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RTD

LOS ANGELES **METRO RAIL** PROJECT
MONTHLY CONTRACT PERFORMANCE REPORT



REPORT NUMBER 57
MARCH 1989

PDCD

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

MONTHLY CONTRACT PERFORMANCE REPORT

for the

LOS ANGELES METRO RAIL PROJECT

MARCH 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 MARCH Year 1989

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TABLE OF CONTENTS

		Page
I.	Construction Manager's Summary Statement	1
II.	Manpower Performance	8
III.	Equal Opportunity Performance	15
IV.	Schedule Performance	17
V.	Cost Performance	20
VI.	Additional Activities Performed in March	26
VII.	Summary of Activities Planned for April	40
VIII.	Subcontractor/Consultant Status	45
IX.	Construction Progress Photos	

SECTION I

CONSTRUCTION MANAGER'S SUMMARY STATEMENT

I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

MAJOR CM ACTIVITIES

This Contract Performance Report (CPR) for the month of March 1989 is the ninth CPR in the Fifth Annual Work Plan (5th AWP) and covers the period February 25 through March 31, 1989. The following is a summary, by functional organization, of major CM activities during this period:

CONSTRUCTION OPERATIONS: Continued construction management (CM) services for 12 Facility Contracts and 12 Systems Contracts, monitoring of utilities relocations, and 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: Coordinated construction of a contaminated soil storage area in accordance with Department of Health Services variance requirements (A144). Submitted "Permit to Construct" application to the Southern California Air Quality Management District (SCAQMD) for two vapor extraction systems at the contaminated soil storage site (A144). Supervised and inspected on-going asbestos abatement activities at A135. Continued monitoring removal and separation of contaminated soil at A130. Submitted January L.A. River Total Dissolved Solids Report to RTD for transmittal to the Central and West Basin Water Replenishment District (CWBWRD). Continued monitoring of L.A. River and Ballona Creek receiving water monitoring stations. Continued monitoring construction daily discharges at six sites. Reviewed contractor submittals for high pH concrete wash waste neutralization system (A165). Performed a special study to determine source of highly contaminated influent into the GWTF (A144). Submitted final closure reports for underground tank sites at A145 and A175. Submitted February Discharge Monitoring Report (DMR) to SCRTD for transmittal to the California Regional Water Quality Control Board (CRWQCB). Continued monitoring removal and disposal of contaminated soil at A145 by 4986 (formerly A750B) Contractor. Reviewed two 4984 (formerly A750) submittals for asbestos abatement at A135 and two claims for A135 boiler room abatement.

Utilities and Traffic Activities: Continued coordination of traffic control plans and street closures with city agencies for four contracts. Continued coordination of MOS-1 inspections with LADOT. Obtained CalTrans' encroachment permit extension for crossing under Hollywood Freeway at Hill St. overcrossing (A141). Obtained occupancy permit for Amtrak machine shop (A141). Processed a total of 36 traffic and utilities related submittals.

Surveying Activities: Continued checking contractor's control points and layout (MOS-1). Continued performing as-built cross sections of AL Tunnel invert pour (A171). Continued monitoring instrumentation, building and ground settlement points on seven contracts. Continued as-built survey of AR Tunnel (A141). Continued location survey at shops and yards contracts. Checked slabs poured at A141 and A175 excavations. Performed invert alignment as-built survey of AL Tunnel (A171). Began performing as-built cross section of AR Tunnel invert pour (A171).

PROJECT CONTROLS: Processed 58 Change Requests as follows: 4 for A112; 3 for A130; 8 for A135; 5 for A141; 7 for A144; 5 for A145/A141A; 1 for A146; 15 for A165; 3 for A175; 6 for A610/A115 and 1 for A616. Processed 24 Change Notices as follows: 4 for A130; 3 for A135; 2 for A141; 2 for A144; 1 for A145/A145A; 1 for A146; 2 for A165; 1 for A175; 4 for A610/A115; 1 for A620 and 3 for A640. Processed 77 Change Orders as follows: 9 for A112; 12 for A121; 11 for A135; 5 for A141; 5 for A144; 13 for A145/A145A; 2 for A146; 9 for A165; 1 for A171; 2 for A175; 4 for A610/A115; 1 for A620; 1 for A710; 1 for A730 and 1 for A740. Processed 20 executed Change Orders through TRACS as follows: 1 for A112; 3 for A135; 6 for A141; 3 for A144; 4 for A145/A145A; 1 for A610/A115; 1 for A616 and 1 for A740. Processed 16 Potential Claims as follows: 1 for A112; 1 for A145/A145A; 9 for A165; 1 for A171 and 4 for A610/A115. Processed 38 Change - Technical Evaluations as follows: 4 for A112; 2 for A130; 4 for A135; 4 for A141; 3 for A144; 5 for A145/A145A; 1 for A146; 5 for A165; 4 for A175; 2 for A610/A115; 1 for A616; 1 for A630; 1 for A631 and 1 for A640.. Processed 15 Force Accounts as follows: 4 for A141; 1 for A145/A145A and 10 for A610/A115. Completed close-out audits on 2 Force Account Change Orders (A141 and A165). Processed 18 Monthly Payment Estimates. Completed recommendations on implementation plan for PC TRACS and submitted to RTD. Continued testing PC TRACS for potential use on the project. Continued preparation of 6th AWP proposal. Completed input to RTD Project Schedule Evaluation Report for RTD Board of Directors. Reviewed Contractor Monthly Progress Reports. Prepared Contractor progress inputs to RTD Monthly Status Report.

Cost Estimates for Changes and Proposals: A112-CR-068: Began review and takeoff to prepare estimate for lighting system conduits. A130-CR-017: Revised estimate for removal of buried foundation using alternate equipment rates. A130-CR-023: Completed Estimate for Hazardous Material Storage Site, attended negotiations. A130-CR-021: Reviewed contractor computations for lump sum and linear unit price items included in W. C. Ratio change, and attended meetings. A130-CR-026: Began takeoff for estimate, Communications Duct Bank Connection to Metro Rail - LAFD and PacBell. A130: Clarified Scope, prepared takeoff and estimate for credit for proposed material change in communication duct bank. A135-CR-004: Continued material takeoffs and estimates, reviewed proposals for changes on LAUPT Baggage Handling Facility. A135-CR-020: Began review for credit due to electrical duct bank obstruction. A141-CR-097: Began estimate for additional strain gauges. A141-CR-108: Completed estimate for Hydraulic Lines Elevator Door. A141-CR-011: Met with RTD to review Tunnel equipment standby rates. A145-CR-116: Completed estimate for telephone manhole #793, attended negotiations.

A145-CR-124: Completed estimates for additional strain gauges, attended negotiations. A145-CR-133: Prepared estimate for Hydraulic lines for elevators. A146-CR-030: Prepared estimate for compaction grouting within tunnel. A146: Completed development of tunnel equipment rates for Force Account. A165-CR-034: Prepared estimate for underpinning soldier piles at Home Savings, RTD entrance. A165-CR-041: Completed estimate for deletion of pavement at 7th and Figueroa intersection. A165-CR-049: Prepared preliminary estimate and reviewed contractor proposal, revisions to East bulkhead on 7th Street. A175-CR-024: Prepared estimate for miscellaneous changes, safety review comments. A175-CR-038: Prepared estimate and attended negotiations, Hydraulic lines for elevator No. 2. A175-CR-044: Prepared estimate, conduit addition to elevator pit No. 8. A620-CR-001: Completed estimate for revised schedule and attended negotiations.

CONTRACTS/PROCUREMENT: Continued purchasing activities, administration of test lab, photo, cleanup and security service subcontracts and administration and issuance of Work Releases for the Associate Subcontracts. Preparing subcontract modifications for AWP 6.

ENGINEERING SERVICES: Completed efforts to obtain CalTrans permits to install geotechnical instrumentation at Hollywood Freeway in Contract A141. Carried out field investigation in Contract A175 where low bearing materials were encountered in passageway invert and recommended excavating another 6" for possible find of good bearing material. At the request of the District, set up system to have Civic Center Station instrumentation data delivered and analyzed for changes in strut loads on a daily basis. Completed and delivered a tabulation of geologic data and loading criteria from 22 Los Angeles foundation excavations with some similarity to Metro Rail cut-and-cover excavations. Relative to the Civic Center Station strut/tie-back loadings: Composed a statement for use in discussing the Civic Center Station strut loadings with the L.A. County Board of Supervisors; delivered to the District for re-transmittal to County Board of Supervisors consultants, a package of Civic Center Station materials, including south end plans, profiles, cross sections, sketches, construction geology maps, strut photographs, and instrumentation monitoring data; and completed a one-week long study of three daily strut load and temperature readings in Civic Center Station as a check on the relationships between loads and temperature and as a cross check on monitoring data submitted by the Contractor. Completed the detailed study plan outline for the A141 Excavation Support System Design Criteria Verification Study. Completed and transmitted the findings from subtasks A1 through A5 in the A141 StudyPlan, encompassing Civic Center Station support loads and excavation depths through time. Responded to 73 requests for information or documentation clarification from various Contractors. Processed 58 field inquiries with MRTC to obtain clarification of design requirements.

During this period 384 Contractor submittals were processed as follows:

For Contract A112	- Approved -	11;	Approved-as-Noted -	5;	Rejected -	3.				
For Contract A130	- Approved -	25;	Approved-as-Noted -	18;	Rejected -	18;	For Record Only -	1.		
For Contract A135	- Approved -	13;	Approved-as-Noted -	13;	Rejected -	4;	For Record Only -	1.		
For Contract A135BH	- Approved -	17;	Approved-as-Noted -	6;	Rejected -	1.				
For Contract A141	- Approved -	11;	Approved-as-Noted -	8;	Rejected -	5;	For Record Only -	3.		
For Contract A145	- Approved -	11;	Approved-as-Noted -	12;			For Record Only -	1.		
For Contract A146	- Approved -	1;	Approved-as-Noted -	4;	Rejected -	2.				
For Contract A165	- Approved -	32;	Approved-as-Noted -	32;	Rejected -	6.				
For Contract A171	- Approved -	9;	Approved-as-Noted -	12;	Rejected -	6;	For Record Only -	1.		
For Contract A175	- Approved -	8;	Approved-as-Noted -	4;	Rejected -	2;	For Record Only -	2.		
For Contract A610/A115	- Approved -	6;	Approved-as-Noted -	4.						
For Contract A612	- Approved -	2;	Approved-as-Noted -	2.						
For Contract A615	-		Approved-as-Noted -	1.						
For Contract A616	- Approved -	6.								
For Contract A620	- Approved -	8;	Approved-as-Noted -	9;	Rejected -	1.				
For Contract A630	- Approved -	1;			Rejected -	9.				
For Contract A640	- Approved -	1;			Rejected -	3;	For Record Only -	1.		
For Contract A710	- Approved -	2;	Approved-as-Noted -	4.						
For Contract A740	- Approved -	3;	Approved-as-Noted -	4;	Rejected -	3.				
For Contract A745	- Approved -	1;	Approved-as-Noted -	1;	Rejected -	1.				
For Contract A750	-				Rejected -	1.				
For Contract A795	-		Approved-as-Noted -	1;	Rejected -	1.				
TOTAL		168		140		66		10	=	384

SAFETY/SECURITY: Performed daily site safety, health and security surveillances on a two shift basis and prepared written reports for 12 construction projects. Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service Subcontractor. Completed revisions to the Construction Safety and Security Manual in conjunction with SCRTD/DIA and submitted to SCRTD for final approval.

COMMUNITY RELATIONS - Coordinated community notifications and traffic control assistance for A141, A145, A146, A165 and A175. Coordinated and assisted in the development of traffic mitigation for tenants along Hill St. affected by A145 and A146 traffic access plans, and for tenants in the 7th and Flower area affected by A165.

Provided assistance to A141, A145, A146 and A165 for problems caused by street closures and lane restrictions, blocked access, noise, building damage and accidents. Provided information to RTD/LGCA in support of their reorganization of Metro Rail Community Relations section within TSD. Provided assistance in coordinating site visits (10) and responding to media requests (10). Processed 43 inquiries/complaints.

QUALITY ASSURANCE/QUALITY CONTROL - Identified testing requirements to A135 contractor in order to accept "used steel" for railroad and vehicle bridge. Continued review of welding submittals and provided site welding inspection for A141, A145, A165, A171 and A175. Conducted fabrication inspections at ORECOR (A165), Cowelco Manufacturing (A135), Eckman (A145), Paramount Metals (Various) and Stockton Tri-Industries (A135). Conducted audits at Aerovent (A745) and GRS (A620). Submitted to RTD for approval the Safety Certification File content for facility contracts, using A112 as initial case. Continued monitoring of testing lab subcontract and prepared AWP 6 testing budget. Witnessed hydrotests on wet standpipe fire water lines for A165 and A175 and reviewed NCR on FW piping on A171. Conducted HDPE QC inspections, distributed memo to A141, A165, A171 and A175 identifying improved HDPE test reporting procedure. Conducted reinforcing steel and concrete placement QC inspections on (A130 and A141). Participated in discussions with RTD and BAH on contract closeout procedures and with RTD on procedure for preparation of as-built drawings.

EQUAL OPPORTUNITY - Monitored Equal Opportunity reporting requirements for 24 Contracts. Conducted project site visits/employee interviews at 10 construction sites. Processed penalty assessments for late submittal of the Monthly Employment Utilization Reports for 6 Contracts.

MANPOWER PERFORMANCE

The manpower performance for March is measured against the approved planned staffing for the 5th AWP. During March, the actual staff level was 201 vs. the planned staff level of 187. Therefore, the actual staff count for March was 14 over the planned staffing level. The staff breakdown by company was 132 for the Joint Venture firms and 69 for the Associate Subcontractors. The increased staff continues to be required for the accelerated shop drawing review for the A135 contract and for multishift inspection of construction work at various jobsites.

The March period had 200 available workhours/person. The plan provided for expenditure of 36,520 hours, including "as-required" manhours which would have generated a projected equivalent head count of 182.6 personnel at 200 hours/person. Actual hours expended were 37,845 which translates into a 189.225 equivalent head count at 200 hours/person including temporary personnel, resulting in the equivalent of 6.625 personnel over the plan.

Cumulative total hours incurred through March were 272,271 against a plan of 263,808 resulting in an over plan variance of 8,463 hours.

EQUAL OPPORTUNITY (EO) PERFORMANCE

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

- Cumulative DBE participation for the Fifth Annual Work Plan through the month, measured against a total cost basis was 18.4%, 1.4% over the goal of 17%.
- 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%.
- Minority and Women Affirmative Action performance for the month exceeded the established goals of 17% and 8% by 25% and 1.4% respectively.

SCHEDULE PERFORMANCE

- **Contractor Submittals** - During this period, 394 submittals were received per contract number as follows: A112 (20), A130 (43), A135 (24), A135BH (31), A141 (26), A145 (15), A146 (10), A165 (76), A171 (36), A175 (27), A610/A115 (7), A612 (4), A615 (3), A616 (12), A620 (22), A630 (5), A640 (7), A710 (6), A732 (0), A740 (10); A745 (3); A750 (2) and A795 (5); of the 394 received this period plus the 233 carryover from February, 384 packages were processed and returned to the contractors; the balance of 243 remain in review.
- **Constructibility Reviews** - Completed reviews for A147/100%, Civic Center Station, Stage II and A135/100% Union Station West Entrance.
- **Training Programs** - During March, the following training programs were underway: SAFETY TRAINING FOR UNDERGROUND CONSTRUCTION - Training in safety conduct during underground construction covering use of self-rescuers, fire extinguishers and other safety equipment and AMTRAK SAFETY TRAINING - Training in safety relative to work on and in the vicinity of railroad tracks and facilities.

COST PERFORMANCE - Fifth Annual Work Plan

- Total incurred costs of $1,665,176 for CM Direct Services (excluding General Condition Items) for the period were under the plan of $1,679,136 by $13,960. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by $31,805 and labor expenditures (total PDCD and subcontractors) being over the plan by $17,845.

- The cumulative costs for Total CM Services (Including General Condition Items) incurred through March were $12,738,972 against a plan of $12,877,601 resulting in an under plan of $138,629.
- The March CPR indicates an estimate at completion for the 5th AWP (including General Condition Items) of $17,608,829 versus a plan of $17,625,378 for an underexpenditure of $16,549.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of $58,157 for the period were over the plan of $44,192 for the period by $13,965. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of $905,870, which is over the plan of $664,300 by $241,570.

GENERAL

- This "Monthly Contract Performance Report" covers progress relative to PDCD's CM Services contract with the RTD. By RTD direction PDCD no longer produces the "Monthly Construction Performance Report". An equivalent document is now produced by RTD with PDCD input and is entitled the "Monthly Status Report." A copy of the RTD report is distributed to previous recipients of the PDCD report as required.
- The PDCD fifteenth Joint Venture Executive Board Meeting is scheduled for Friday, April 21, 1989.

Melvin L. Polacek
Construction Manager

SECTION II

MANPOWER PERFORMANCE

II. MANPOWER PERFORMANCE

This CPR for the month of March 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 March.

During March, personnel assignments/deletions included the addition of 1 Inspector, 1 Planner/Scheduler, and 3 secretarial/Clerical personnel; and the deletion of 1 Mechanical Engineer, 1 Structural Engineer, 1 Architect, 1 Sr. Data Technician, and 1 Environmental Engineer.

For the March period, under the approved 5th AWP, the total planned staffing level (including regular and as-required classifications) is 187. The actual staff (including regular, as-required and temporary classifications) was 201 resulting in 14 over the plan. The current actual staff by company for the March period is as follows:

Company	Staff Level	Company	Staff Level
The Ralph M. Parsons Company	54	Jenkins, Gales & Martinez, Inc.	8
Dillingham Construction, Inc.	55	Kal Krishnan Consulting	2
De Leuw, Cather & Company	23	Martin & Huang International	5
Better Personnel Employment Services	11	North Pacific Construction Management	4
Construction Control Services Corporation	19	Ochoa & Sillas	-
Dames & Moore	1	Randolph & Tate Associates	-
D'Leon Consulting	1	Transmetrics	1
Engineering-Science, Inc.	4	WCI	4
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 March.

The March period had 200 available workhours/person. The plan provided for an expenditure of 36,520 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 182.6 personnel @ 200 hrs/person. Actual hours expended were 37.845 which translates into an equivalent head count of 189.225 @ 200 hrs/person including temporary personnel, resulting in the equivalent of 6.625 personnel over the plan.

The hours expended for the period were 37,845 versus a plan of 36,520. The 1,325 manhours variance for the period is calculated as follows:

6.625 equivalent staff over plan @ 200 hours/period in plan =	1,325 hours
MARCH MANHOUR VARIANCE TO PLAN	1,325 hours

Cumulative total hours incurred through March were 272,271 against a plan of 263,808 resulting in an over plan variance of 8,463 hours. (Page 22)

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

Phase II Construction Services

Regular/As-required/Temporary

Position	Planned	Actual	Variance
Construction Manager	1	1	0
Manager, Safety and Security	1	1	0
Safety Inspectors	2	2	0
Manager, Quality Assurance	1	1	0
Quality Assurance Engineer	1	1	0
QA/QC Inspector	1	2	1
Secretarial/Word Processing/Clerical/ Drafting/Courier	15	19	4
Labor Relations	0	0	0
Legal Counsel	0	0	0
Subtotal	22	27	5
Manager, Administration and Staff Support	1	1	0
Manager, Project Administration/Accounting	1	1	0
Senior Accountant	1	1	0
Senior Accounting Clerks	2	2	0
Office Manager	1	1	0
Arts Coordinator	0	0	0
Manager, Community Relations	1	1	0
Community Relations Coordinator	1	1	0
Manager, EO Administration	1	1	0
EO Administrator	1	1	0
(3) Lead Document Control Specialist	1	1	0
Document Control Specialist	1	1	0
Shop Drawing Coordinator	1	1	0
Data Technician	2	4	2
File Clerk	1	1	0
Subtotal	16	18	2
DCM, Project Controls/Engineering Services	1	1	0
Manager, Project Controls	1	1	0
Technical Data Coordinator	1	1	0
Lead Cost Engineer	1	1	0
Cost Engineers	4	4	0
Lead Change Control	1	1	0
Change Control Specialist	1	1	0
Claims Proc. Spec.	1	1	0
Data Technician	1	0	(1)
Lead Planner/Scheduler	1	1	0
Planner/Schedulers	6	6	0
Lead Estimator	1	1	0
Estimators	5	2	(3)
Sr. Data Technician	1	1	0
Computer Support	0	0	0
Subtotal	26	22	(4)
Manager, Contracts/Procurement	1	1	0
Sr. Contract Administrator	2	2	0
Subtotal	3	3	0

Phase II Construction Services

Regular/As-required/Temporary

Position	Planned(1)	Actual(2)	Variance
Manager, Engineering Services/ Systems Integration	1	1	0
Drafting Technicians	3	1	(2)
Lead Architect	1	1	0
Architect	0	0	0
Lead Electrical Engineer	1	1	0
Electrical Engineer	1	2	1
Lead Engineer, Geotech. Section	1	1	0
Engineers, Geotech. Section	7	5	(2)
Lead Mechanical Engineer	1	1	0
Mechanical Engineer	1	1	0
Lead Structural Engineer	1	1	0
Sr. Struct./Struct. Engineers	2	4	2
Lead Systems Engineer	1	1	0
Systems Engineer	2	1	(1)
Office Engineer	0	1	1
Subtotal	23	22	(1)
DCM, Operations	1	1	0
Manager, General Services	1	1	0
Lead Utilities Engineer	1	1	0
Utility Engineer	1	1	0
Chief of Surveys	1	1	0
Party Chief	1	1	0
Instrument Person	2	2	0
Rod Person	1	2	1
Lead Environmental Engineer	1	1	0
Environmental Specialists	3	4	1
Engineer	0	0	0
Engineering Technician/Coordinator	1	1	0
Resident Engineers	9	10	1
Chief Inspectors	8	9	1
Sr. Inspectors/Inspectors	31	38	7
Office Engineers	11	12	1
Field Secretaries/Clerical	14	14	0
Manager, Systemwide Construction	1	1	0
Office Engineer	2	1	(1)
Resident Engineers	4	4	0
Secretary	2	4	2
Inspector	1	0	(1)
Subtotal	97	109	12
Totals	187	201	14

NOTES:

(1) The "Planned" staff count is taken directly from the RTD approved PDCD 5th AWP. It is the planned staff count for the reported month and includes both "Regular" and "As-required" classifications.

(2) The "Actual" staff count is the total actual staff count by Job Position. Included are regular, as-required and temporary staff.

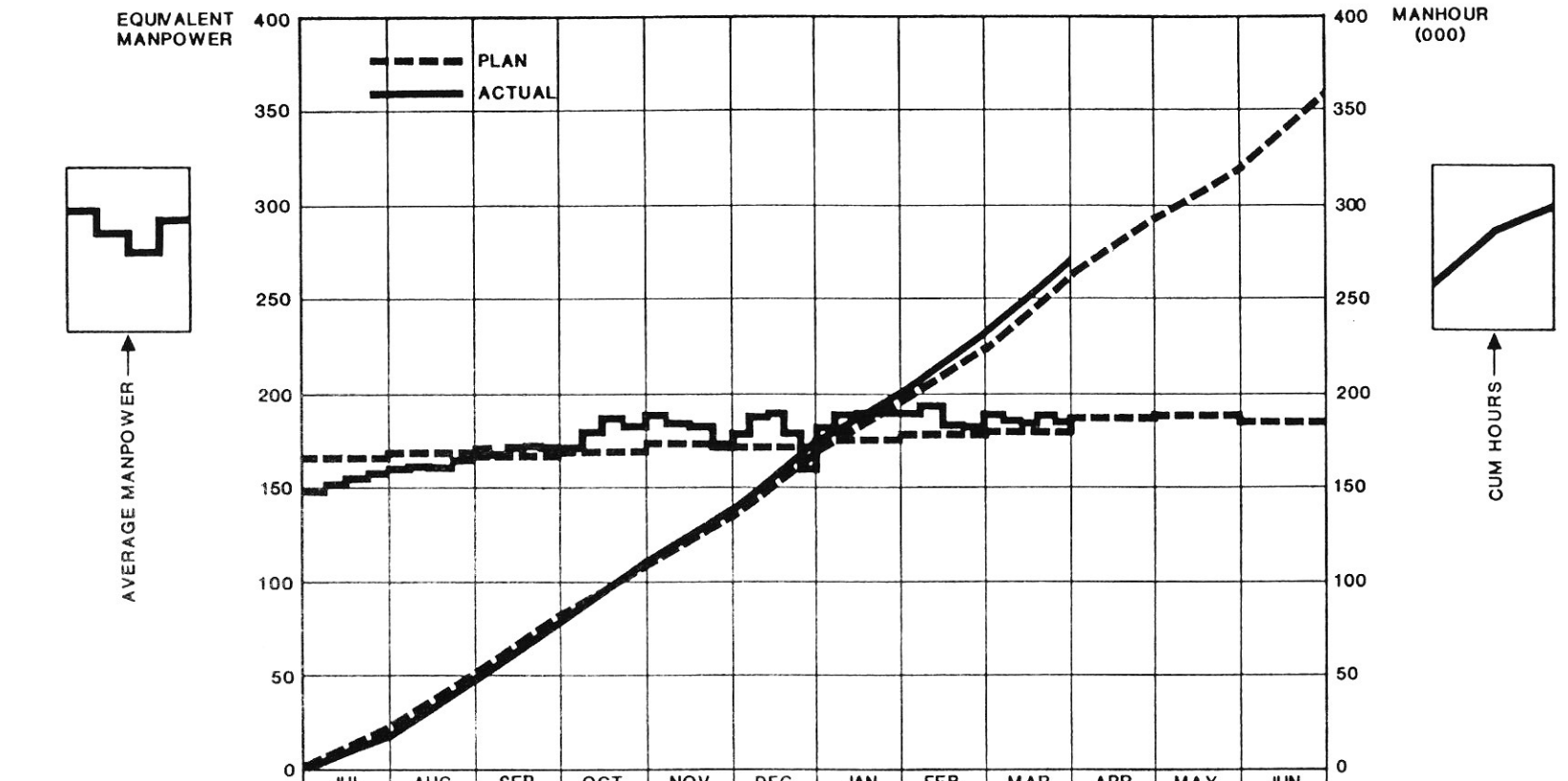
(3) Effective February 1, 1989, the Document Control Section, previously in the DCM, Project Controls/Engineering Services group, was transferred to the Manager, Administration and Staff Support group.

LOS ANGELES METRO RAIL

PDCD

CONTRACT PERFORMANCE REPORT
FIFTH ANNUAL WORK PLAN

PERIOD MARCH 1989



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
HOURS/MO	PLAN	25,720	27,360	32,304	27,360	25,200	33,120	27,104	29,120	36,520	30,160	30,400	35,952
	ACTUAL	23,616	26,406	33,771	29,131	26,925	34,955	28,914	30,709	37,845			
HOURS/CUM	PLAN	25,720	53,080	85,384	112,744	137,944	171,064	198,168	227,288	263,808	293,968	324,368	360,320
	ACTUAL	23,616	50,022	83,793	112,924	139,849	174,804	203,718	234,427	272,271			
EQ MANPOWER	PLAN	169	171	168	171	175	173	178	182	183	189	190	187
	ACTUAL	155	165	176	182	187	182	190	192	189			
AVAILABLE WORK HOURS		152	160	192	160	144	192	152	160	200	160	160	192

PDCD MANPOWER

FIFTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

DESCRIPTION (MHRS)			1988 JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	1989 JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TOTALS
MANHOURS BY FUNCTIONAL DEPARTMENT															
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	2,880	3,456	36,432
		cumulative	2,736	5,616	9,072	11,952	14,544	18,000	20,736	23,616	27,216	30,096	32,976	36,432	
	Actual	current	3,052	3,037	3,625	3,063	2,619	3,625	3,274	3,414	4,154				
		cumulative	3,052	6,089	9,714	12,777	15,396	19,021	22,295	25,709	29,863				
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	12,160	14,208	137,616
		cumulative	9,400	19,560	31,544	41,864	51,400	63,768	74,088	85,208	99,408	111,248	123,408	137,616	
	Actual	current	9,697	10,632	13,438	12,086	11,439	15,144	12,354	13,150	16,050				
		cumulative	9,697	20,329	33,767	45,853	57,292	72,436	84,790	97,940	113,990				
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	1,520	1,776	17,768
		cumulative	1,304	2,504	4,088	5,288	6,680	8,296	9,752	11,112	12,952	14,472	15,992	17,768	
	Actual	current	895	1,062	1,378	1,252	1,046	1,375	1,047	1,075	1,463				
		cumulative	895	1,957	3,335	4,587	5,633	7,008	8,055	9,130	10,593				
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	1,920	2,272	24,688
		cumulative	1,984	4,064	6,528	8,448	10,192	12,464	14,296	16,216	18,576	20,496	22,416	24,688	
	Actual	current	2,083	2,408	3,642	2,644	2,554	3,051	2,172	2,155	2,888				
		cumulative	2,083	4,491	8,133	10,777	13,331	16,382	18,554	20,709	23,597				
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	4,720	5,616	57,768
		cumulative	4,184	8,664	13,928	18,488	22,520	27,976	32,312	36,872	42,712	47,432	52,152	57,768	
	Actual	current	2,882	3,203	3,498	3,743	3,275	4,353	3,765	4,050	5,306				
		cumulative	2,882	6,085	9,583	13,326	16,601	20,954	24,719	28,769	34,075				
L Contracts/Procurement	Plan	current	456	480	576	480	432	576	456	480	600	480	480	576	6,072
		cumulative	456	936	1,512	1,992	2,424	3,000	3,456	3,936	4,536	5,016	5,496	6,072	
	Actual	current	445	471	509	407	388	447	385	422	447				
		cumulative	445	916	1,425	1,832	2,220	2,667	3,052	3,474	3,921				
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	3,520	3,968	40,656
		cumulative	2,976	5,936	9,472	12,432	15,104	18,640	21,768	25,368	29,648	33,168	36,688	40,656	
	Actual	current	2,440	3,048	4,247	3,284	3,063	3,762	3,329	3,847	4,164				
		cumulative	2,440	5,488	9,735	13,019	16,082	19,844	23,173	27,020	31,184				

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FIFTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

DESCRIPTION (MHRS)			1988 JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	1989 JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TOTALS
N Community Relations	Plan	current	304	320	384	320	288	384	304	320	400	320	320	384	4,048
		cumulative	304	624	1,008	1,328	1,616	2,000	2,304	2,624	3,024	3,344	3,664	4,048	
	Actual	current	293	290	361	310	249	292	248	204	375				
		cumulative	293	583	944	1,254	1,503	1,795	2,043	2,247	2,622				
P Safety and Security	Plan	current	456	480	576	480	432	576	456	480	600	480	480	576	6,072
		cumulative	456	936	1,512	1,992	2,424	3,000	3,456	3,936	4,536	5,016	5,496	6,072	
	Actual	current	272	320	352	344	416	512	424	464	544				
		cumulative	272	592	944	1,288	1,704	2,216	2,640	3,104	3,648				
Q Quality Assurance	Plan	current	304	480	384	320	208	464	224	400	320	240	240	464	4,048
		cumulative	304	784	1,168	1,488	1,696	2,160	2,384	2,784	3,104	3,344	3,584	4,048	
	Actual	current	240	263	441	406	352	481	406	411	681				
		cumulative	240	503	944	1,350	1,702	2,183	2,589	3,000	3,681				
R Project Administration	Plan	current	912	960	1,152	960	864	1,152	912	960	1,200	960	960	1,312	12,304
		cumulative	912	1,872	3,024	3,984	4,848	6,000	6,912	7,872	9,072	10,032	10,992	12,304	
	Actual	current	752	798	1,327	905	742	1,021	865	910	1,023				
		cumulative	752	1,550	2,877	3,782	4,524	5,545	6,410	7,320	8,343				
S EO Administration	Plan	current	304	320	384	320	288	384	304	320	400	320	320	384	4,048
		cumulative	304	624	1,008	1,328	1,616	2,000	2,304	2,624	3,024	3,344	3,664	4,048	
	Actual	current	152	152	152	192	272	360	261	266	387				
		cumulative	152	304	456	648	920	1,280	1,541	1,807	2,194				
T Labor Relations	Plan	current	0	0	0	0	0	0	0	0	160	0	160	0	320
		cumulative	0	0	0	0	0	0	0	0	160	160	320	320	
	Actual	current	0	0	9	9	0	4	0	0	4				
		cumulative	0	0	9	18	18	22	22	22	26				
U Legal Counsel	Plan	current	0	0	0	0	0	160	0	160	0	160	0	160	640
		cumulative	0	0	0	0	0	160	160	320	320	480	480	640	
	Actual	current	0	0	0	0	0	5	0	0	0				
		cumulative	0	0	0	0	0	5	5	5	5				
Subtotal (HOURS)	Plan	current	25,320	26,800	31,744	26,720	24,480	32,400	26,464	28,560	35,900	29,360	29,680	35,152	352,480
		cumulative	25,320	52,120	83,864	110,584	135,064	167,464	193,928	222,488	258,388	287,648	317,328	352,480	
	Actual	current	23,203	25,684	32,979	28,645	26,415	34,432	28,530	30,368	37,486				267,742
		cumulative	23,203	48,887	81,866	110,511	136,926	171,358	199,888	230,256	267,742				

FIFTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

DESCRIPTION (MHRS)			1988 JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	1989 JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TOTALS
Other Direct Labor															
R. M. Parsons															
K Project Controls	Plan	current	0	0	0	80	80	80	0	80	0	80	0	80	480
		cumulative	0	0	0	80	160	240	240	320	320	400	400	480	
	Actual	current	0	582	8	65	82	26	68	44	52				
		cumulative	0	582	590	655	737	763	831	875	927				
L Procurement	Plan	current	0	0	0	0	0	0	0	0	0	0	0	0	0
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	
	Actual	current	0	0	0	0	2	0	0	0	0				
		cumulative	0	0	0	0	2	2	2	2	2				
M Engineering Services/ Systems Integration	Plan	current	160	320	320	320	320	320	320	160	160	160	160	160	2880
		cumulative	160	480	800	1,120	1,440	1,760	2,080	2,240	2,400	2,560	2,720	2,880	
	Actual	current	341	(189)	507	243	511	418	200	148	121				
		cumulative	341	152	659	902	1,413	1,831	2,031	2,179	2,300				
Q Quality Assurance	Plan	current	0	0	0	0	80	80	80	80	80	80	80	80	640
		cumulative	0	0	0	0	80	160	240	320	400	480	560	640	
	Actual	current	0	0	0	0	0	0	0	0	0				
		cumulative	0	0	0	0	0	0	0	0	0				
R Administration	Plan	current	0	0	0	0	0	0	0	0	0	0	0	0	0
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	
	Actual	current	0	83	80	(96)‡	61	73	52	96	148				
		cumulative	0	83	163	67	128	201	253	349	497				
Dillingham Construction															
K Project Controls	Plan	current	0	0	0	0	0	0	0	0	160	160	160	160	640
		cumulative	0	0	0	0	0	0	0	0	160	320	480	640	
	Actual	current	0	0	0	0	0	0	0	0	0				
		cumulative	0	0	0	0	0	0	0	0	0				
M Engineering Services/ Systems Integration	Plan	current	0	0	0	0	0	0	0	0	0	0	0	0	0
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	
	Actual	current	72	152	148	272	(160)	4	0	0	0				
		cumulative	72	224	372	644	484	488	488	488	488				
DeLeuw, Cather															
F General Services	Plan	current	80	80	80	80	80	80	80	80	80	80	80	80	960
		cumulative	80	160	240	320	400	480	560	640	720	800	880	960	
	Actual	current	0	0	0	0	0	0	0	0	0				
		cumulative	0	0	0	0	0	0	0	0	0				
M Engineering Services/ Systems Integration	Plan	current	160	160	160	160	160	160	160	160	240	240	240	240	2240
		cumulative	160	320	480	640	800	960	1,120	1,280	1,520	1,760	2,000	2,240	
	Actual	current	0	94	49	2	14	2	64	53	38				
		cumulative	0	94	143	145	159	161	225	278	316				
Subtotal	Plan	current	400	560	560	640	720	720	640	560	720	800	720	800	7,840
		cumulative	400	960	1,520	2,160	2,880	3,600	4,240	4,800	5,520	6,320	7,040	7,840	
	Actual	current	413	722	792	486	510	523	384	341	359				
		cumulative	413	1,135	1,927	2,413	2,923	3,446	3,830	4,171	4,530				
TOTAL DIRECT LABOR HOURS	Plan	current	25,720	27,360	32,304	27,360	25,200	33,120	27,104	29,120	36,520	30,160	30,400	35,952	360,320
		cumulative	25,720	53,080	85,384	112,744	137,944	171,064	198,168	227,288	263,808	293,968	324,368	360,320	
‡ Negative due to correction to prior period accruals.	Actual	current	23,616	26,406	33,771	29,131	26,925	34,955	28,914	30,708	37,845				272,271
		cumulative	23,616	50,022	83,793	112,924	139,849	174,804	203,718	234,426	272,271				

SECTION III

EQUAL OPPORTUNITY PERFORMANCE

III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Fifth Annual Work Plan for March, measured on the basis of accrued total cost was 19.4%, 2.4% above the 17% goal. The cumulative percentage for the Fifth Annual Work Plan was 18.4%, 1.4% above the 17% goal (Figure 1).

WBE Participation

The monthly WBE participation for the Fifth Annual Work Plan for March, 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 25% and 1.4% respectively.

LOS ANGELES METRO RAIL

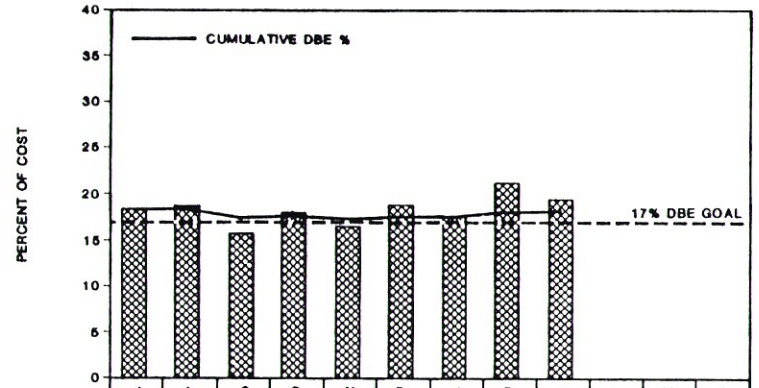
PDCD

RTD

CONTRACT PERFORMANCE REPORT

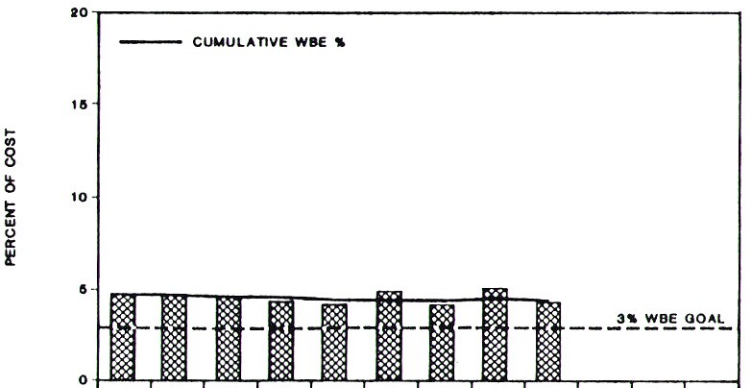
FIFTH ANNUAL WORK PLAN

PERIOD MARCH 1989



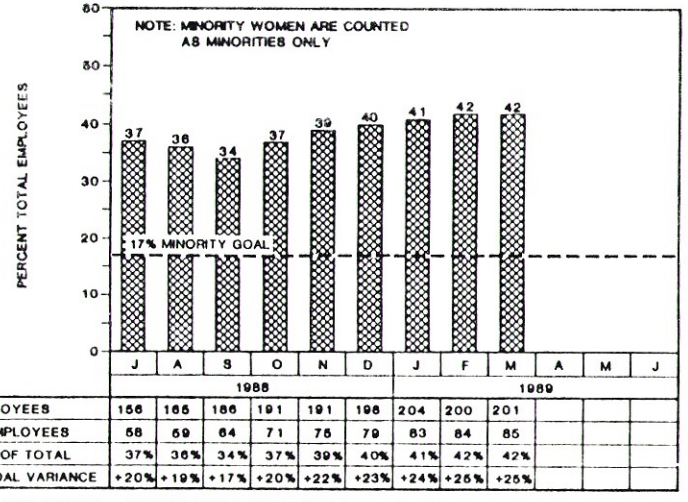
($000)	J	A	S	O	N	D	J	F	M	A	M	J
	1988						1989					
TOTAL MONTHLY COST	1,137	1,246	1,537	1,366	1,279	1,656	1,412	1,362	1,724			
CUMULATIVE COST	1,137	2,383	3,920	5,306	6,585	8,241	9,653	11,015	12,739			
MONTHLY DBE COST	210	234	244	254	212	312	250	289	335			
CUMULATIVE DBE COST	210	444	688	942	1,154	1,466	1,716	2,005	2,340			
MONTHLY DBE %	18.5	18.8	15.9	18.3	16.6	18.8	17.7	21.2	19.4			
CUMULATIVE DBE %	18.5	18.6	17.6	17.8	17.5	17.8	17.8	18.2	18.4			

FIGURE 1 - DBE ANALYSIS



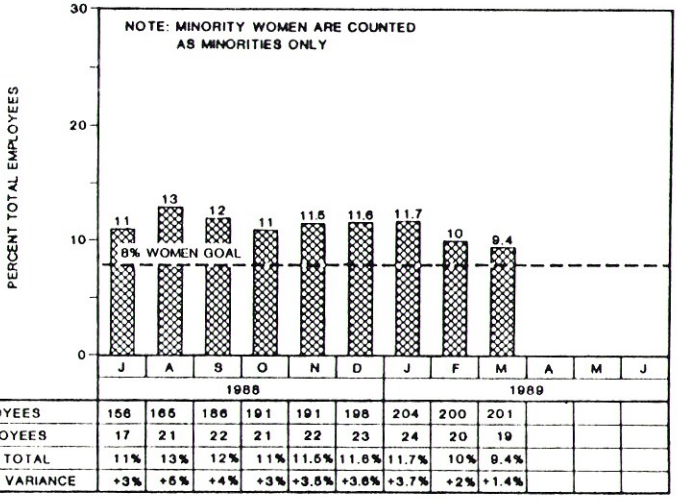
($000)	J	A	S	O	N	D	J	F	M	A	M	J
	1988						1989					
TOTAL MONTHLY COST	1,137	1,246	1,537	1,366	1,279	1,656	1,412	1,362	1,724			
CUMULATIVE COST	1,137	2,383	3,920	5,306	6,585	8,241	9,653	11,015	12,739			
MONTHLY WBE COST	54	60	72	61	55	81	61	70	75			
CUMULATIVE WBE COST	54	114	186	247	302	383	444	514	589			
MONTHLY WBE %	4.8	4.8	4.7	4.4	4.3	4.9	4.3	5.1	4.4			
CUMULATIVE WBE %	4.8	4.8	4.7	4.7	4.6	4.6	4.6	4.7	4.6			

FIGURE 2 - WBE ANALYSIS



	J	A	S	O	N	D	J	F	M	A	M	J
	1988						1989					
TOTAL EMPLOYEES	156	165	186	191	191	198	204	200	201			
MINORITY EMPLOYEES	58	59	64	71	75	79	83	84	85			
MINORITY % OF TOTAL	37%	36%	34%	37%	39%	40%	41%	42%	42%			
MINORITY GOAL VARIANCE	+20%	+19%	+17%	+20%	+22%	+23%	+24%	+25%	+25%			

FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS



	J	A	S	O	N	D	J	F	M	A	M	J
	1988						1989					
TOTAL EMPLOYEES	156	165	186	191	191	198	204	200	201			
WOMEN EMPLOYEES	17	21	22	21	22	23	24	20	19			
WOMEN % OF TOTAL	11%	13%	12%	11%	11.5%	11.6%	11.7%	10%	9.4%			
WOMEN GOAL VARIANCE	+3%	+5%	+4%	+3%	+3.5%	+3.6%	+3.7%	+2%	+1.4%			

FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

SECTION IV

SCHEDULE PERFORMANCE

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IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 394 submittals were received from the Construction Contractors and 233 were carried over from February. 384 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 (243) are still under review.

Contracts	Carryover From Feb.	No. of Submittals Received in March	Submittals Processed Within 30 Days	Submittals Processed In Over 30 Days	Carryover to April
A112	11	20	17	2	12
A130	42	43	59	3	23
A135	20	24	31	0	13
A135BH	6	31	24	0	13
A141	13	26	26	1	12
A145/A145A	21	15	24	0	12
A146	3	10	7	0	6
A165	38	76	69	1	44
A171	20	36	27	1	28
A175	10	27	16	0	21
A610/A115	6	7	10	0	3
A612	1	4	3	1	1
A615	1	3	1	0	3
A616	2	12	6	0	8
A620	16	22	18	0	20
A630	9	5	10	0	4
A640	1	7	5	0	3
A710	4	6	5	1	4
A732	1	0	0	0	1
A740	6	10	10	0	6
A745	2	3	3	0	2
A750	0	2	1	0	1
A795	0	5	2	0	3
Total	233	394	374	10	243

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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 reviews for A147/100%, Civic Center Station, Stage II; and A135/100% Union Station West Entrance.

Training Programs

The following training programs were underway during the March period:

A. SAFETY TRAINING FOR UNDERGROUND CONSTRUCTION - Training in safety conduct during underground construction covering use of self-rescuers; fire extinguishers and other safety equipment. Three separate sessions were held with representatives from LACTC (6), MRTC (6) and County Supervisors' groups (12).

B. AMTRAK SAFETY TRAINING - Training for PDCD and RTD personnel in safety relative to working on and in the vicinity of railroad tracks and use of proper safety gear. Two sessions were held with representatives from SCRTD (14), DIA (2) and PDCD (5).

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD
2-25-89 TO 3-31-89

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	04-21-89*			*NOT SCHEDULED, IN-HOUSE TARGET DATE IS 4-21-89
A-117	YARD SITE LIGHTING	SPEC	DC100%		03-31-89	04-21-89*			*NOT SCHEDULED, IN-HOUSE TARGET DATE IS 4-21-89
**									
A-135B	UNION STATION MODIFICATION (WEST ENTRANCE)	DWGS	FS100%		02-27-89	03-17-89	03-17-89		
**									
A-147	CIVIC CENTER STATION (STAGE II)	DWGS	DC100%		02-14-89	03-06-89	03-17-89		
A-147	CIVIC CENTER STATION (STAGE II)	SPEC	DC100%		02-14-89	03-06-89	03-17-89		ADDITIONAL COMMENTS ON 3-29-89
**									

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 4-1-89, MRTC Design Review Schedule

SECTION V

COST PERFORMANCE

V. COST PERFORMANCE

FIFTH ANNUAL WORK PLAN

Total incurred costs of $1,665,176 (Page 25) for CM Direct Services (without General Condition Items) for the period were under the plan of $1,679,136 by $13,960. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by $31,805 and Labor expenditures (total PDCD and subcontractors) being over the plan by $17,845.

The cumulative costs for Total CM Services (including General Condition Items) incurred through March were $12,738,972 against a plan of $12,877,601 resulting in an under plan expenditure of $138,629 (Page 25).

The March CPR forecasts (Page 25) an estimate at completion of $17,608,829 versus a plan of $17,625,378 for an underexpenditure of $16,549. Extracting the General Condition Items and reporting them separately, the March CPR forecasts a CM Direct Services estimate at completion of $16,702,959 versus a plan of $16,961,078 for an under plan expenditure of $258,119.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of $58,157 were over the plan of $44,192 for the period by $13,965. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of $905,870 versus a plan of $664,300, for a projected overplan expenditure of $241,570. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was $40.85/hr. compared to a plan rate of $41.84/hr., resulted in a difference of $0.99(+) per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE	IMPACT ON MARCH COSTS
6.625 equivalent staff over plan @ 200 hours at $41.84/hour =	$ 55,440

RATE VARIANCE
189.225 actual staff equivalent @ 200 hours
@ $0.9934/hour = (37,595)

MARCH COST VARIANCE TO PLAN $ 17,845

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of $31,805 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VARIANCE	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE
(1)Field Office Expenses	60,994	55,403	- 5,591	535,863	472,752	- 63,111
(2)Office Equipment	16,371	8,178	- 8,193	132,787	90,451	- 42,336
(3)Travel & Relocation	28,550	18,623	- 9,927	239,350	90,164	-149,186
(4)Vehicles & Maintenance	6,462	5,914	- 548	76,997	39,857	- 37,140
(5)Reproduction	7,469	4,244	- 3,225	56,488	47,276	- 9,212
(6)Telephone & Telex	9,238	5,745	- 3,493	69,864	49,494	- 20,370
(7)Computer Operation Support	3,242	6,555	3,313	29,178	17,708	- 11,470
(8)Gross Receipt Tax	9,213	9,408	195	68,847	68,408	- 439
(9)Field Equipment	9,513	5,177	- 4,336	77,161	43,611	- 33,550
S/T ODC's	151,052	119,247	-31,805	1,286,535	919,721	-366,814

NOTES

(1) Field Office Expenses - underexpenditure due to underrun in equipment maintenance and supplies.
(2) Office Equipment - underexpenditure due to correction to prior period accruals.
(3) Travel and Relocation - underexpenditure due to planned travel being delayed.
(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 a correction in computer operation support expenditure which had been booked to office equipment.
(8) Gross Receipt Tax - varies directly with the actual cumulative rate of expenditure per period.
(9) Field Equipment - underexpenditure due to correction of prior period accruals.

CM COST PERFORMANCE - MARCH 1989
FIFTH ANNUAL WORK PLAN
CONSTRUCTION
($000)

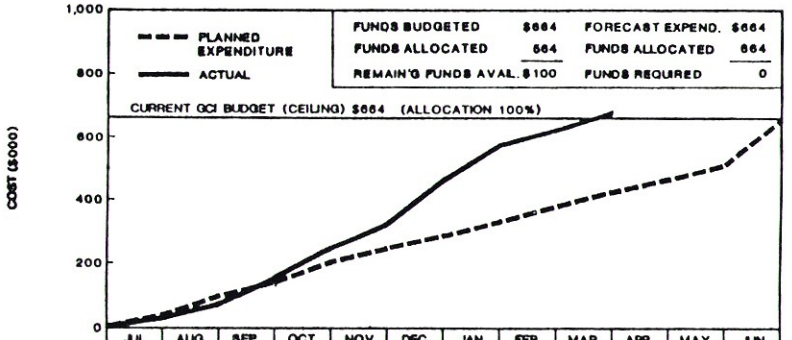
	PLANNED	ACTUAL	VARIANCE	%
PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH FEBRUARY	$ 6166	$ 6161	$ (5)	-0.08%
CURRENT MONTH	968	1000	32	3.31%
CUMULATIVE THROUGH MARCH	$ 7134	$ 7161	$ 27	0.44%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH FEBRUARY	$ 1136	$ 800	$ (336)	-29.58%
CURRENT MONTH	151	120	(31)	-20.53%
CUMULATIVE THROUGH MARCH	$ 1287	$ 920	$ (367)	-32.31%
SUBCONTRACTORS				
CUMULATIVE THROUGH FEBRUARY	$ 3,465	$ 3,424	$ (41)	-1.18%
CURRENT MONTH	560	545	(15)	-2.68%
CUMULATIVE THROUGH MARCH	$ 4,025	$ 3,969	$ (56)	-1.39%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH FEBRUARY	$ 10,767	$ 10,385	$ (382)	-3.55%
CURRENT MONTH	1,679	1,665	(14)	-0.83%
CUMULATIVE THROUGH MARCH	$ 12,446	$ 12,050	$ (396)	-3.18%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH FEBRUARY	$ 388	$ 631	$ 243	62.63%
CURRENT MONTH	44	58	14	31.82%
CUMULATIVE THROUGH MARCH	$ 432	$ 689	$ 257	59.49%
TOTAL CM SERVICES				
CUMULATIVE THROUGH FEBRUARY	$ 11,155	$ 11,016	$ (139)	-1.25%
CURRENT MONTH	1,723	1,723	0	0.00%
CUMULATIVE THROUGH MARCH	$ 12,878	$ 12,739	$ (139)	-1.08%
HOURS				
CUMULATIVE THROUGH JANUARY	227,288 hrs	234,426 hrs	7,138 hrs	3.14%
CURRENT MONTH	36,520	37,845	1,325	3.63%
CUMULATIVE THROUGH FEBRUARY	263,808 hrs	272,271 hrs	8,463 hrs	3.72%

LOS ANGELES METRO RAIL

PDCD

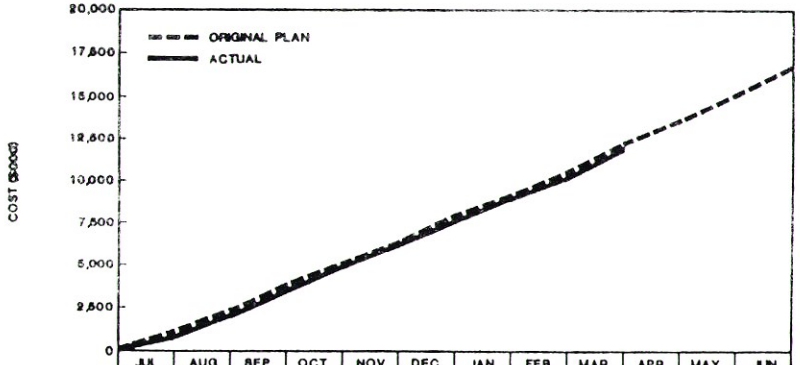
CONTRACT PERFORMANCE REPORT
FIFTH ANNUAL WORK PLAN

PERIOD MARCH 1989



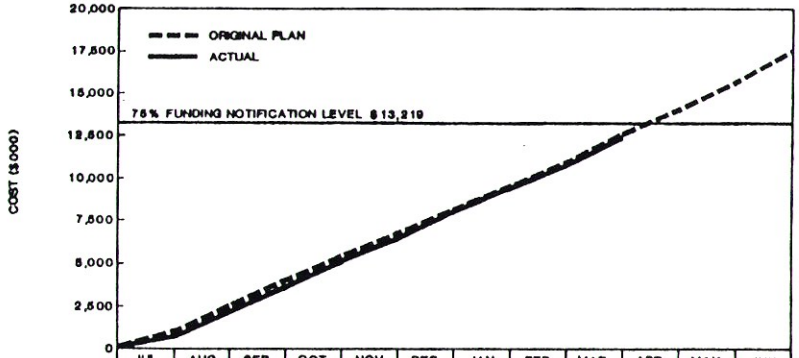
		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1988						1989					
PLANNED EXPEND.		44	105	150	211	255	299	343	388	432	476	520	664
ACTUAL		39	80	166	260	333	470	581	631	689			
VARIANCE		(5)	(25)	16	49	78	171	238	243	257			
FORECAST	ETC	620	583	498	403	331	266	311	270	217			
	EAC	659	663	664	663	664	738	892	901	906			

GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1988						1989					
PLAN		1,244	2,556	4,060	5,359	6,564	8,111	9,389	10,767	12,446	13,809	16,302	16,961
ACTUAL		1,098	2,303	3,764	5,046	6,252	7,770	9,072	10,386	12,050			
VARIANCE		(146)	(253)	(306)	(313)	(312)	(341)	(317)	(382)	(396)			
FORECAST	ETC	16,667	14,657	13,207	11,916	10,709	9,117	7,660	6,339	4,653			
	EAC	16,965	16,962	16,961	16,962	16,961	16,887	16,732	16,724	16,703			

CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1988						1989					
PLAN		1,266	2,662	4,210	5,670	6,819	8,411	9,732	11,165	12,878	14,345	15,622	17,625
ACTUAL		1,137	2,383	3,920	5,308	6,585	8,241	9,853	11,016	12,739			
VARIANCE		(161)	(279)	(290)	(264)	(234)	(170)	(79)	(139)	(139)			
FORECAST	ETC	16,487	16,242	13,706	12,319	11,040	9,385	7,971	6,609	4,870			
	EAC	17,624	17,625	17,625	17,625	17,625	17,625	17,624	17,625	17,609			

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

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING MAR 31, 1989
REPORT SUMMARIZED BY RESPONSIBILITY
CONSTRUCTION
GENERAL CONDITION ITEMS

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VAR.	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE	ESTIMATE TO COMPL	AT COMPLETION DOLLARS BUDGET	ESTIMATE	VARIANCE
B GUARD SERVICES	7,750	2,475	-5,275	69,750	53,812	-15,938	23,250	93,000	77,062	-15,938
D FIELD OFFICE TRAILERS	0	0	0	34,000	0	-34,000	0	34,000	0	-34,000
E CLEAN-UP OF FIELD SITES	0	2,523	2,523	0	13,253	13,253	10,000	0	23,253	23,253
F WTF EXPENSES	0	-8,474	-8,474	0	24,703	24,703	0	0	24,703	24,703
G SIGNS AND BARRICADES	0	5,945	5,945	0	42,317	42,317	0	0	42,317	42,317
X CONSTRUCTION PHOTO	3,525	10,688	7,163	31,725	39,960	8,235	13,575	42,300	53,535	11,235
Y TESTING PROGRAM	32,917	45,000	12,083	296,253	515,000	218,747	170,000	395,000	685,000	290,000
S/T ALLOCATED	44,192	58,157	13,965	431,728	689,045	257,317	216,825	564,300	905,870	341,570
Z UNALLOCATED	0	0	0	0	0	0	0	100,000	0	-100,000
S/T GEN. COND. ITEMS	44,192	58,157	13,965	431,728	689,045	257,317	216,825	664,300	905,870	241,570

MTA LIBRARY

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING MAR 31, 1989
REPORT SUMMARIZED BY RESPONSIBILITY
CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VAR.	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE	ESTIMATE TO COMPL	AT COMPLETION DOLLARS BUDGET	ESTIMATE	VARIANCE
A PROJECT MANAGEMENT	103,666	100,714	-2,952	783,715	741,603	-42,112	274,721	1,049,100	1,016,324	-32,776
C FAC. CONSTRUCTION	521,026	592,062	71,036	3,719,611	4,125,924	406,313	1,591,316	5,131,561	5,717,240	585,679
E SYSTEMWIDE CONST	61,798	62,549	751	443,209	437,017	-6,192	203,055	605,480	640,072	34,592
F GENERAL SERVICES	104,125	118,861	14,736	813,807	931,835	118,028	311,647	1,084,962	1,243,482	158,520
K PROJECT CONTROLS	263,766	218,136	-45,630	1,888,306	1,428,455	-459,851	624,027	2,581,921	2,052,482	-529,439
L PROCUREMENT	26,664	19,708	-6,956	201,580	175,657	-25,923	69,340	269,840	244,997	-24,843
M ENG. SVCS./SYST. INTEGR.	219,690	226,022	6,332	1,548,056	1,709,819	161,763	538,438	2,108,035	2,248,257	140,222
N COMMUNITY RELATIONS	15,226	15,041	-185	115,109	101,838	-13,271	40,719	154,087	142,557	-11,530
P SAFETY	27,676	24,322	-3,354	209,231	165,483	-43,748	70,246	280,081	235,729	-44,352
Q QUALITY ASSURANCE	20,402	31,367	10,965	173,727	181,189	7,462	99,717	232,452	280,906	48,454
R PROJECT ADMIN.	42,154	40,021	-2,133	318,684	306,397	-12,287	111,749	436,598	418,146	-18,452
S EQUAL OPPORTUNITY	18,504	16,469	-2,035	139,890	93,413	-46,477	43,382	187,260	136,795	-50,465
T LABOR RELATIONS	10,702	262	-10,440	10,702	1,705	-8,997	10,702	21,405	12,407	-8,998
U LEGAL	0	0	0	40,000	3,887	-36,113	20,000	80,000	23,887	-56,113
S/T LABOR-BRDN & OH	1,435,399	1,465,534	30,135	10,405,627	10,404,222	-1,405	4,009,059	14,222,782	14,413,281	190,499
1 FIELD OFFICE EXPENSES	60,994	55,403	-5,591	535,863	472,752	-63,111	176,125	718,100	648,877	-69,223
2 OFFICE EQUIPMENT	16,371	8,178	-8,193	132,787	90,451	-42,336	39,361	181,900	129,812	-52,088
3 TRAVEL & RELOCATION	28,550	18,623	-9,927	239,350	90,164	-149,186	30,510	325,000	120,674	-204,326
4 VEHICLES & MAINT.	6,462	5,914	-548	76,997	39,857	-37,140	14,143	93,600	54,000	-39,600
5 REPRODUCTION	7,469	4,244	-3,225	56,488	47,276	-9,212	22,123	75,600	69,399	-6,201
7 TELEPHONE & TELEX	9,238	5,745	-3,493	69,864	49,494	-20,370	15,000	93,500	64,494	-29,006
8 COMPUTER OPERATION SUPPT.	3,242	6,555	3,313	29,178	17,708	-11,470	5,903	38,900	23,611	-15,289
9 GROSS RECEIPT TAX	9,213	9,408	195	68,847	68,408	-439	26,487	94,230	94,895	665
A FIELD EQUIPMENT	9,513	5,177	-4,336	77,161	43,611	-33,550	28,539	105,700	72,150	-33,550
S/T ODC'S	151,052	119,247	-31,805	1,286,535	919,721	-366,814	358,191	1,726,530	1,277,912	-448,618
W PDCD FEE	50,000	50,000	0	450,000	450,000	0	145,000	595,000	595,000	0
X S/C FEE	42,685	30,395	-12,290	303,711	275,984	-27,727	140,782	416,766	416,766	0
S/T FEES	92,685	80,395	-12,290	753,711	725,984	-27,727	285,782	1,011,766	1,011,766	0
S/T CM DIRECT SVCS	1,679,136	1,665,176	-13,960	12,445,873	12,049,927	-395,946	4,653,032	16,961,078	16,702,959	-258,119
S/T GEN. COND. ITEMS	44,192	58,157	13,965	431,728	689,045	257,317	216,825	664,300	905,870	241,570
TOTAL CM SERVICES	1,723,328	1,723,333	5	12,877,601	12,738,972	-138,629	4,869,857	17,625,378	17,608,829	-16,549

PERCENT OF BUDGET EXPENDED = 72%

NEGATIVE VARIANCE INDICATES UNDERRUN

SECTION VI

ADDITIONAL ACTIVITIES PERFORMED IN MARCH

VI. ADDITIONAL ACTIVITIES PERFORMED IN MARCH

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) Planned for PDCD's JVEB Meeting No. 15 to be held on 4/21/89.

B. Quality Assurance

(1) Identified testing requirements to A135 contractor in order to accept "used steel" for railroad and vehicle bridge.
(2) Continued review of welding submittals and provided site welding inspection for A141, A145, A165, A171 and A175.
(3) Conducted fabrication inspections at ORECOR (A165), Cowelco Manufacturing (A135), Eckman (A145), Paramount Metals (Various) and Stockton Tri-Industries (A135).
(4) Conducted audits at Aerovent (A745) and GRS (A620).
(5) Submitted to RTD for approval the Safety Certification File content for facility contracts, using A112 as initial case.
(6) Continued monitoring of the testing lab subcontract and prepared AWP 6 testing budget.
(7) Witnessed hydrotests on wet standpipe fire water lines for A165 and A175 and reviewed NCR on FW piping on A171.
(8) Conducted HDPE QC inspections, distributed memo to A141, A165, A171 and A175 identifying improved HDPE test reporting procedure.
(9) Conducted reinforcing steel and concrete placement QC inspections on (A130 and A141).
(10) Participated in discussions with RTD and BAH on contract closeout procedures and with RTD on procedure for preparation of as-built drawings.

C. Equal Opportunity Administration

(1) Monitored Equal Opportunity reporting requirements for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A640, A710, A732, A740, A745 and A795.
(2) Conducted project site visits/employee interviews at the following sites: A112, A130, A135, A141, A145, A146, A165, A171, A175 and A610/A115.
(3) Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for Contracts A112, A130, A135, A141, A145 and A165.

D. Contracts and Procurement

(1) Continued purchasing activities, administration of test lab, photo, cleanup and security service subcontracts and administration and issuance of Work Releases for the Associate Subcontracts.
(2) Prepared subcontract modifications for AWP 6.

E. Community Relations

(1) Coordinated community notifications and traffic control assistance for A141, A145, A146, A165 and A175.
(2) Coordinated and assisted in the development of traffic mitigation for tenants along Hill St. affected by A145 and A146 traffic access plans, and for tenants in the 7th/Flower area affected by A165.
(3) Provided assistance to A141, A145, A146 and A165 for problems caused by street closures and lane restrictions, blocked access, noise, building damage, and accidents.
(4) Provided information to RTD in support of their reorganization of Metro Rail Community Relations section within TSD.
(5) Provided assistance in coordinating 10 site visits and responding to 10 media requests.
(6) Processed 43 inquiries/complaints.

F. Safety and Security

(1) Performed daily site safety, health and security surveillances on a two shift basis and prepared written reports for the A112, A130, A135, A141, A144, 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 subcontractor.
(3) Completed revisions to the Construction Safety and Security Manual in conjunction with SCRTD/DIA and submitted to SCRTD for final approval.

G. Construction Operations

(1) Continued construction management (CM) services for Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, 4984 (formerly A750), 4986 (formerly A750B) and A795; monitoring of utilities relocations, and submittal reviews.
(2) Continued coordination of traffic control plans and street closures with city agencies for A130, A141, A146 and A165.
(3) Continued coordination of MOS-1 inspections with LADOT.
(4) Obtained CalTrans' encroachment permit extension for crossing under Hollywood Freeway at Hill St. overcrossing (A141).
(5) Obtained occupancy permit for Amtrak machine shop (A141).
(6) Processed a total of 36 Traffic and Utilities related submittals.
(7) Coordinated construction of a contaminated soil storage area in accordance with Department of Health Services variance requirements (A144).
(8) Submitted "Permit to Construct" application to the Southern California Air Quality Management District (SCAQMD) for two vapor extraction systems at the contaminated soil storage site (A144).
(9) Supervised and inspected on-going asbestos abatement activities at A135.
(10) Continued monitoring removal and separation of contaminated soil at A130.
(11) Submitted January L.A. River Total Dissolved Solids Report to RTD for transmittal to the Central and West Basin Water Replenishment District (CWBWRD).
(12) Continued monitoring of L.A. River and Ballona Creek receiving water monitoring stations.
(13) Continued monitoring construction daily discharges at A141, A144, A145, A146, A171 and A175.
(14) Reviewed contractor submittals for high pH concrete wash waste neutralization system (A165).
(15) Performed a special study to determine source of highly contaminated influent into the GWTF (A144).
(16) Submitted final closure reports for underground tank sites at A145 and A175.
(17) Submitted February Discharge Monitoring Report (DMR) to SCRTD for transmittal to the California Regional Water Quality Control Board (CRWQCB).
(18) Continued monitoring removal and disposal of contaminated soil at A145 by 4986 (formerly A750B) Contractor.
(19) Reviewed two 4984 (formerly A750) submittals for asbestos abatement at A135 and two claims for A135 boiler room abatement.
(20) Continued checking contractor's control points and layout (MOS-1).
(21) Continued performing as-built cross sections of AL Tunnel invert pour (A171).

(22) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175.
(23) Continued as-built survey of AR Tunnel (A141).
(24) Continued location survey at shops and yards contracts.
(25) Checked slabs poured at A141 and A175 excavations.
(26) Performed invert alignment as-built survey of AL Tunnel (A171).
(27) Began performing as-built cross section of AR Tunnel invert pour (A171).

H. Engineering Services

(1) Completed efforts to obtain CalTrans permits to install geotechnical instrumentation at Hollywood Freeway in Contract A141.
(2) Carried out field investigation in Contract A175 where low bearing materials were encountered in passageway invert and recommended excavating another 6" for possible find of good bearing material.
(3) At the request of the District, set up system to have Civic Center Station instrumentation data delivered and analyzed for changes in strut loads on a daily basis.
(4) Completed and delivered a tabulation of geologic data and loading criteria from 22 Los Angeles foundation excavations with some similarity to Metro Rail cut-and-cover excavations.
(5) Relative to the Civic Center Station strut/tie-back loadings:

- o Composed a statement for use in discussing the Civic Center Station strut loadings with the L.A. County Board of Supervisors.
- o Delivered to the District for re-transmittal to County Board of Supervisors consultants, a package of Civic Center Station strut/tieback loading data plus a memorandum on station geologic conditions.
- o Assembled and mailed to County Board of Supervisors consultant, Mr. Bing Yen, Civic Center Station materials, including south end plans, profiles, cross sections, sketches, construction geology maps, strut photographs, and instrumentation monitoring data.

(6) Completed a one-week long study of three daily strut load and temperature readings in Civic Center Station as a check on the relationships between loads and temperature and as a cross check on monitoring data submitted by the Contractor.
(7) Completed the detailed study plan outline for the A141 Excavation Support System Design Criteria Verification Study.
(8) Completed and transmitted the findings from subtasks A1 through A5 in the A141 Study Plan, encompassing Civic Center Station support loads and excavation depths through time.

(9) Responded to 73 requests for information or documentation clarification from various Contractors.
(10) Processed 58 field inquiries with MRTC to obtain clarification of design requirements.
(11) For Contract A112 - Approved 11 Contractor submittals for samples and specifications on coil wing nut, color charts for telescoping doors, plans for interior siding, Certificate of Compliance for manhole frames and covers, Atlas door, electrical controls, HVAC structural design, formica product data, wire/cable, and wheel storage truck.
Approved-as-Noted 5 Contractor submittals for product data for access floor system, HVAC items, wheel press rebar, paint samples, and a formica sample.
Rejected 3 Contractor submittals for metal decking, fire protection hydraulic calculations, and color samples.
(12) For Contract A130 - Approved 25 Contractor submittals for calculations for soldier pile and lagging design, rebar for west retaining wall, data fact sheet for electrical wire 600 volt, concrete mix design, retaining wall lift drawings, concrete compression test, instrument locations, storm drainage system, design of tieback to soldier pile connection, overhead coiling door, lagging certifications, Fire Department connection, mill test report, base slab "U" section retaining wall, 8" check valves, post indicators for fire protection gate valve, sanitary sewer/manhole frame and cover, product data sheets for vitrified clay pipe and fittings, water flow indicator data sheets, welder qualification test record and license, mortar for concrete masonry units, yard lighting/foundation details, and rebar mill test for slurry wall panels.
Approved-as-Noted 18 Contractor submittals for support of excavation, magnesium anodes, 6" check valves, and meter box, double leaf steel access door, Certificates of Compliance for corrosion control equipment, "U" section retaining wall lift drawing, shoring drawings for jack pits, revised fire protection details, tieback connections to soldier pile, tieback design for slurry wall and testing procedure, calculations for end bulkhead design, ceramic weld couplings 8" and 15" VCP, product data sheets for precast manhole units and concrete rings, form drawing for two cell box wall, lift drawing for Union Station crossover, concrete mix designs, and rebar for west wing wall and footing.
Rejected 18 Contractor submittals for calculations and data sheets field testing of tiebacks, design of tieback to soldier pile connection, hollow metal door and frame, ground rods, car wash - preliminary installation, HDPE membrane, underpinning Bent #4, vent system material specifications, ductible iron pipe fittings, pipe support details and material compliance, concrete mix designs, underpinning alternate busway support, west retaining wall form drawing, sanitary sewer manholes/premold joint filler, data fact sheets for storm drain system, and inclinometer readout devices.
Reviewed for Record Only 1 Contractor submittal for communications and lighting ductbank.
(13) For Contract A135 - Approved 13 Contractor submittals for electrical cable size 1/0 and smaller, ductbank suspended from vehicle bridge,grounding rods, rebar mill test reports, procedure/tracks 6 and 7, concrete break tests, and backfill for jacked piping casing.

Approved-as-Noted 13 Contractor submittals for Geofon instrument locations, 600V and 35KV cable data, Geofon response to comments, technical resumes, and organization charts, vehicular bridge design, design calculations - tieback anchor sleeves, lift drawings Substations B & C, quality assurance for HDPE, fire protection sprinkler system, temporary support for Baggage Handling, and concrete mix design.
Rejected 4 Contractor submittals for Sub-station B and C transformers and panelboards, ground rods, holophane lighting fixtures, and various concrete mix designs.
Reviewed for Record Only 1 Contractor submittal for steel access door.

(14) For Contract A135BH (Baggage Handling) - Approved 17 Contractor submittals for anchor bolt plan, column anchor bolt plan details and templates, framing plans, BTM chord bracing plan, roof framing plan, elevations, truss details, column details, steel columns, Nelson stud welding specifications, mill test reports, FESCO board, and wall infill pour sequence.
Approved-as-Noted 6 Contractor submittals for stair 4 tube columns, plumbing - HVAC - fire protection, welding procedures, material certification, overhead door, and HVAC layout in basement.
Rejected 1 Contractor submittal for welders' license numbers.

(15) For Contract A141 - Approved 11 Contractor submittals for mechanical division mill certificates and delivery tickets, mill certs for domestic 4" pipe, concrete lift drawing for south blast relief shaft, welder certificates, delivery tickets and material certificates - 6" and 8" pipe fittings, Nelson stud weldability qualifications, sketches SK-1, SK-2 and SK-3, closure drawing, and traffic plan at Union Station.
Approved-as-Noted 8 Contractor submittals for reinforcing post-tensioning services/drawings, design calculations - "Progressive Shoring" system data, concrete lift drawing for south blast relief shaft, rebar drawings and concrete form tie system.
Rejected 5 Contractor submittals for sump pump forming system package, welder certificates, Tutor-Saliba-Perini modification north blast relief shaft, and lane closure drawing.
Reviewed for Record Only 3 Contractor submittals for schedule data and narrative reports.

(16) For Contract A145 - Approved 11 Contractor submittals for fuse data, alternate meter socket and heavy duty fused disconnect switch, welders' qualifications and licenses, calibration test report for backup gauge, hardware data and certificates, plastic form data sheet and samples, and state licenses - land surveyor.
Approved-as-Noted - 12 Contractor submittals for telephone line supports design calculations, Equitable Building switchboards, station protection materials, escutcheons, hangers temporary 36" storm drain pipe/sewer pipe, material certificates and test reports, calculations base slab bulkhead form drawings, and exterior wall form details and calculations.
Reviewed for Record Only 1 Contractor submittal for a narrative report.

(17) For Contract A146 - Approved 1 Contractor submittal for a traffic control plan.
Approved-as-Noted 4 Contractor submittals for various traffic control plans.
Rejected 2 Contractor submittals for schedules.

(18) For Contract A165 - Approved 32 Contractor submittals for welding procedures, various lift drawings, service walkway lift drawing, architectural layout - South Flower Street, rebar mill test reports, rebar shop drawings - exterior walls, fire protection materials, product data for electrical items, Greenstreak waterstop, responses to review comments for support system, and mill certificates for pipe struts.
Approved-as-Noted 32 Contractor submittals for design calculations - excavation support system for north bulkhead, miscellaneous structural embeds and non-embeds, 7th Street Level C bracing layout drawings, "B" and "C" Level bracing details/drawing, 24x12 reinforced concrete box culvert, various lift drawings, plan/pouring plans, station column welding procedures and welder certificates, testing procedures, and lift drawing - Roosevelt Building footings.
Rejected 6 Contractor submittals for cement wash water neutralization, fire protection welding procedures, excavation support system, and formwork.

(19) For Contract A171 - Approved 9 Contractor submittals for pressure doors & frames catalog data, Ferrule insert in tunnel arch liner, catalog data hot dip galvanized rigid conduit, junction box for type X tunnel lights, blue light fixture type Z, AR tunnel lines and grade corrections, floating slabs elastomeric pads, and wet standpipe painting MFG data.
Approved-as-Noted 12 Contractor submittals for cast-in-place concrete linings, stray current monitoring facilities, permanent electric material channel clamps, motor controls for exhaust fans, terminal block and sheet metal enclosure, sump pump control panel, AR tunnel invert concrete drawings, wet standpipe system, walkway concrete drawings and catalog data, arch lift drawings, and cathodic protection materials.
Rejected 6 Contractor submittals for tunnel light fixtures type X, and blue light fixture type Z.
Reviewed for Record Only 1 Contractor submittal for exit light fixture - type Y.

(20) For Contract A175 - Approved 8 Contractor submittals for calculations concrete formwork, rebar drawings, northwest blast relief shaft roof formwork calculations, and literature for HDO plyform.
Approved-as-Noted 4 Contractor submittals for Geofon, Inc. resumes, rebar drawings, ground system test procedures, and conduit banding radius.
Rejected 2 Contractor submittals for precast concrete/walkway cover and cross passage cover, and manufacturer's literature type H sleeve.
Reviewed for Record Only 2 Contractor submittals for air testing vs. water testing, and grounding systems testing procedure.

(21) For Contract A610/A115 - Approved 6 Contractor submittals for valve box assembly 8" PVC pipe class 200, dowel detail for MH# 75 and epoxy adhesive, No. 8 lateral switch non-electrified, sanitary sewers manhole frame and cover casting inspection and test, storm drain manhole frame and cover casting inspection and test reports, and Certificate of Compliance for frames and covers - SD and SS manholes.
Approved-as-Noted 4 Contractor submittals for underground duct bank drawings, and Monthly Progress Status Reports and schedule updates.

(22) For Contract A612 - Approved 2 Contractor submittals for test program plan.
Approved-as-Noted 2 Contractor submittals for shop drawing details, and proposed test procedures.

(23) For Contract A615 - Approved-as-Noted 1 Contractor submittal for shop drawing details.

(24) For Contract A616 - Approved 6 Contractor submittals for Lot Numbers 4, 5, 6, 8 and 9 production elastomer test results.

(25) For Contract A620 - Approved 8 Contractor submittals for signal layout data and drawing, yard switch machine data and layout drawing, block design, power supply and rectifier, printed circuit board data, mainline switch machine layout and drawing, and battery data and installation data.
Approved-as-Noted 9 Contractor submittals for portable test set, ATC vehicle equipment schematic, brake assurance equipment details, yard final design review, control panel layout and mechanical drawings, and ACT vehicle carried subsystem and portable test set-final design review.
Rejected 1 Contractor submittal for factory test procedures.

(26) For Contract A630 - Approved 1 Contractor submittal for installation drawing for AC/DC conversion assembly.
Rejected 9 Contractor submittals for quality assurance program, manufacturing plan, configuration plan, serialized items list, drawing list, test program plan, 38 KV switchgear, and installation data and product description - 38KV switchgear/750 VDC switchgear/480VAC switchgear.

(27) For Contract A640 - Approved-as-Noted 1 Contractor submittal for product literature, reports, diagrams and samples.
Rejected 3 Contractor submittals for floor plans, TC&C & Communications Equipment Room, and public address subsystem - manufacturer's literature and specifications.
Reviewed for Record Only 1 Contractor submittal for mobile radio installation plans/drawings.

(28) For Contract A710 - Approved 2 Contractor submittals for schedule updates.
Approved-as-Noted 4 Contractor submittals for escalator configuration drawing, factory quality assurance program, and escalator shop drawings.

(29) For Contract A740 - Approved 3 Contractor submittals for test procedures for sound attenuators and dampers, and fans for alarm detectors.

Approved-as-Noted 4 Contractor submittals for fan assembly dimensions, foundation details, and general assembly drawings.
Rejected 3 Contractor submittals for schedule update, test report 50 HP motor, and test report 250 HP motor.

(30) For Contract A745 - Approved 1 Contractor submittal for progress report air handling equipment.
Approved-as-Noted 1 Contractor submittal for progress report and schedule.
Rejected 1 Contractor submittal for January 1989 report and schedule.

(31) For Contract A750 - Rejected 1 Contractor submittal for chemical waste agreement.

(32) For Contract A795 - Approved-as-Noted 1 Contractor submittal for UPS bar chart schedule and narrative.
Rejected 1 Contractor submittal for UPS Schedule of Values.

I. Project Controls

(1) Processed Change Requests: A112-CR-107, A112-CR-108, A112-CR-111, A112-CR-112, A130-CR-024, A130-CR-025, A130-CR-027, A135-CR-034, A135-CR-038, A135-CR-039, A135-CR-040, A135-CR-041, A135-CR-042, A135-CR-043, A135-CR-045, A141-CR-097A, A141-CR-102, A141-CR-103, A141-CR-106, A141-CR-107, A144-CR-014, A144-CR-015, A144-CR-016, A144-CR-018, A144-CR-019, A144-CR-020, A144-CR-021, A145-A145A-CR-120, A145/A145A-CR-125, A145/A145A-CR-126, A145/A145A-CR-129, A145/A145A-CR-130, A146-CR-030, A165-CR-036, A165-CR-046, A165-CR-047, A165-CR-049, A165-CR-050, A165-CR-051, A165-CR-052, A165-CR-053, A165-CR-055, A165-CR-056, A165-CR-058, A165-CR-059, A165-CR-061, A165-CR-063, A165-CR-064, A175-CR-038, A175-CR-041, A175-CR-044, A610/115-CR-054, A610/115-CR-055, A610/115-CR-056, A610/115-CR-059, A610/115-CR-061, A610/115-CR-062 and A616-CR-011.

(2) Processed Change Notices: A130-CN-004, A130-CN-012, A130-CN-013, A130-CN-016, A135-CN-010, A135-CN-015, A135-CN-016, A141-CN-060, A141-CN-061, A144-CN-001, A144-CN-002, A145/145A-CN-033, A146-CN-010, A165-CN-029, A165-CN-030, A175-CN-024, A610/115-CN-029, A610/115-CN-030, A610/115-CN-031, A610/115-CN-032, A620-CN-025, A640-CN-003, A640-CN-007 and A640-CN-008.

(3) Processed Change Orders: A112-CO-004B, A112-CO-010, A112-CO-011B, A112-CO-035B, A112-CO-040, A112-CO-041, A112-CO-042, A112-CO-043, A112-CO-045, A121-CO-004A, A121-CO-005, A121-CO-006, A121-CO-008, A121-CO-009, A121-CO-010, A121-CO-012, A121-CO-013, A121-CO-014, A121-CO-015, A121-CO-016, A121-CO-017, A135-CO-002P, A135-CO-002Q, A135-CO-002R, A135-CO-010, A135-CO-011, A135-CO-012, A135-CO-013, A135-CO-014, A135-CO-015, A135-CO-016, A135-CO-017, A141-CO-010F.1, A141-CO-010N.1, A141-CO-033A, A141-CO-040, A141-CO-041, A144-CO-011, A144-CO-013B, A144-CO-014, A144-CO-015, A144-CO-016, A145/145A-CO-021A, A145/145A-CO-037A, A145/145A-CO-038, A145/145A-CO-043A, A145/145A-CO-053C, A145/145A-CO-076, A145/145A-CO-077, A145/145A-CO-078, A145/145A-CO-079, A145/145A-CO-080, A145/145A-CO-081, A145/145A-CO-082, A145/145A-CO-083, A146-CO-021A, A146-CO-021B, A165-CO-012,

A165-CO-018A, A165-CO-021A, A165-CO-022, A165-CO-023, A165-CO-025, A165-CO-026, A165-CO-027, A165-CO-029, A171-CO-016, A175-CO-024, A175-CO-025, A610/115-CO-024B, A610/115-CO-035, A610/115-CO-036, A610/115-CO-037, A620-CO-006, A710/CO-002, A730-CO-002 and A740-CO-003.

(4) Processed through TRACS, executed Change Orders: A112-CO-035B, A135-CO-001F, A135-CO-008, A135-CO-010, A141-CO-010N, A141-CO-010P, A141-CO-030A, A141-CO-036, A141-CO-037, A141-CO-038, A144-CO-003, A144-CO-008, A144-CO-009, A145-CO-028A, A145-CO-052, A145-CO-070, A145-CO-072, A610-CO-030, A616-CO-007 and A740-CO-003.

(5) Processed Potential Claims: A112-PC-054, A145-PC-087, A165-PC-034, A165-PC-037, A165-PC-042, A165-PC-044, A165-PC-045, A165-PC-046, A165-PC-047, A165-PC-048, A165-PC-049, A171-PC-037, A610/115-PC-025, A610/115-PC-026, A610/115-PC-029 and A610/115-PC-032.

(6) Processed Change - Technical Evaluations: A112-CR-100, A112-CR-106, A112-CR-107, A112-CR-110, A130-CR-024, A130-CR-026, A135-CR-031, A135-CR-039, A135-CR-042, A135-CR-043, A141-CR-093, A141-CR-094, A141-CR-102, A141-CR-104, A144-CR-005, A144-CR-019, A144-CR-020, A145/145A-CR-123, A145/145A-CR-124, A145/145A-CR-127, A145/145A-CR-128, A145/145A-CR-129, A146-CR-030, A165-CR-039, A165-CR-049, A165-CR-053, A165-CR-054, A165-CR-062, A175-CR-035, A175-CR-040, A175-CR-042, A175-CR-044, A610/115-CR-051, A610/115-CR-057, A616-CR-011, A630-CR-001, A631-CR-9.005 and A640-CR-008.

(7) Processed Force Accounts: A141-CO-010F, A141-CO-010G, A141-CO-010K, A141-CO-010M, A145/145A-CO-021, A610/115-CO-004, A610/115-CO-004A, A610/115-CO-007, A610/115-CO-007A, A610/115-CO-008, A610/115-CO-008A, A610/115-CO-009, A610/115-CO-009A, A610/115-CO-012 and A610/115-CO-012A.

(8) Processed Monthly Payment Estimates for 18 Contracts: A112, A130, A135, A141, A144, A145, A146, A165, A171, A175, A610/A115, A616, A620, A640, A710, A732, A740 and A745.

(9) Completed a Close-out Audit on 2 Force Account Change Orders: A141-CO-010M and A165-CO-001.

(10) Completed recommendations on implementation plan for PC TRACS and submitted to RTD.

(11) Continued testing PC TRACS for use on the project.

(12) Continued preparation of 6th AWP proposal.

(13) Completed input to RTD Project Schedule Evaluation Report for RTD Board of Directors.

(14) Reviewed Contractor Monthly Progress Reports.

(15) Prepared Contractor progress inputs to RTD Monthly Status Report.

(16) A112-CR-068 Began review and takeoff to prepare estimate for lighting system conduits.

(17) A130-CR-017 Revised estimate for removal of buried foundation using alternate equipment rates.

(18) A130-CR-023 Completed Estimate for Hazardous Material Storage Site, attended negotiations.

(19) A130-CR-021 Reviewed contractor computations for lump sum and linear unit price items included in W. C. Ratio change, and attended meetings.

(20) A130-CR-026 Began takeoff for estimate, Communications Duct Bank Connection to Metro Rail - LAFD and PacBell.

(21) A130 Clarified Scope, prepared takeoff and estimate for credit for proposed material change in communication duct bank.
(22) A135-CR-004 Continue material takeoffs and estimates, review proposals for changes on LAUPT Baggage Handling Facility.
(23) A135-CR-020 Began review for credit due to electrical duct bank obstruction.
(24) A141-CR-097 Began estimate for additional strain gauges.
(25) A141-CR-108 Completed estimate for Hydraulic Lines Elevator Door.
(26) A141-CR-011 Met with RTD to review Tunnel equipment standby rates.
(27) A145-CR-116 Completed estimate for telephone manhole #793, attended negotiations.
(28) A145-CR-124 Completed estimates for additional strain gauges, attended negotiations.
(29) A145-CR-133 Prepared estimate for Hydraulic lines for elevators.
(30) A146-CR-030 Prepared estimate for compaction grouting within tunnel.
(31) A146 Completed development of tunnel equipment rates for Force Account.
(32) A165-CR-034 Prepared estimate for underpinning soldier piles at Home Savings, RTD entrance.
(33) A165-CR-041 Completed estimate for deletion of pavement at 7th and Figueroa intersection.
(34) A165-CR-049 Prepared preliminary estimate and reviewed contractor proposal, revisions to East bulkhead on 7th Street.
(35) A175-CR-024 Prepared estimate miscellaneous changes, safety review comments.
(36) A175-CR-038 Prepared estimate and attended negotiations, Hydraulic lines for elevator No. 2.
(37) A175-CR-044 Prepared estimate, conduit addition elevator pit No. 8.
(38) A620-CR-001 Completed estimate for revised schedule and attended negotiations.

J. CM Meetings in March 1989

Date	Agency/Company	General Subject
Feb. 28, March 7,14,21,28	RTD/MRTC	Project Status Review
Feb. 28	RTD/GRS & Mass. Electric	A620-CR-001 Revision to Schedule - Negotiations
March 1	SCAQMD	Permit to Construct Application (MOS-1)
March 1,8,15,29	LADOT	Weekly LADOT MOS-1 Inspection
March 1	RTD, BAH, MRTC, LAFD, LACOFD, LAPD, RTD Police	F/LS Safety
March 1	RTD	A165-CR-049 Revise East Bulkhead - 7th St. Interface with A146. Review Proposal and Estimate

Date	Agency/Company	General Subject
March 2	RTD/Granite	A165-CR-049 East Bulkhead - 7th Street. Review Engineering Redesign and Proposal
March 3,17,21	RTD/TS-P	A130-CR-023 Hazardous Material Storage. Negotiate Final Cost
March 3	RTD/GFAC	A145-CR-116 Telephone Manhole 793. Scope of Work and Estimate
March 3,10,17,24,31	RTD	CM Progress Review
March 6	Contractor	A145 - Additional Strain Gauges
March 6	MRTC, Peck, Brekke	A141 - Strut Loading
March 6,7,10	RTD/GFAC	A145-CR-116 Telephone Manhole 793. A145-CR-124 Strain Gauges Negotiations for Settlement
March 6,13,20,27	RTD	CCB Meeting
March 6	Smith-Emery	Testing Program
March 7	SCRTD, DIA	60% Review. B330 Safety Specifications
March 8	Utilities	Substructure Committee Meeting
March 8,23	SCRTD, DIA, Argonaut, Contractors LAFD	Project Safety Review
March 8	Stockton Tri-Industries	Fabrication Inspection
March 9	RTD, MRTC, CalTrans, Contractor	A130 - Underpinning Busway Bent No. 4
March 9	RTD/TS-P	A135-CR-004 LAUPT Baggage Handling - Review Estimates and Accept Proposals for Miscellaneous Architectural Items.
March 9	Contractor's LADWP, Insurance Carriers, Insurance Brokers, Consultants	New Safety, Health and Environmental Regulations, Cal OSHA Status
March 9,30	ORECOR	Fabrication Inspection
March 10	RTD/W. Christopher	M/R Briefing, A165 Tour
March 10	TS/G, Amtrak, LAUPT, SCRTD	Parking Problem at Union Station
March 13	Contractor	A135 - Tieback System
March 13	Contractor	A165 - Tieback System

Date	Agency/Company	General Subject
March 13	RTD	A165-CR-034 Steel Underpinning Home Savings - RTD Entrance Interface - Review Estimate and Proposal
March 13	Parsons	Photographs for Engineering News Record Article
March 13	RTD	Contaminated Soil Handling
March 14	Contractor	A130 - Tieback System
March 15	Paramount Metals	Fabrication Inspection
March 16	RTD, MRTC	A146 - Chemical Grouting
March 16	LGCA	Community Briefings; CR Activity Update
March 16	RTD	As-Builts
March 17	RTD/Granite	A165-CR-034 Underpinning Home Savings - RTD Entrance Interface - Review Scope of Work and Proposal
March 17	RTD	Closeout Procedures
March 20	RTD	Purchase of Computers and Software.
March 20	Protek	Biodegradation of Contaminated Soil
March 20	Smith-Emery	HDPE Testing
March 21	RTD/TS-P	A130- Proposed Material Changes, Communication Duct Bank
March 21	A135/LAUPT	LAUPT 50th Anniversary
March 21	BAH	Closeout Procedures
March 22	RTD	Project Control Meeting
March 22	Cowelco Mfg.	Fabrication Inspection
March 23	RTD/OCPM/PC	Claims Log
March 23	TSD/Program Controls	Reorganization of M/R-CR Section
March 24	Eckman Steel	Fabrication Inspection
March 24	RTD/L. Goldzband	MOS-1 Tour
March 27,29	GRS (A620)	Audit
March 27	GKN Hayward Baker	A130 Traffic Submittal
March 29	RTD, LAFD, MRTC, BAH	Safety Certification
March 29	RTD	A141-CR-011 Construction Easement Availability - Review Equipment Standby Rates for Delay

Date	Agency/Company	General Subject
March 30,31	Aerovent (A745)	Audit
March 30	Delon Hampton	A141 Tour
March 31	Robnett Corporation	Inspection Audit

SECTION VII

SUMMARY OF ACTIVITIES PLANNED FOR APRIL

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VII. SUMMARY OF ACTIVITIES PLANNED FOR APRIL 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) Coordinate and hold PDCD's JVEB Meeting No. 15 on 4/21/89.

B. Quality Assurance

(1) Conduct fabrication inspections at ORECOR (A165), Air Fan (A745), CSM Inc. (A746), Paramount Metal (Various), Cowelco (A135) and Eckman (A145).
(2) Finalize development and implementation Data Base III programs to correlate subcontractor's Call Notification, test reports and invoices.
(3) Develop and implement system for tracking and analyzing concrete test report data and develop system for tracking Deficiency Notices and non conformances.
(4) Continue to support R.E. staff on concrete inspection and test, HDPE testing and welding inspection.
(5) Continue to monitor S/E subcontractor cost and technical performance.
(6) Conduct audits of various system contract sub-suppliers.
(7) Continue to monitor field construction activities with particular emphasis on HDPE, reinforcing steel and concrete placement.
(8) Assist A112 in contract closeout preparation activities.

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, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745 and A795.
(2) Expand SSA&P Report comments section per UMTA request.

D. Contracts and Procurement

(1) Upon receipt of District approval of PDCD's revised request, issue Request for Quotations for five additional Personal Computers. If results of the solicitation are advantageous to District, issue procurement instruments.

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(2) Upon receipt of District approval, issue amendment to increase funding for Fifth Annual Work Plan for Associate Subcontract with Engineering-Sciences, Inc.
(3) Issue Change Order to the Photographic Services Subcontract for additional requirements to accommodate multiple reprint orders to reduce cost of such reprints.
(4) Upon receipt of District approval, issue an open agreement for office products for the balance of the 5th Annual Work Plan.
(5) Issue Requests for Quotations covering 6AWP requirements for printing and reproductions Maintenance Services Agreements, (typewriters, copies, etc.), Photographic Services and computer paper.
(6) Upon receipt of District approval, issue amendment to increase Fifth Annual Work Plan funding for Field and Laboratory Testing Services Subcontract.

E. Community Relations

(1) Continue tenant notifications on traffic access issues for A141, A145, A146, A165 and A175.
(2) Continue expanded communication activities with A130, A145, A146, A165 and A175 tenants regarding ongoing and pending construction activities.
(3) 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) Update the Emergency Response Plan (Revision No. 6).

G. Construction Operations

(1) Continue construction management (CM) services at Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, 4984 (formerly A750), 4986 (formerly A750B) and A795; monitoring of utilities relocations, and submittal reviews.
(2) Continue coordination with governmental agencies and MOS-1 inspection with LADOT.

(3) Continue monitoring of discharges from Ballona Creek and Los Angeles River and from A141, A144, A145, A165, A171 and A175.
(4) Continue review of Contractor's monitoring for wastewater discharges at A144, A145, A146, A165, A171 and A175 and noise monitoring for A171.
(5) Continue monitoring removal and disposal of contaminated soil at A130 and A145.
(6) Complete asbestos abatement work for REA building (A135).
(7) Start asbestos abatement work at A165.
(8) Prepare underground tank closure reports at A165.
(9) Obtain a variance from AQMD-Rule 1166 (required for excavation of volatile organic contaminated soil).
(10) Perform a dye study for detection of sewer leakage impacting dewatering and construction activities at Union Station (A141).
(11) Continue to monitor instrumentation, building and ground settlement marks, various contracts.
(12) Continue to check Contractor's control points and layouts.
(13) Continue to perform survey tasks as requested by R.E.s.
(14) Continue to perform as-built cross section of AL Tunnel invert pour (A171).
(15) Continue to perform as-built survey of tunnels for Contracts A141 and A146.
(16) Continue location surveys in shop and yards 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) Perform invert alignment survey of AR 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 to produce A161 as-built drawings.
*(4) Complete constructibility review for Contract A117 Yard Lighting bid documents.
(5) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.

*See Page 44

(6) Compile results from study involving intensive monitoring of temperatures and strut loads in Civic Center Station.
(7) Begin A141 Study Plan subtasks C3, 4, 5; collection and review of data on state and nationwide tectonic induced stress and support loads in excavations similar to Metro Rail cut-and-cover excavations.
(8) Begin analyzing the test data collected as part of A141 Study Plan, Task A.

I. Project Controls

(1) Process Monthly Payment Estimates for all active contracts.
(2) Process through TRACS all the executed Change Orders.
(3) Continue close-out audits for Force Account Change Orders.
(4) Continue testing PC TRACS.
(5) Continue preparations of 6th AWP.
(6) Input revisions to project schedule to reflect Board of Directors decision on evaluation recommendation report.
(7) Review Monthly Contractor Progress Reports.
(8) Prepare Scheduling inputs inputs to RTD Monthly Status Report.

DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS
4-1-89 TO 4-28-89

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	04-21-89 *			*NOT SCHEDULED, IN-HOUSE TARGET DATE IS 4-21-89
A-117	YARD SITE LIGHTING	SPEC	DC100%		03-31-89	04-21-89 *			*NOT SCHEDULED, IN-HOUSE TARGET DATE IS 4-21-89

**

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 4-1-89, MRTC Design Review Schedule

SECTION VIII

SUBCONTRACTOR/CONSULTANT STATUS

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

MARCH 24, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI-SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
1-SC-3369-1	BETTER PERSONNEL EMPLOYMENT SERVICES											
	AMEND. NO. 11	08/03/88	04/08/88	06/08/88	07/25/88	06/13/88	06/13/88	06/14/88	08/11/88	$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
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		$477,824		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	$996,419	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

**IN PROCESS

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

MARCH 24, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI-SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
7-SC-3369-1	JENKINS, GALES & MARTINEZ, 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
8-SC-3369-1	MARTIN & HUANG INTERNATIONAL											
	AMEND. NO. 11	08/03/88	04/08/88	06/08/88	07/25/88	07/13/88	07/18/88	07/25/88	08/18/88	$486,299	08/18/88	FIFTH AWP
	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
	CHANGE ORDER NO. 5	N/A	N/A	N/A	N/A	10/31/88	11/02/88	N/A	N/A	N/C	10/31/88	ADMINISTRATIVE
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 AWP
	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	OCHOA & SILLAS											
	AMEND. NO. 7	08/03/88	04/08/88	05/14/88	N/A	07/19/88	07/21/88	07/25/88	08/15/88	$79,600	08/16/88	FIFTH AWP
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 AWP
15-SC-3369-1	MUESER RUTLEDGE CONSULTING ENGINEERS (JAMES GOULD, Ph.D)											
	AMEND. NO. 6	09/23/88	N/A	06/15/88	N/A	06/21/88	06/21/88	06/23/88	08/12/88	$20,000	08/12/88	FIFTH AWP
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 AWP
19-SC-3369-1	WORK 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	$60,000	08/26/88	FIFTH AWP

**IN PROCESS

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

MARCH 24, 1989

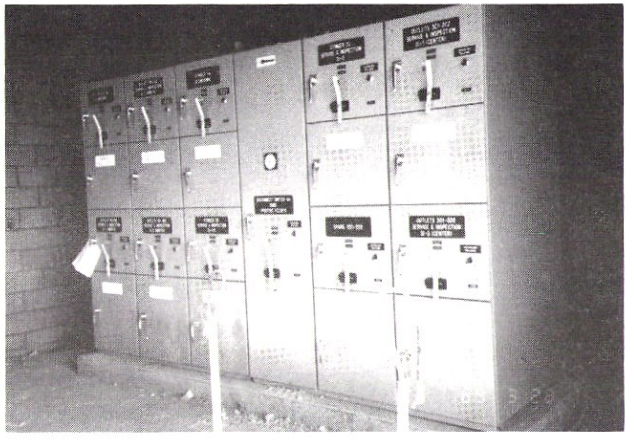
SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI-SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
21-SC-3369-1	SMITH EMERY CO.											
	AMEND NO. 3	06/13/88	N/A	N/A	07/25/88	08/23/88	08/29/88	06/16/88	08/29/88	$395,000	08/31/88	FIFTH AWP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	12/30/88		N/A	N/A	N/C	12/30/88	ADDS ITEMS
	AMEND. NO. 4	**	N/A	N/A	**			02/15/89		$595,000		INCREASES FUNDS
22-SC-3369-1	COLEMAN SECURITY SERVICES INC.											
	AMEND. NO. 3	06/13/88	N/A	N/A	N/A	08/15/88	08/17/88	06/15/88	08/15/88	$93,000	08/18/88	FIFTH AWP
29-SC-3369-1	SUBWAY TERMINAL BLDG (A145/146 SITE OFFICE LEASE)	N/A	N/A	N/A	N/A	N/A	N/A	06/01/88	06/02/88	$56,910	N/A	EXER 1YR OPT
33-SC-3369-1	F.E. ENDACOTT (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 AWP
34-SC-3369-1	BASMACIYON-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 AWP
36-SC-3369-1	STARLITE SAFETY SUPPLIES (COMPLETED)											
37-SC-3369-1	KAL KRISHNAN	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	$94,130	03/15/89	RATE ADDITIONS
38-SC-3369-1	EDWARD D. GRAF (CONSULTING AGREEMENT)	08/10/88	N/A	N/A	N/A	08/12/88	08/16/88	08/10/88	09/07/88	$50,000	09/07/88	
39-SC-3369-1	D'LEON CONSULTING ENGINEERS CO.	08/25/88	09/12/88	10/18/88	N/A	12/15/88	12/29/88	11/04/88	12/12/88	$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

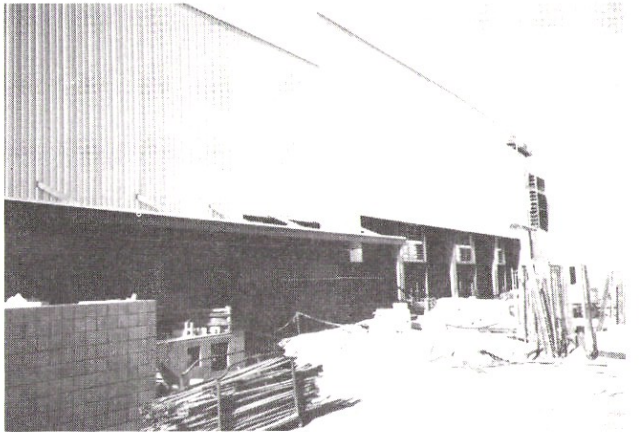
SECTION IX

CONSTRUCTION PROGRESS PHOTOS

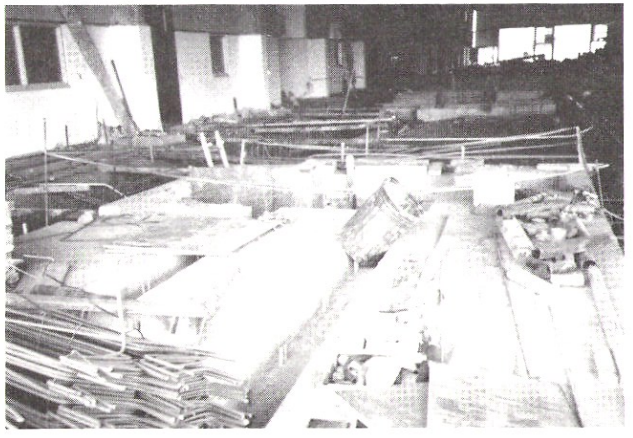
MAIN SHOP BUILDING
CONTRACT A112



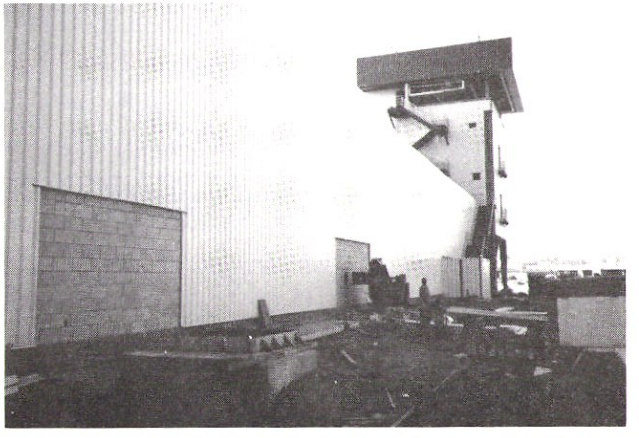
750V DC SWITCH BOARD IN TPSS



LINE 20 WITH LOADING DOCK, CANOPY, MOTORIZED DAMPERS AND CMU WALL SURROUNDING THE STANDBY GENERATOR



TRACK MR-1 SLAB LEADING TO PIT FOR FUTURE CAR HOIST PIT 124A (EAST)

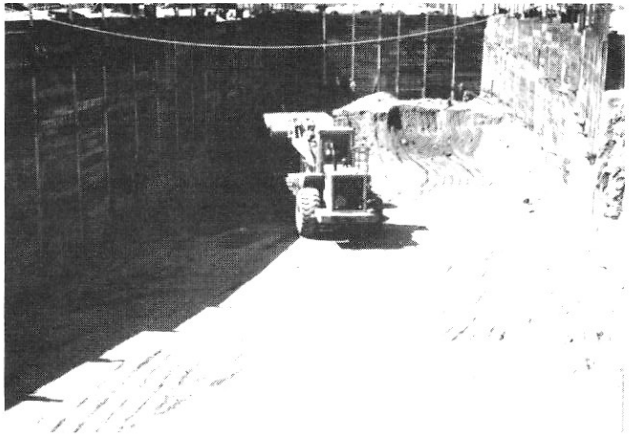


BLOWDOWN FACILITY AND CONTROL TOWER. NOTE SCRUBBER WALLS, SCRUBBER AND SCRUBBER ENCLOSURE, ALSO STAIR #10

YARD LEADS & TRANSFER ZONE
CONTRACT A130



RETAINING WALLS IN "U" WALL STRUCTURE



EXCAVATING BOX STRUCTURE - SOUTH END



CMU RETAINING WALL - EAST R/W



SLURRY WALL CONSTRUCTION - NORTH END

LOS ANGELES **METRO RAIL**

RTD

PDCD

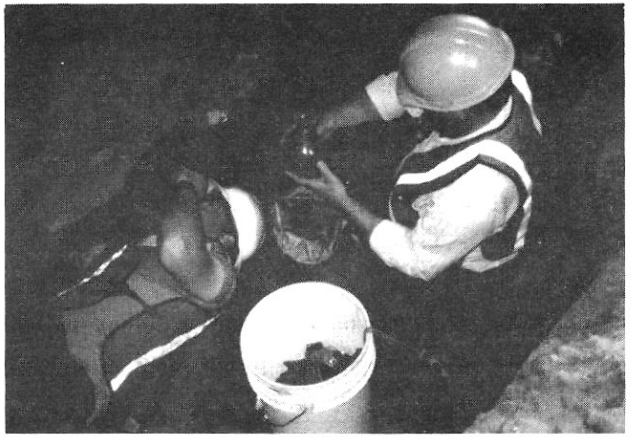
CONTRACT PERFORMANCE REPORT

PERIOD MARCH 1989

UNION STATION
CONTRACT A135



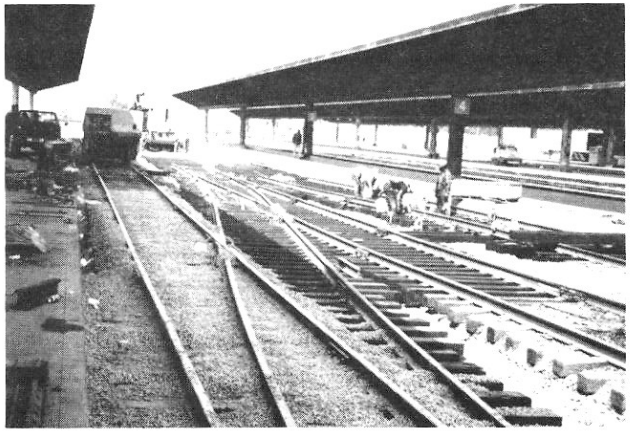
ELECTRICAL DUCTBANK INSTALLATION - MH 12EE TO SUBSTATION "B"



ARTIFACT DISCOVERY - BAGGAGE HANDLING FACILITY

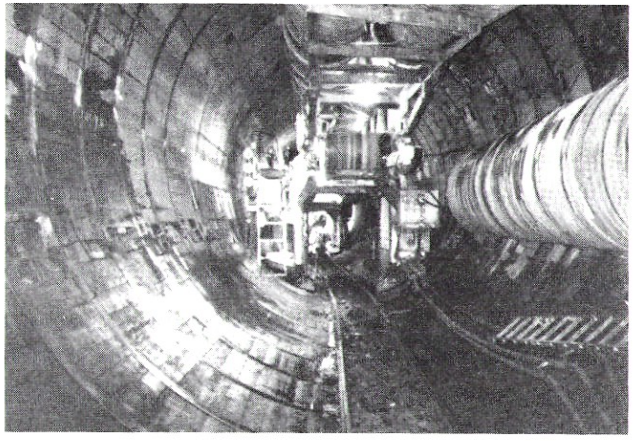


HYDRAULIC EXCAVATION FOR SLURRY WALL

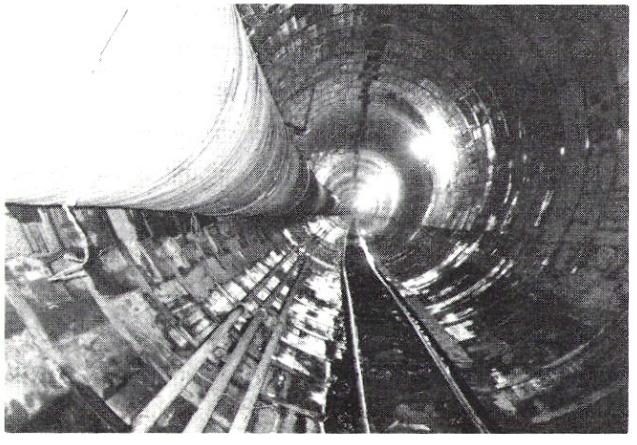


TURNOUT INSTALLATION FOR TRACKS #6-31-#7

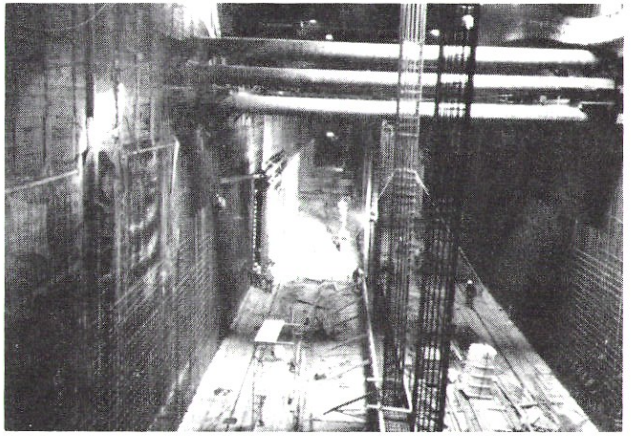
CIVIC CENTER STATION AND TUNNEL
CONTRACT A141



TAIL END OF TUNNEL MINING MACHINE LOCATED IN THE AL TUNNEL AT FACE STATION 135+27 AFTER EXCAVATING 2,300 FEET

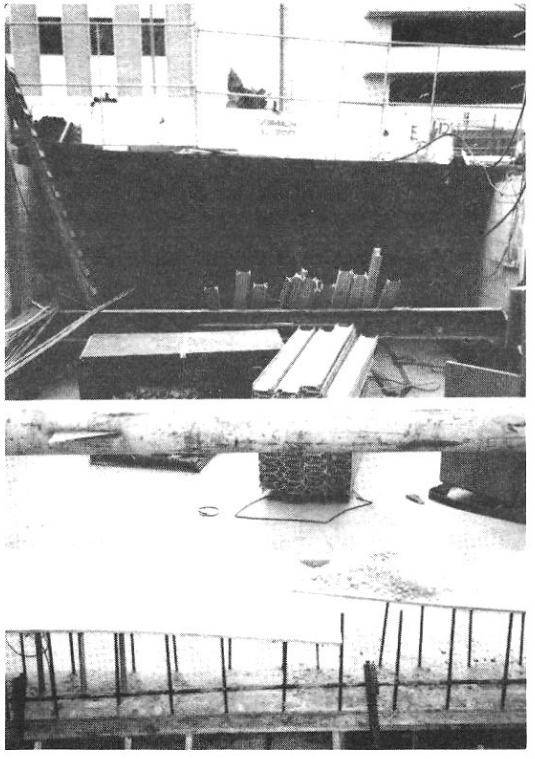


AR TUNNEL NEAR STATION 130+00, FACING NORTH EAST (TOWARD UNION STATION)

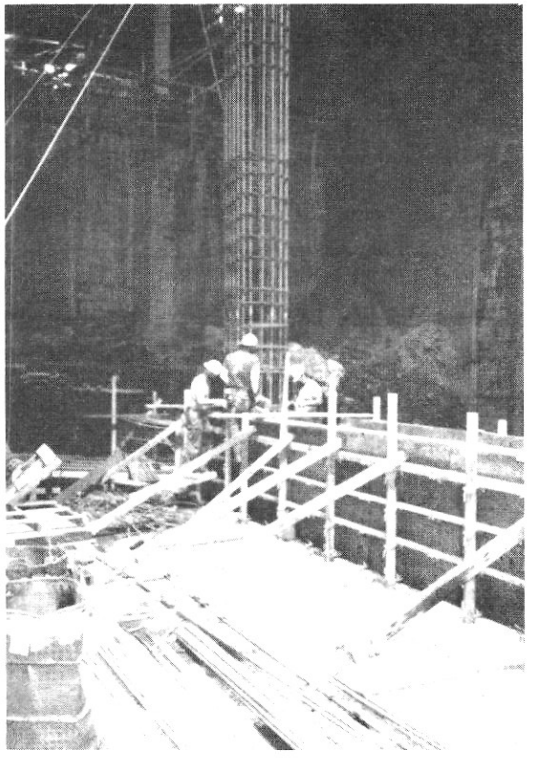


CIVIC CENTER STATION TAKEN FROM THE SOUTH BLAST RELIEF SHAFT DURING WALL REBAR AND CONCRETE INSTALLATION

CIVIC CENTER STATION AND TUNNEL
CONTRACT A141 (Contd)

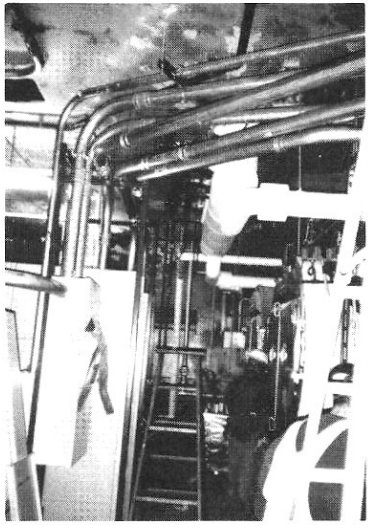


FIRST ROOF CONCRETE POUR IN SOUTH BLAST RELIEF SHAFT AT CIVIC CENTER STATION

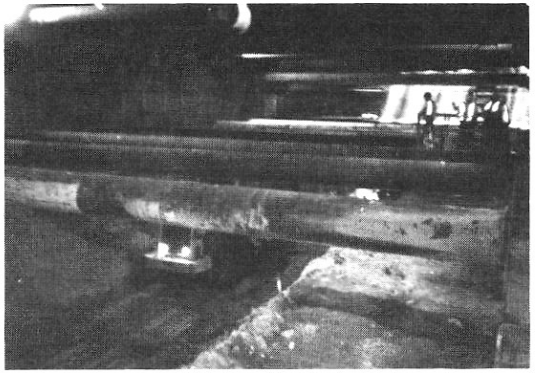


SETTING REBAR STEEL FOR COLUMN IN SOUTH END OF CIVIC CENTER STATION

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



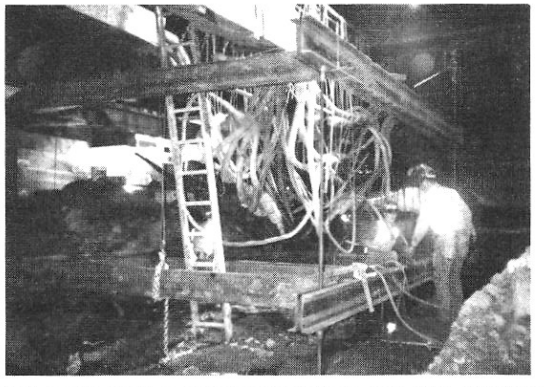
INSTALLATION OF EQUITABLE BUILDING TEMPORARY ELECTRICAL PANELS



STRUCTURAL EXCAVATION PROCEEDING TO 40 FEET BELOW HILL STREET AT THE SOUTH END OF THE STATION, LEVEL IV STRUTS AND WALERS TO FOLLOW

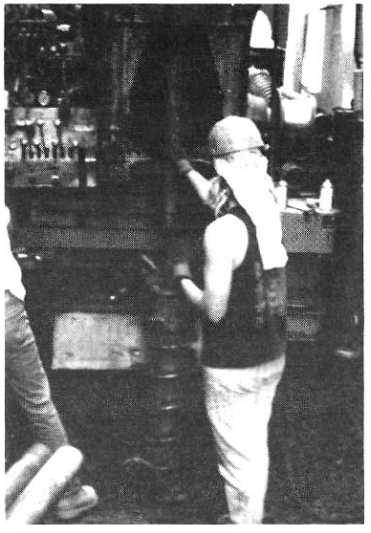


LAGGING AND WALE BRACKETS INSTALLED AROUND UNDERPINNING OF THE PERSHING SQUARE RAMP WALL FOOTING AT THE SOUTHWEST CORNER OF THE STATION

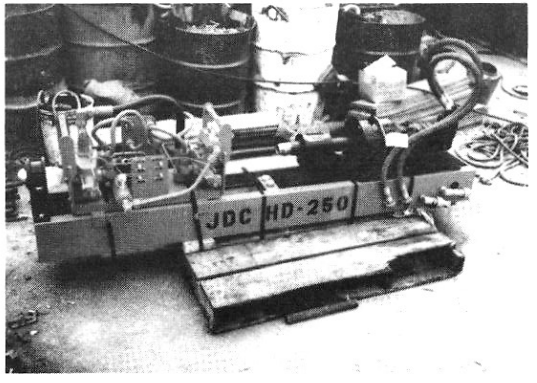


TEMPORARY CONSTRUCTION OF TELEPHONE MANHOLE NO. 793 ON HILL ST. NORTH OF 4TH ST.

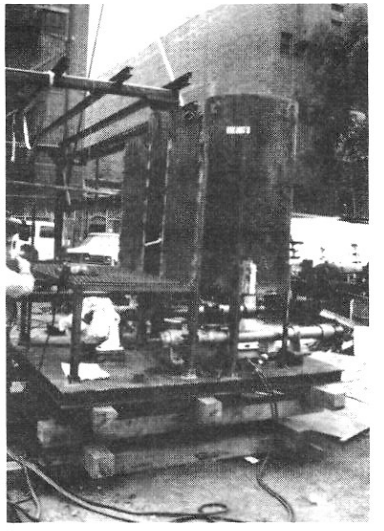
TUNNELS FROM 5TH/HILL TO 7TH/FLOWER
CONTRACT A146



SUBCONTRACTOR DRILLING
DROP HOLE FOR COMPACTION
GROUTING FROM WITHIN SHIELD



JENSEN DRILL FOR DRILLING CHEMICAL
GROUT HOLES IN TUNNEL FACE



FABRICATION OF CHEMICAL
GROUT PLANT WITH AIR MOTOR
AND CHEMICAL GROUT PUMPS

LOS ANGELES **METRO RAIL**

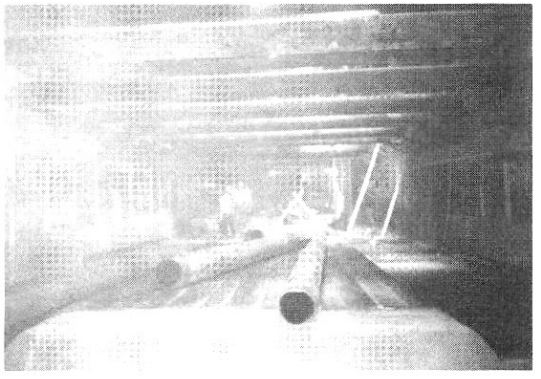
RTD

PDCD

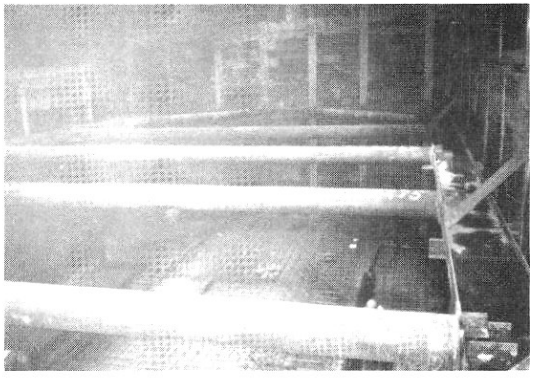
CONTRACT PERFORMANCE REPORT

PERIOD MARCH 1989

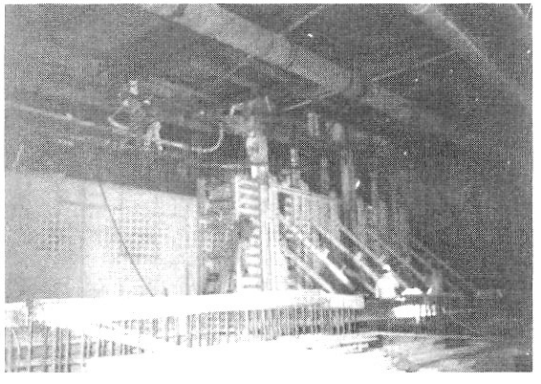
7TH/FLOWER STATION
CONTRACT A165



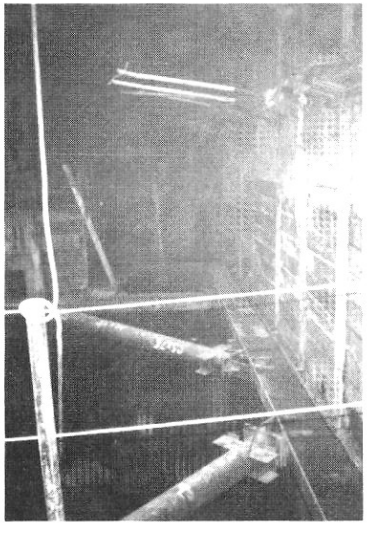
HDPE INSTALLATION –
NORTH END OF FLOWER ST.



NORTH BULKHEAD – INSTALLATION
OF REBAR FOR BASE SLAB

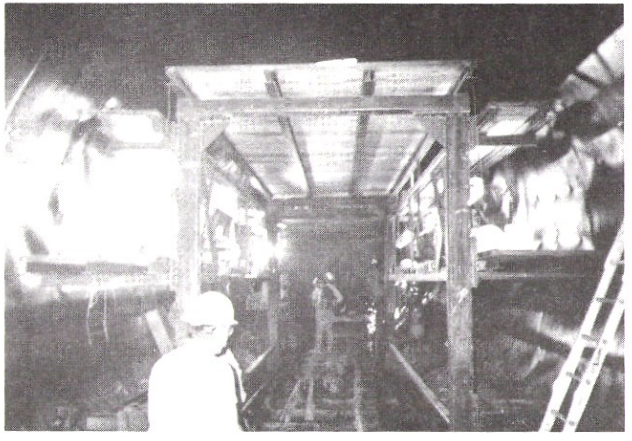


EXTERIOR WALL –
WEST SIDE OF FLOWER ST.

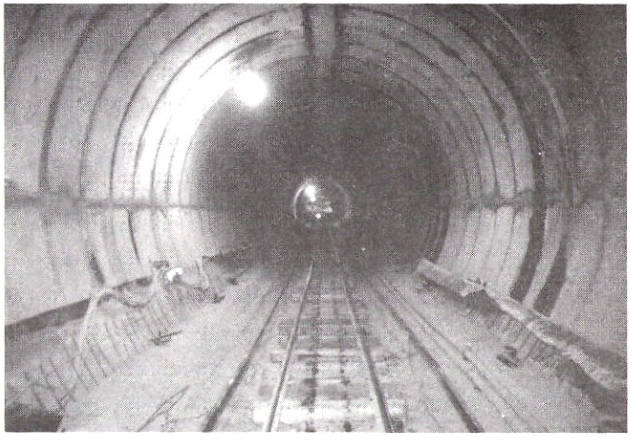


NORTH BULKHEAD WITH TIE BACKS

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



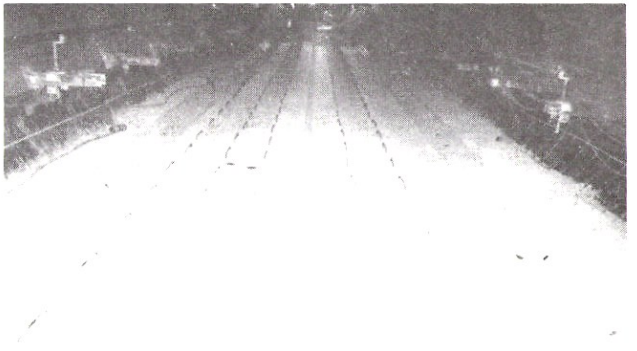
JUMBO USED FOR HDPE & REBAR INSTALLATION IN AL TUNNEL ARCH



AL TUNNEL WITH INVERT CONCRETE IN PLACE. TRACK HAS BEEN INSTALLED FOR TRANSPORT OF CONCRETE FOR ARCH

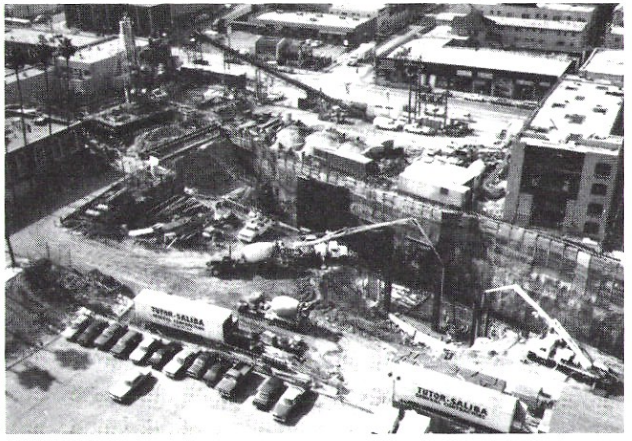


HDPE INSTALLED IN AL TUNNEL ARCH FOR 1ST CONCRETE PLACEMENT FROM STATIONS 206+05 TO 207+97

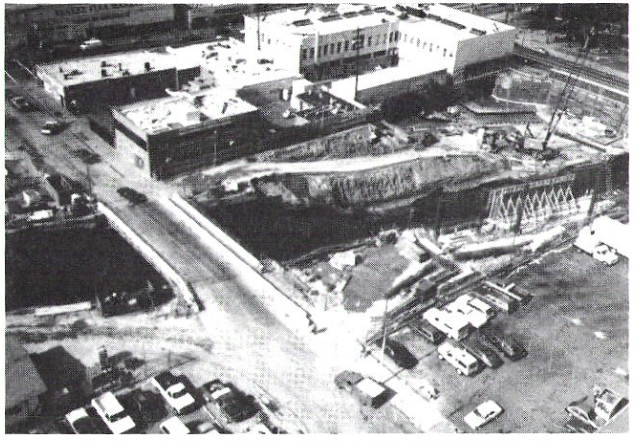


AR TUNNEL INVERT CONCRETE STATION 227+00 LOOKING WEST

WILSHIRE/ALVARADO STATION - STAGE I
CONTRACT A175



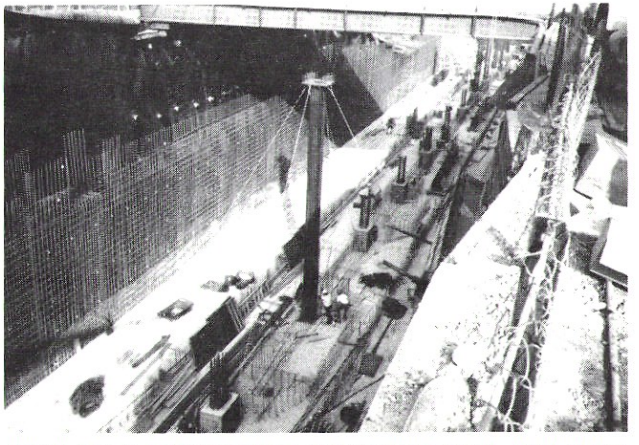
OVERHEAD VIEW OF CONSTRUCTION SITE, EAST OF WESTLAKE AVE., INCLUDES PLACEMENT OF BASE SLAB CONCRETE LEVEL 1, POUR 10



OVERHEAD VIEW OF EAST PORTION OF CONSTRUCTION SITE, WALL FORMS ERECTED FOR LEVEL 1 WALL, POUR 2



PLACEMENT OF BASE SLAB CONCRETE - LEVEL 1, POUR 10



VIEW OF MAIN STATION CONSTRUCTION, INCLUDES COMPLETED BASE SLABS AND COLUMN PEDESTALS, ALSO INCLUDES ONE FULL LENGTH STEEL COLUMN

LOS ANGELES **METRO RAIL**

PDCD

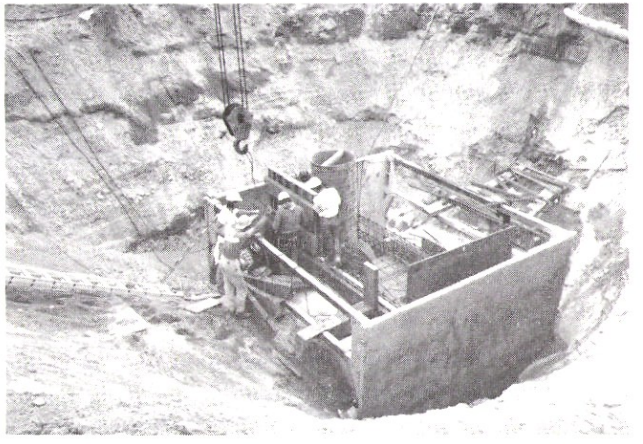
CONTRACT PERFORMANCE REPORT

PERIOD MARCH 1989

TRACKWORK INSTALLATION/YARD STORAGE AREA
CONTRACT A610/A115



PRE-PLATING TIES AT SE SIDE OF MOW BUILDING



FORM WORK FOR STORM DRAIN MANHOLE #75, SE OF MOW BUILDING



ELECTRICAL STUBUPS AND LIGHT POLE BASES BETWEEN 4TH AND 6TH ST. BRIDGES

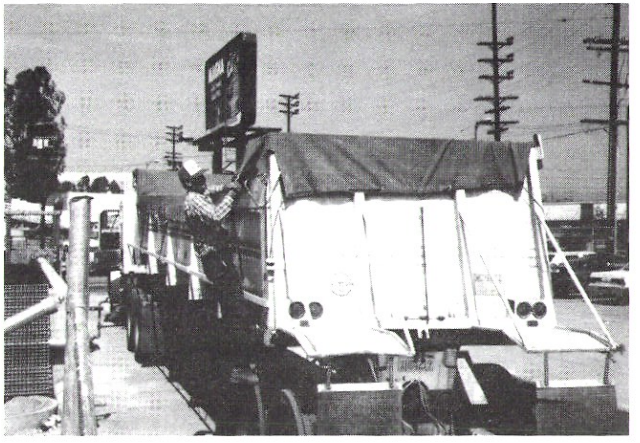


INSTALLATION OF 10" FIRE PROTECTION LINE NO. 11 BETWEEN SOUTH END OF MOW BUILDING AND EAST R/W

HANDLING OF HAZARDOUS MATERIALS CONTRACT A750



CONTAMINATED MATERIAL STORAGE YARD STOCKPILE AT A144 SITE



HAULING HAZARDOUS MATERIALS FROM STORAGE YARD



ROOF ASBESTOS REMOVAL - REA BUILDING



"GLOVEBAGGING" ASBESTOS IN REA BUILDING