A161 as-built drawings.
- (4) Continue to track A145 geology and instrumentation data as part of A141 Design Criteria Verification Study, Task B.
- (5) Complete interim study report for A141 Design Criteria Verification Study Task C.



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- (6) Complete the "as-predicted" geologic profile for the A146 AR tunnel.
- *(7) Complete constructibility review for Contract A187 Wilshire/Alvarado Station Stage II final documents.

I. Project Controls

- (1) Process Monthly Payment Estimates for all active contracts.
- (2) Process all the executed Change Orders through TRACS
- (3) Continue close-out reconciliations for Force Account Change Orders.
- (4) Plan for PC TRACS implementation.
- (5) Input Contract A167 into TRACS.
- (6) Review Monthly Contractor Progress Reports.
- (7) Prepare Scheduling inputs to RTD Monthly Status Report.
- (8) Review A167 Part I/II Schedule Submittal.
- (9) Review A610 Part II Schedule Revision.

* See Page 44.



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DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS 5-27-89 TO 6-30-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	DWGS	FS100%	06-01-89	05-22-89	06-12-89			ADVANCE DWGS.
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	SPEC	FS100%	06-01-89		06-12-89			

**

2 records listed. 2 values listed .

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

NOTE : Based on 6-1-89, MRTC Design Review Schedule



SECTION VIII

SUBCONTRACTOR/CONSULTANT

STATUS

MTA LIBRARY



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CONTRACT PERFORMANCE REPORT

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VIII. SUBCONTRACTOR/CONSULTANT STATUS

The following 5th 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

MAY 26, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSIST REQUESTED	CONSIST RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
1-SC-3369-1 BETTER PERSONNEL EMPLOYMENT SERVICES												
	AMEND. NO. 11	08/03/88	04/08/88	06/08/88	07/25/88	06/13/88	06/13/88	06/14/88	06/11/88	\$420,632	08/11/88	FIFTH AWP
	CHANGE ORDER NO. 4	N/A	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.												
	AMEND. NO. 11	08/03/88	04/08/88	06/08/88	07/25/88	06/17/87	06/20/88	06/27/88	08/15/88	\$1,482,039	08/31/88	FIFTH AWP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	11/28/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
	AMEND. NO. 12	N/A	N/A	N/A	N/A	05/15/89		N/A	N/A	\$1,617,039		INCREASES FUNDS
3-SC-3369-1 DAMES & MOORE												
	AMEND. NO. 10	08/03/88	04/08/88	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	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
4-SC-3369-1 ENGINEERING-SCIENCE												
	AMEND. NO. 10	08/03/88	04/08/88	06/20/88	07/25/88	07/06/88	07/15/88	07/18/88	08/12/88	\$228,002	08/15/88	FIFTH AWP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	12/07/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
	AMEND. NO. 11	12/30/88	N/A	N/A	**	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												
	AMEND. NO. 10	08/03/88	04/08/88	07/15/88	07/25/88	08/02/88	08/19/88	08/24/88	09/16/88	\$133,484	09/16/88	FIFTH AWP (TERMINATED)
6-SC-3369-1 JACOBS ASSOCIATES												
	AMEND. NO. 13	08/03/88	04/08/88	06/09/88	07/25/88	06/22/87	06/28/88	06/30/88	08/15/88	\$536,419	08/16/88	FIFTH AWP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	11/04/88	12/06/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
7-SC-3369-1 JENKINS, GALES & MARINEL, INC.												
	AMEND. NO. 13	08/03/88	04/08/88	06/08/88	07/25/88	07/18/88	07/29/88	07/29/88	08/23/88	\$738,465	08/23/88	FIFTH AWP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE

**IN PROCESS

Parsons-Dillingham-De Leuw, Cather



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FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

MAY 26, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
9-SC-3369-1	RAYTIN & 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	\$485,299	08/18/88	FIFTH AMP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	10/06/88	10/17/88	N/A	N/A	N/C	10/06/88	REVISED IPR
	AMEND. NO. 12	N/A	N/A	N/A	N/A	10/31/88	11/02/88	N/A	N/A	N/C	10/31/88	ADMINISTRATIVE
						05/24/89		N/A	N/A	\$534,659		INCREASES FUNDS
9-SC-3369-1	NORTH PACIFIC CONSTRUCTION MANAGEMENT											
	AMEND. NO. 13	08/03/88	04/08/88	06/29/88	07/25/88	07/18/88	07/29/88	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-3369-1	UCHOA & 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	\$79,600	08/15/88	FIFTH AMP
11-SC-3369-1	RANDOLPH & TATE ASSOCIATES											
	AMEND. NO. 7	08/03/88	04/08/88	04/10/88	N/A	07/20/88	08/08/88	08/08/88	08/18/88	\$10,000	08/18/88	FIFTH AMP
15-SC-3369-1	MUESER RUTLEDGE CONSULTING ENGINEERS (JAMES GOULD, P.E.)											
	AMEND. NO. 6	09/23/88	N/A	06/15/88	N/A	06/21/88	06/21/88	06/23/88	06/12/88	\$20,000	06/12/88	FIFTH AMP
18-SC-3369-1	GEO GRAY/ PHOTOGRAPHY											
	AMEND. NO. 3	06/13/88	N/A	N/A	N/A	08/18/88	08/19/88	07/01/88	08/18/88	\$42,300	08/22/88	FIFTH AMP
	CHANGE ORDER NO. 2	N/A	N/A	N/A	N/A	07/13/88	07/20/88	N/A	N/A	N/C	07/20/88	ADMINISTRATIVE
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	05/10/89	05/10/89	N/A	N/A	N/C	05/10/89	ADDS ITEMS
	AMEND. NO. 4							05/19/89		\$55,000		INCREASES FUNDS
19-SC-3369-1	KONK CENTER, INC.											
	AMEND. NO. 5	05/25/88	N/A	N/A	N/A	08/12/88	08/26/88	06/27/88	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	02/09/89	05/01/89	\$78,000	05/05/89	INCREASES FUNDS
	AMEND. NO. 8	05/22/88	N/A	N/A	N/A	05/22/89		05/01/89	05/11/89	\$110,000		INCREASES FUNDS

**IN PROCESS

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD MAY 1989

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

MAY 26, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUISITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	AMOUNT	DATE EXECUTED	REMARKS
21-SC-3369-1	SMITH ENERGY CO.											
AMEND. NO. 3		06/13/88	N/A	N/A	07/25/88	08/23/88	08/29/88	06/16/88	08/29/88	\$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		04/15/89	N/A	N/A	*	04/05/89	04/05/89	02/15/89	04/03/89	\$595,000	04/05/88	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	\$83,000	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	\$56,310	N/A	EXER YR OPT
33-SC-3369-1	P. E. ENOACOTT (CONSULTING AGREEMENT)	05/16/88	N/A	N/A	N/A	06/16/88	07/05/88	07/06/88	08/16/88	\$61,000	08/16/88	FIFTH AMP
34-SC-3369-1	BASMACTION-DARNELL INC. (COMPLETED)											
35-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
36-SC-3369-1	STARLITE SAFETY SUPPLIES (COMPLETED)											
37-SC-3369-1	KAL KRISHNAM	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	02/23/89	N/A	N/A	N/A	\$94,130		RATE ADDITIONS
38-SC-3369-1	EDWARD D. GRAY (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	UTLEW 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	\$99,075	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

**IN PROCESS

Parsons-Dillingham-De Leuw, Cather





SECTION IX

CONSTRUCTION PROGRESS PHOTOS



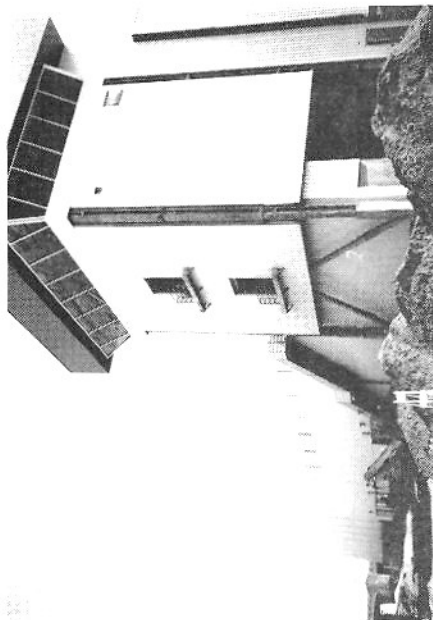
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

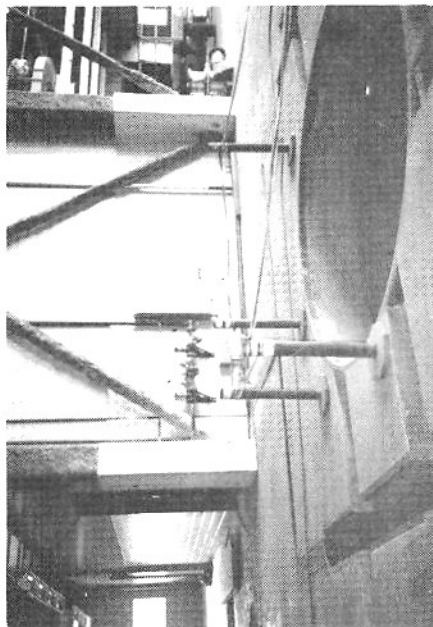
PDCD

PERIOD MAY 1989

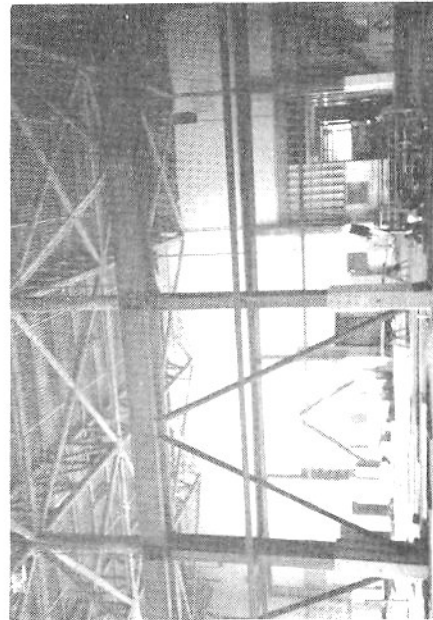
MAIN SHOP BUILDING CONTRACT A112



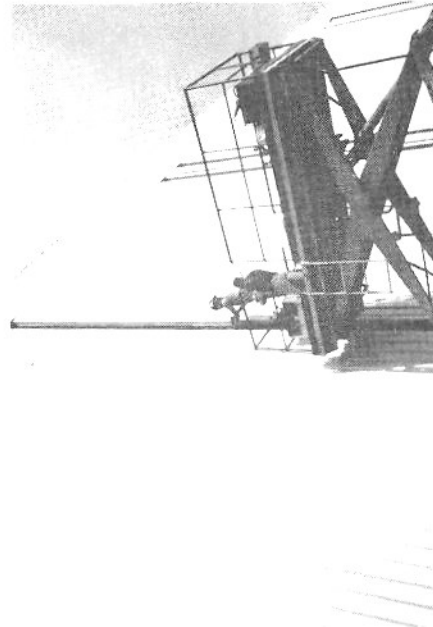
CONTROL TOWER - SUBSTANTIALLY COMPLETE



TURNTABLE 124-2F PIT SUBSTANTIALLY COMPLETE.
NOTE RAIL POCKETS, WALL AND BACKFLOW PREVENTER



LINE D - SIDING COMPLETE TO LINE 5.
NOTE JIB CRANE ON SLAB



COLUMN COVER BEING INSTALLED ON "B" LINE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

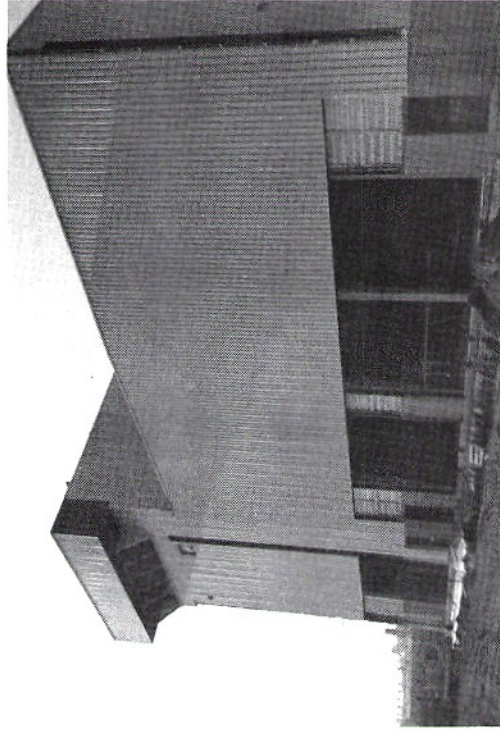
PDCD

PERIOD MAY 1989

MAIN SHOP BUILDING CONTRACT A112 (Contd)



FRONT VIEW OF MAIN SHOP BUILDING (WEST SIDE)
SHOWING MAIN ENTRANCE



NORTHSIDE OF BUILDING SHOWING CONTROL TOWER
AND S & I PIT ENTRANCES



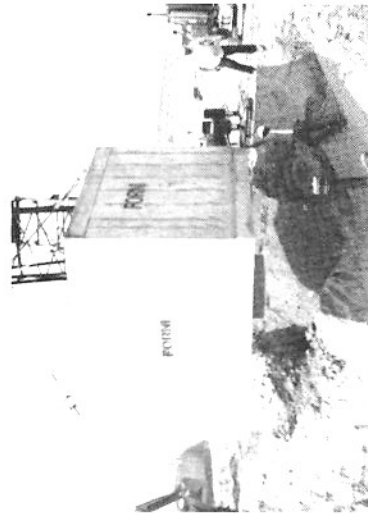
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD MAY 1989

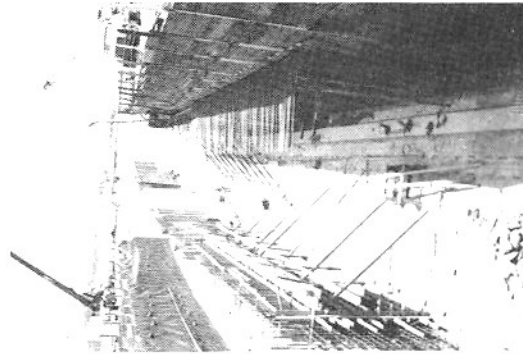
YARD LEADS & TRANSFER ZONE CONTRACT A130



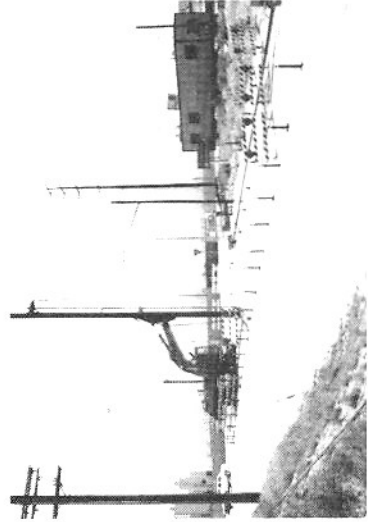
INSTALLING VAULT FOR
COMMUNICATION DUCT BANK



"U" WALL STRUCTURE -
RETAINING WALLS COMPLETE



PLACING CONCRETE IN BOX
STRUCTURE WALLS



DRILLING HOLES FOR CHEMICAL GROUT
STABILIZATION

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

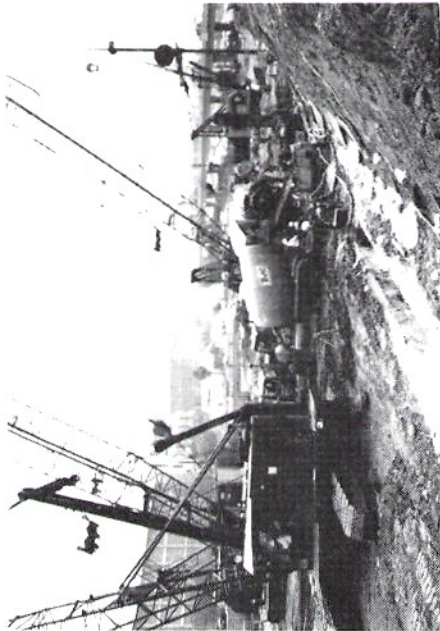
PDCD

PERIOD MAY 1989

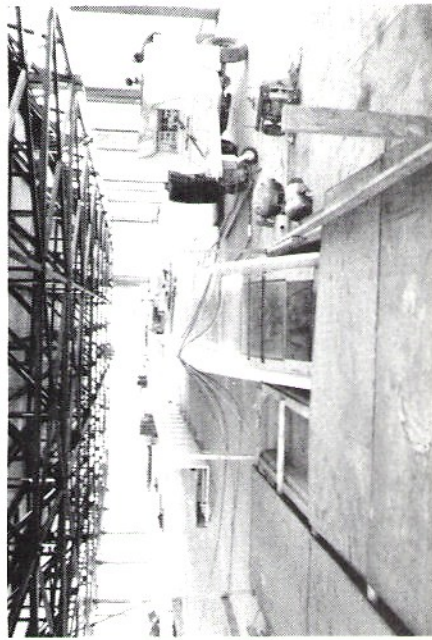
UNION STATION CONTRACT A135



INSTALLATION OF CABLE IN NEW PULL BOX #7
WITHIN LAUPT TRACKYARD



PLACING CONCRETE FOR SLURRY WALL PANEL
IN PHASE I STAGE I SECTION



CONVEYOR INSTALLATION AT TRACK LEVEL IN
THE BAGGAGE HANDLING FACILITY



DEMOLITION OF UTILITY TUNNEL, PASSENGER RAMPS
AND PLATFORMS WITHIN LAUPT TRACKYARD

Parsons-Dillingham-De Leuw, Cather



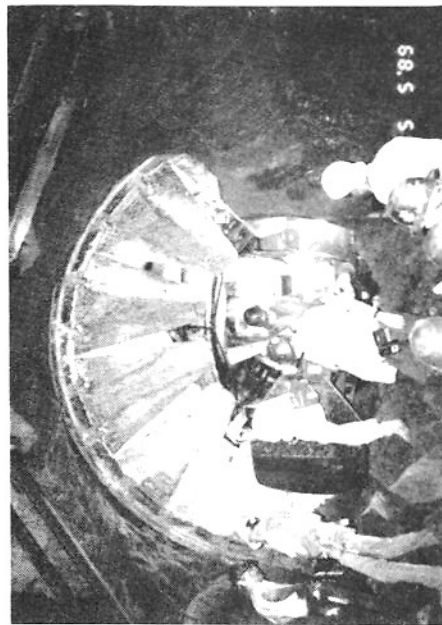
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

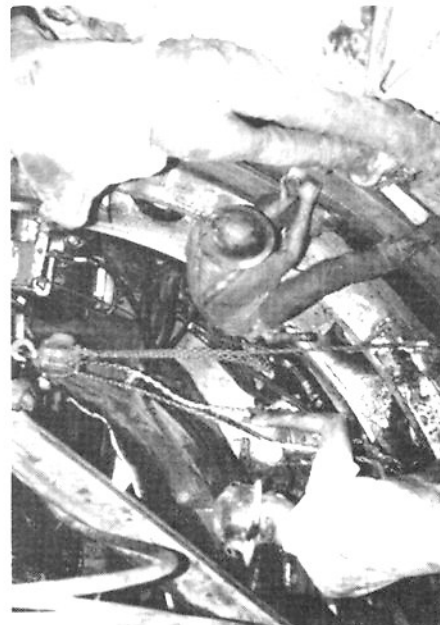
PDCD

PERIOD MAY 1989

CIVIC CENTER STATION AND TUNNEL CONTRACT A141



BREAK THRU OF AIR TUNNEL INTO NORTH END OF
CIVIC CENTER STATION



INSTALLING TUNNEL SUPPORT RING IN AIR TUNNEL
NORTH CIVIC CENTER STATION



MOVING TUNNELING MACHINE THROUGH S CURVE TO
AL TUNNEL AT SOUTH END OF CIVIC CENTER STATION

MTA LIBRARY



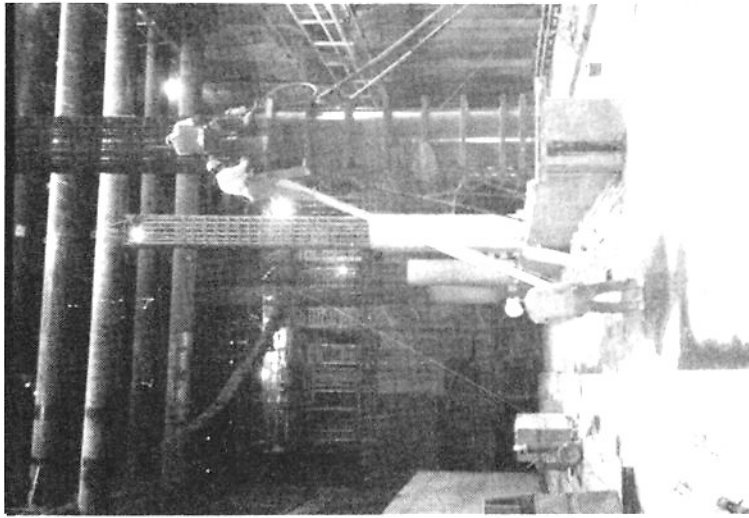
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

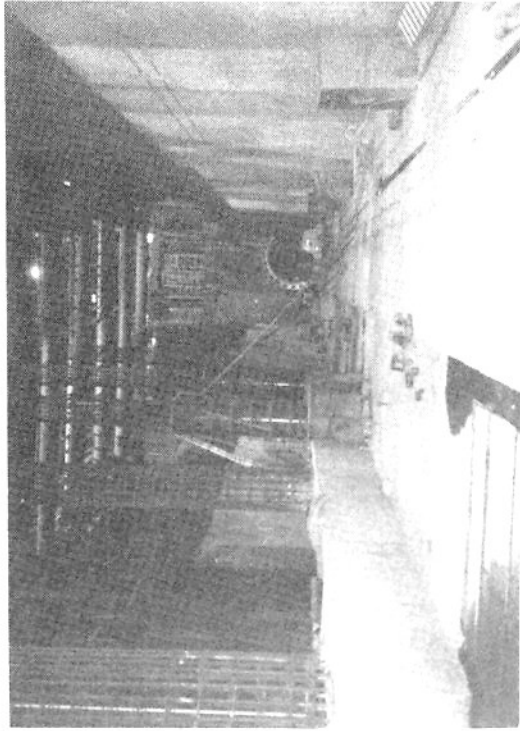
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PERIOD MAY 1989

CIVIC CENTER STATION AND TUNNEL CONTRACT A141 (Contd)



POURING CONCRETE COLUMN IN
CIVIC CENTER STATION



CIVIC CENTER STATION SEVERAL DAYS PRIOR TO TUNNEL
BREAK THRU, LOOKING SOUTH



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

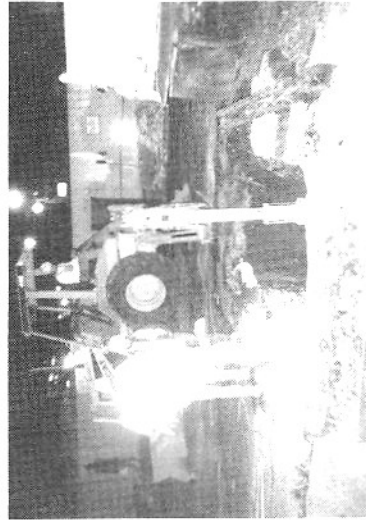
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PERIOD MAY 1989

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



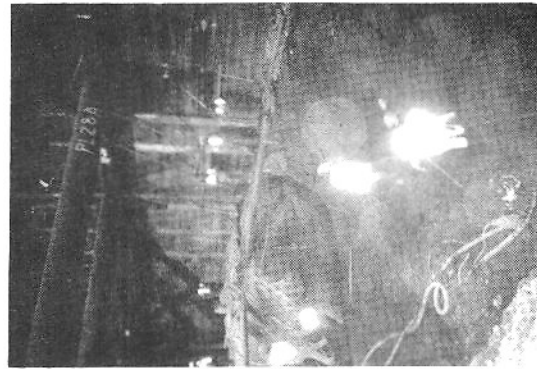
STATION'S NORTH END EXCAVATION OPERATIONS



SANITARY SEWER MANHOLE C-1
INSTALLATION IN 4TH STREET



TEMPORARY SANITARY SEWER LINE-C
IN 4TH STREET



ELECTRICAL GROUND MAT INSTALLATION
IN THE SOUTH END OF STATION



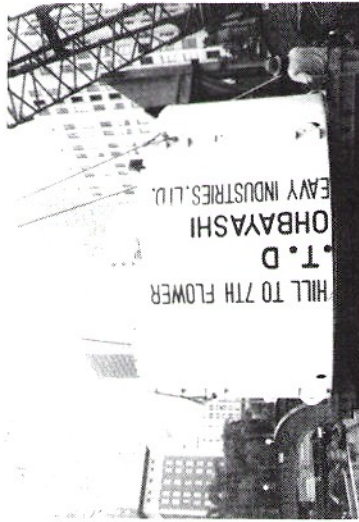
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

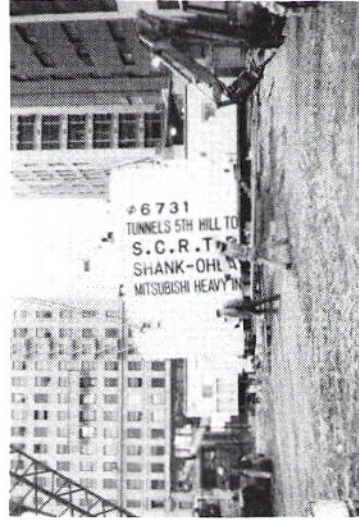
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PERIOD MAY 1989

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



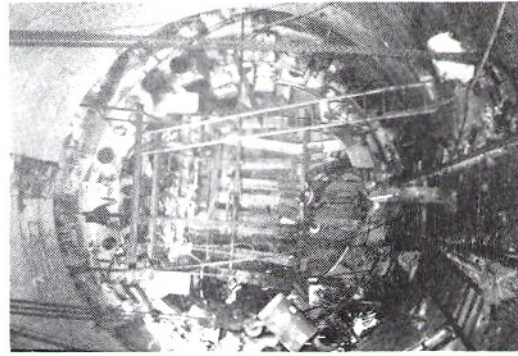
PART OF SHIELD FOR AR TUNNEL BEING
UNLOADED FROM TRAILER



PART OF SHIELD FOR AR TUNNEL BEING
LOWERED ONTO BLOCKS



PART OF SEGMENT ERECTOR FROM AL SHIELD
BEING REMOVED FROM ACCESS SHAFT



VIEW LOOKING WEST IN THE AL TUNNEL SHOWING THE TEMPORARY
WOODEN BULKHEAD PRIOR TO BREAK THRU TO 7TH/FLOWER
STATION. TUNNEL MACHINE SHIELD REMAINS IN PLACE

Parsons-Dillingham-De Leuw, Cather



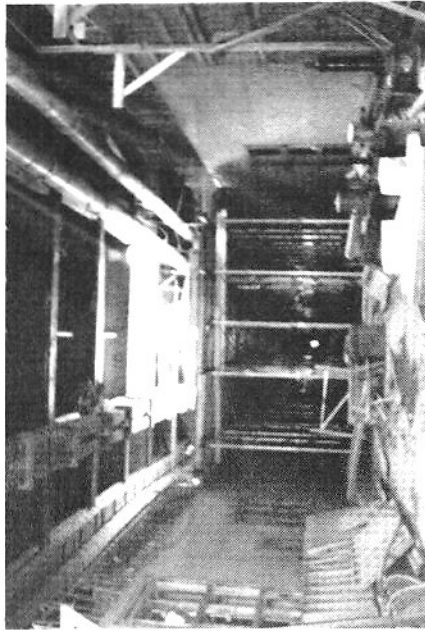
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

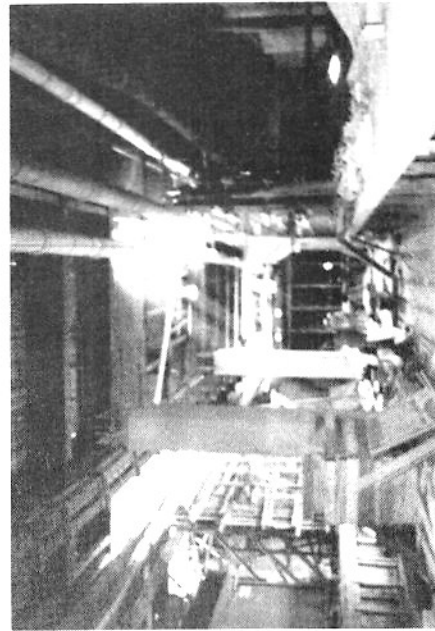
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PERIOD MAY 1989

7TH/FLOWER STATION
CONTRACT A165



LRT INTERIOR WALLS



LRT INTERIOR COLUMNS



REBAR FOR LRT ROOF SLAB



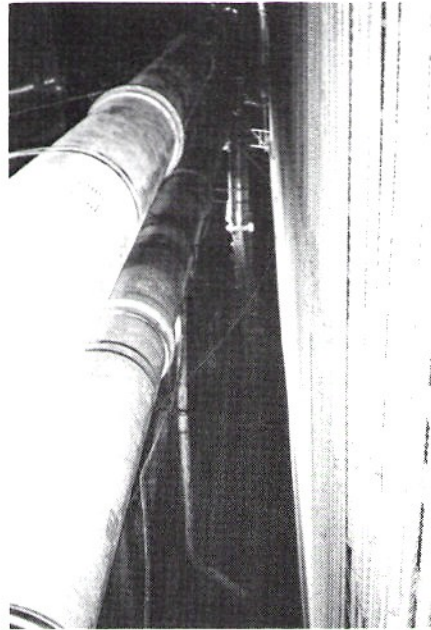
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

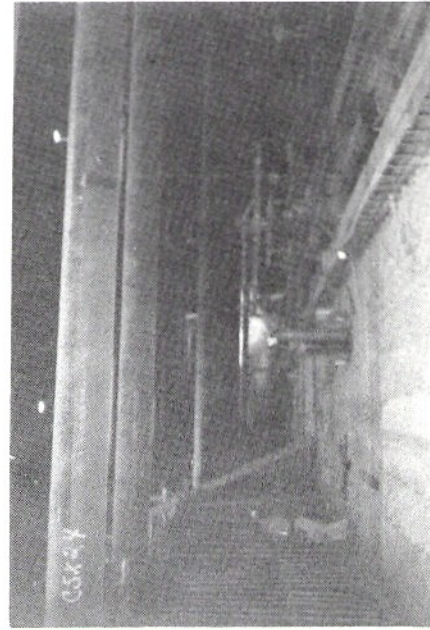
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PERIOD MAY 1989

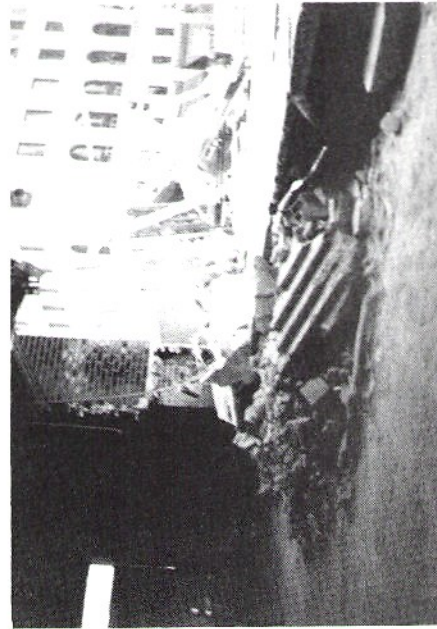
7TH/FLOWER STATION CONTRACT A165 (Contd)



SUPPORTED UTILITIES ABOVE LRT ROOF SLAB



MRT BASE SLAB



DEMOLITION AT ROOSEVELT BUILDING
(OLD REPUBLIC BANK)



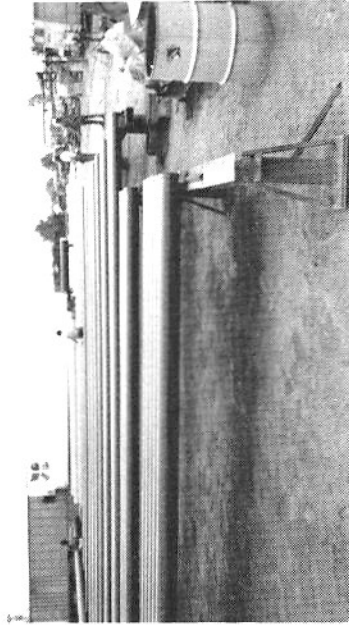
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

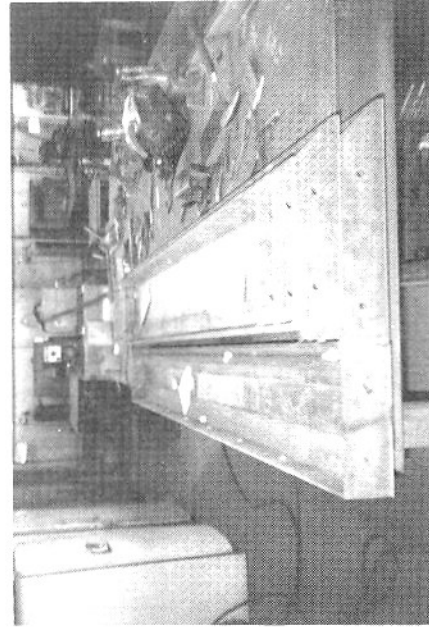
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PERIOD MAY 1989

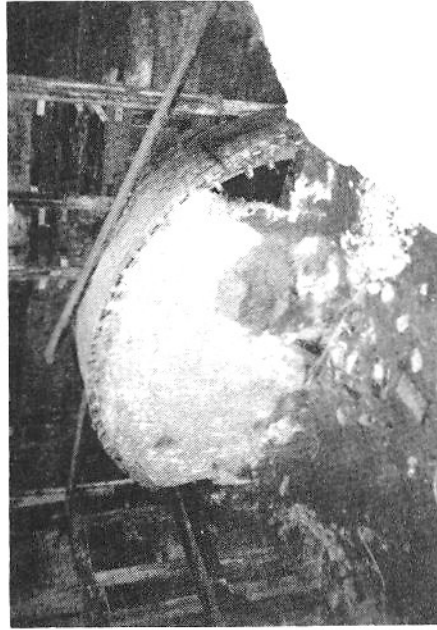
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO CONTRACT A171



8" STANDPIPE WITH PRIMER AND 2ND COAT OF
PAINT AT THE FABRICATION PLANT



WALKWAY FORM UNDER FABRICATION IN STEEL SHOP



A165/A171 INTERFACE WITH A171'S SHIELD AND
THE CONCRETE BULKHEAD INSIDE THE A165
STATION LIMITS



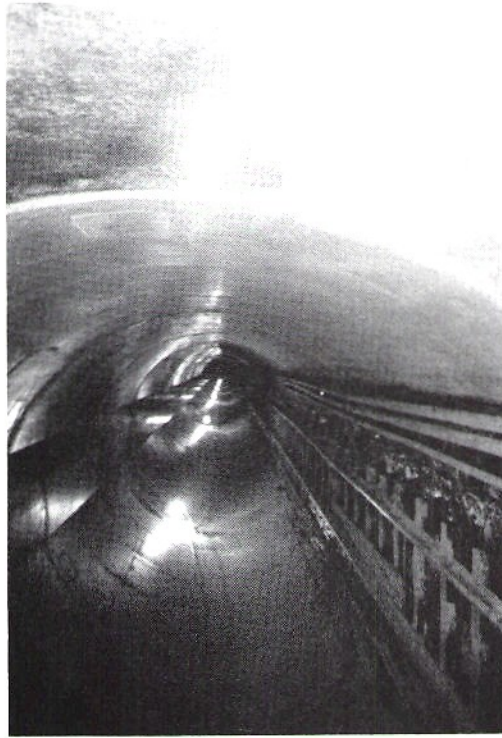
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

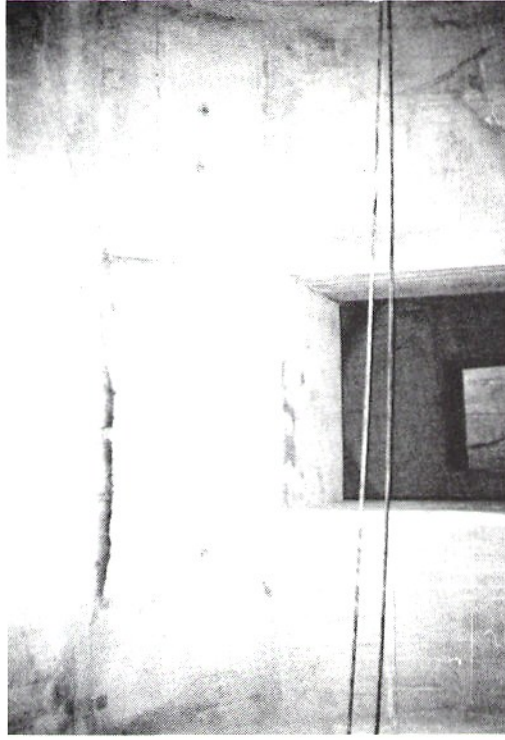
PDCD

PERIOD MAY 1989

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



AL TUNNEL ARCH LOOKING EAST AT STA. 242+50



AL TUNNEL AT CROSS PASSAGE #13 STA. 234+58;
FINISHED ARCH, TIED TO CROSS PASSAGE



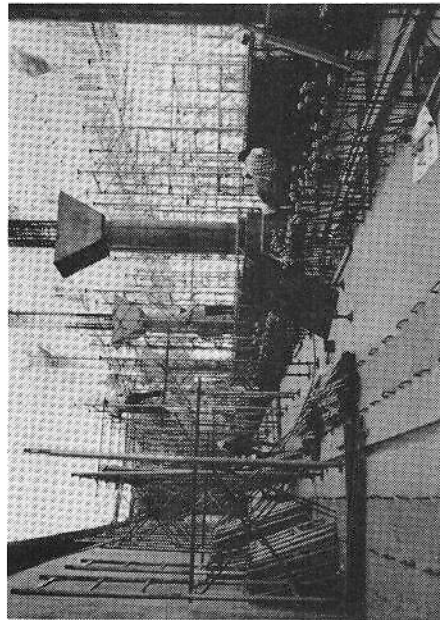
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

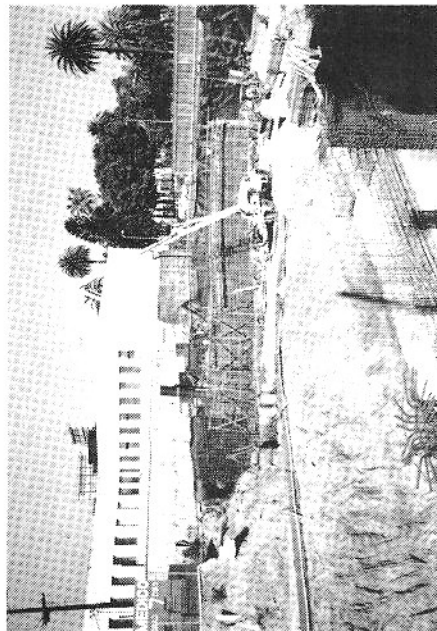
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PERIOD MAY 1989

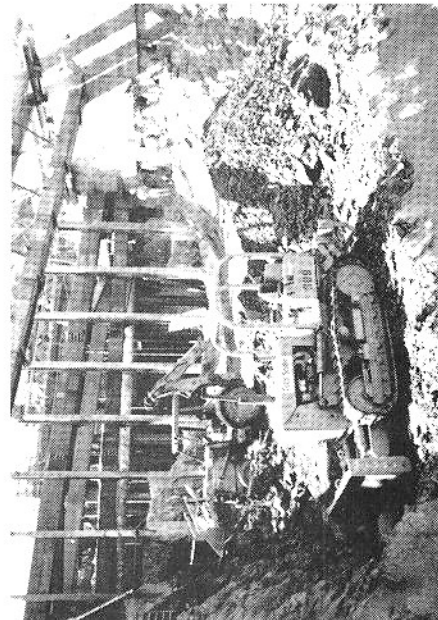
WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175



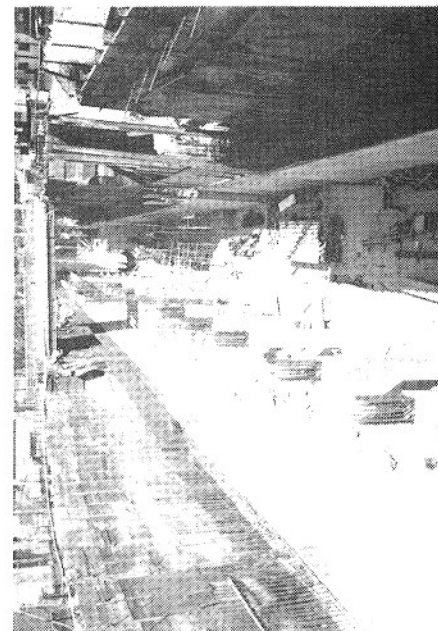
INSTALLATION OF MEZZANINE SLAB SUPPORT



PLACEMENT OF WALLS FOR THE SOUTH INTAKE
AND EXHAUST SHAFTS



EXCAVATION AND SUPPORT OF EXCAVATION AT
A171/A175 INTERFACE



GENERAL VIEW OF STATION PROGRESS,
INCLUDING SLABS, WALLS AND COLUMNS

Parsons-Dillingham-De Leuw, Cather



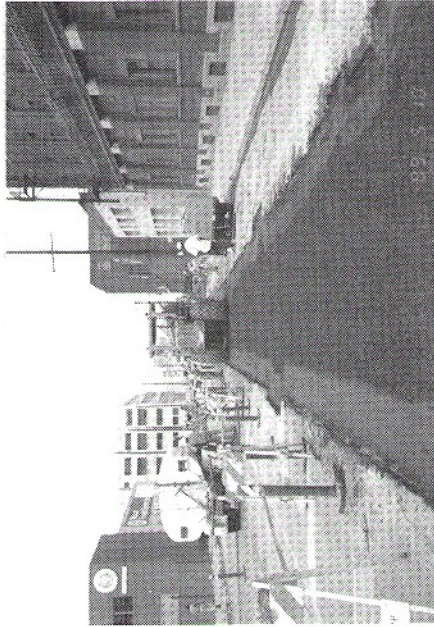
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE
REPORT

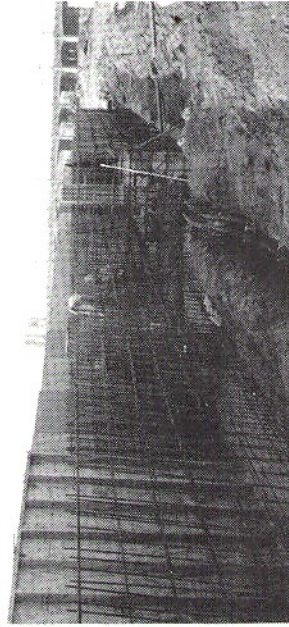
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PERIOD MAY 1989

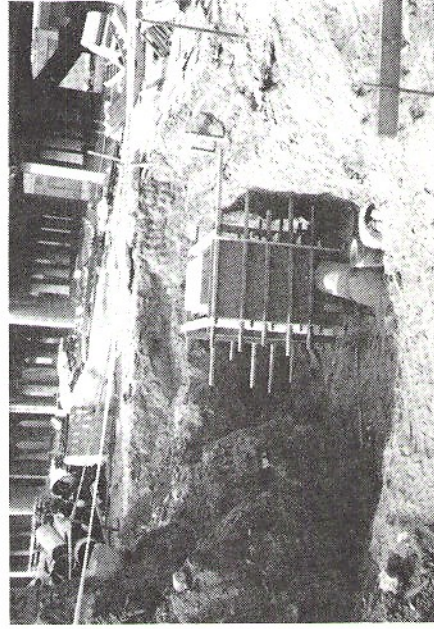
TRACKWORK INSTALLATION/YARD STORAGE AREA CONTRACT A610/A115



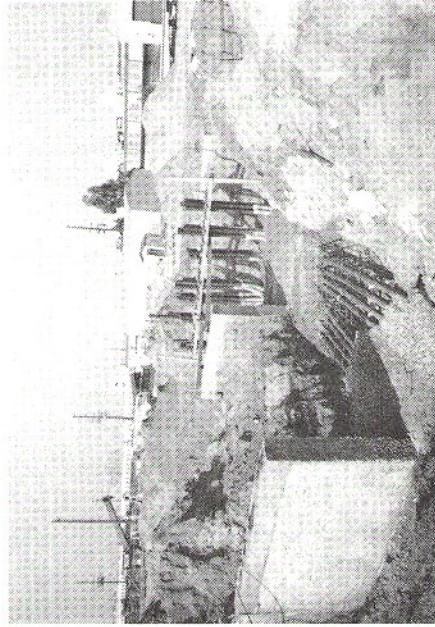
PERMANENT PAVEMENT RESTORATION AT 3RD STREET
IN CONNECTION WITH SEWER LINE WORK,
LOOKING WEST FROM SANTA FE AVENUE



FORMING WALL PANELS FOR HEAVY CAR CLEANING
PLATFORM, LOOKING SOUTH TOWARDS
4TH STREET BRIDGE



FORMWORK FOR STORM DRAIN CATCH BASIN SD 2,
LOOKING SOUTH TOWARDS 4TH STREET BRIDGE



DUCT BANKS LEADING TO OPERATING PLATFORM NO. 3,
LOOKING SOUTHWEST TOWARDS SANTA FE AVENUE

Parsons-Dillingham-De Leuw, Cather

