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no. 55

RTD

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



REPORT NUMBER 55
JANUARY 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

JANUARY 1989

presented to

Southern California Rapid Transit District

CONTRACT NO. 3369

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Month JANUARY Year 1989

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

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LOS ANGELES **METRO RAIL**

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JANUARY 1989

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SECTION I

CONSTRUCTION MANAGER'S SUMMARY STATEMENT

I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

MAJOR CM ACTIVITIES

This Contract Performance Report (CPR) for the month of January 1989 is the seventh CPR in the Fifth Annual Work Plan (5th AWP) and covers the period December 31, 1988 through January 27, 1989. The following is a summary, by functional organization, of major CM activities during this period:

CONSTRUCTION OPERATIONS: Continued construction management (CM) services for 13 Facility Contracts and 11 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: Continued monitoring for water and wastewater quality at A171 and A175, Ballona Creek, A141, A144, A145, A146 and Los Angeles River. Completed compilation of November-December Los Angeles River monitoring records for District and LA County Replenishment District. Monitored geotechnical borings for soil and water contamination, A130 and A135. Prepared and submitted closure reports for underground tank sites at A145 and A175. Prepared and submitted December and Revised November Discharge Monitoring Reports (DMR) to the California Regional Water Quality Board (CRWQCB). Monitored removal and disposal of contaminated soil at A130 and A145.

Utilities and Traffic Activities: Continued coordination for traffic control plans and street closures with city agencies for A141, A145, A146, A165, A175 and A610/A115. Continued coordination of MOS-1 traffic plan implementation inspections with LADOT; continued processing of Master Agreement Work Invoices. Coordinated acquisition of construction power with DWP for Union Station substation. Processed a total of 29 Traffic and Utilities related submittals.

Surveying Activities: Checked invert grade and alignment of A141, AR Tunnel. Continued monitoring instrumentation and building settlement marks, A141, A145, A146, A165 and A175. Calculated and tabulated alignment of the as-built A171, AL Tunnel. Began checking invert for A171, AL Tunnel, prior to concrete pour. Checked Contractor's control and layout at A130, A141, A146, A165, A171 and A175. Continued performing as-built survey for the A146 AL Tunnel.

PROJECT CONTROLS: Processed 17 Change Requests as follows: 1 for A112; 2 for A135; 2 for A141; 3 for A144; 2 for A145; 1 for A165; 1 for A175; 2 for A610/A115; 2 for A620 and 1 for A710. Processed 22 Change Notices as follows: 3 for A130; 1 for A135; 3 for A141; 1 for A145; 1 for A146; 5 for A165; 1 for A171; 1 for A175; 3 for

A610/A115; 1 for A620; 1 for A640 and 1 for A745. Processed 49 Change Orders as follows: 3 for A112; 2 for A130; 6 for A135; 6 for A141; 4 for A144; 10 for A145; 4 for A146; 1 for A171; 8 for A610/A115; 1 for A616; 1 for A620; 1 for A710; 1 for A732 and 1 for A740. Processed 11 executed Change Orders through TRACS as follows: 1 for A130; 2 for A135; 3 for A145; 2 for A146; 2 for A171 and 1 for A610/A115 Processed 9 Potential Claims as follows: 8 for A141 and 1 for A175. Processed 14 Change - Technical Evaluations as follows: 3 for A112; 1 for A130; 1 for A135; 2 for A145; 3 for A165; 1 for A171; 2 for A610/A115 and 1 for A640. Processed 1 Claim Merit Evaluation for A610/A115. Processed 17 Monthly Payment Estimates. Completed audits on 9 Force Account Close-out Packages. Began testing PC TRACS for potential use on the Project. Reviewed Part I Schedule for A630 and revised Part II Schedules for A112 and A145. Prepared Contract Action Plan schedules for A146, A171 and A175 interface. Prepared all Level III network inputs to quarterly progress report and Revision 6D.

Cost Estimates for Changes and Proposals: A112-CR-069: Reviewed proposed settlement. A130-CR-002: Reviewed contractor proposal. A130-CR-021: Prepared estimate for change in Concrete Water Cement ratio. A130: Preliminary review of Cost Reduction Incentive Proposal to substitute compaction grouting for chemical grouting. Attended meeting with concerned parties. Began setting up Library of Cost Reference Guide Equipment including ownership and operating costs. A135-CR-004: Reviewed miscellaneous submittals and changes, Baggage Handling Facility. A135-CR-026: Reviewed Resident Engineer's estimate and contractor's proposal for removal of canopies 1, 2, 7 and 8. A135-CR-029: Prepared estimate for change in Concrete Water Cement ratio. A135: Completed estimate for revised railroad trestle at Union Station for Cost Reduction Incentive Proposal. Met with RTD for review. A141-CR-054: Began review and preparation of estimate for added or relocated curbs at Emergency Fan rooms. A141-CR-064: Reviewed estimates for replacement of 36" RCP Ventilation Duct in Hill Street. A145-CR-035: Reviewed Sanitary Sewer Revision estimate with RE in preparations for negotiations. A145-CR-117: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio. A146-CR-026: Prepared and reviewed equipment operating costs for Force Account work on compaction grouting. A146-CR-029: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio. A165-CR-010: Prepared estimate for miscellaneous changes. A165-CR-022: Began review of changes to sanitary sewer line and manhole on Flower Street. A165-CR-034: Began review of RE estimate for underpinning Home Savings/RTD entrance. A165-CR-042: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio. A171-CR-025: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio. A175-CR-011, A175-CR-025 and A175-CR-028: Reviewed contractor proposals and made comparisons to PDCD estimates in preparation for negotiations. A175-CR-032: Reviewed RE estimate for two galvanized steel angle frames. A175-CR-038: Prepared estimate for elevator hydraulic pipes. A745-CR-006: Prepared estimate for providing interim storage facilities required due to revised delivery schedule.

CONTRACTS/PROCUREMENT: Submitted amendment to District for approval to increase not-to-exceed value of subcontract with Engineering-Science, Inc. to provide funding for remainder of Fifth Annual Work Plan. Completed evaluation of quotes, conducted performance evaluation of potential suppliers of office products and prepared recommendation to be submitted to District regarding annual agreement(s).

ENGINEERING SERVICES: Completed and transmitted to RTD the report comparing tieback data from Contracts A141 and A175. Reviewed A130 compaction grouting Value Engineering Proposal and participated in discussions with the Contractor. Began slurry wall inspection in A135 to assure each panel's penetration into bedrock. Responded to 109 requests for information or documentation clarification from various Contractors. Processed 69 field inquiries with MRTC to obtain clarification of design requirements. Completed first draft of A146 Test Section II Report. Coordinated with Converse Consultants to collect test samples from face of A146 tunnel in area of apparent cohesionless sand to assess potential differing site condition. Solicited proposal from PDCD subcontractor, Dames & Moore, to sample and test soils ahead of advancing A146 tunnel shield by utilizing magnetometer probe hole. Completed tabulation of Civic Center Station load cell value history and transmitted to RTD. Rejected a proposal by the A141 instrumentation subcontractor to have RTD share the cost of retrofitting a number of borehole extensometers with electrical sensors for taking remote readings. Approved use of stainless steel drill casing in lieu of PVC casing for the A141 magnetometer probe hole. Coordinated with A141 Resident Engineer and Contractor to resolve difficulties with loss of fines while drilling magnetometer probe hole through granular, bouldery ground. Performed night shift inspection of two exploratory boreholes intended to define top of bedrock at liquor store area slated for compaction grouting in Contract A141. Performed night shift inspection of an exploratory borehole intended to check potential for running sands in vicinity of Italian Hall in Contract A141. Coordinated with A141 instrumentation subcontractor to resolve difficulties in performing specified tunnel lining deformation measurements in the confines of the shield and its trailing gear. Continued preparing as-built drawings for Contract A161.

During this period 550 Contractor submittals were processed as follows:

For Contract A112	- Approved -	15;	Approved-as-Noted -	10;	Rejected -	1.				
For Contract A130	- Approved -	26;	Approved-as-Noted -	30;			For Record Only -	2.		
For Contract A135	- Approved -	26;	Approved-as-Noted -	32;	Rejected -	6;	For Record Only -	5.		
For Contract A135BH	- Approved -	13;	Approved-as-Noted -	9;	Rejected -	3.				
For Contract A141	- Approved -	39;	Approved-as-Noted -	30;	Rejected -	5;	For Record Only -	1.		
For Contract A145	- Approved -	5;	Approved-as-Noted -	12;	Rejected -	2;	For Record Only -	2.		
For Contract A146	- Approved -	2;	Approved-as-Noted -	3;	Rejected -	4.				
For Contract A165	- Approved -	35;	Approved-as-Noted -	36;	Rejected -	7;	For Record Only -	4.		

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For Contract A171	- Approved -	2;	Approved-as-Noted -	18;	Rejected -	2;	For Record Only -	1.	
For Contract A175	- Approved -	3;	Approved-as-Noted -	8;	Rejected -	2;	For Record Only -	1.	
For Contract A610/A115	- Approved -	20;	Approved-as-Noted -	23;	Rejected -	14;	For Record Only -	2.	
For Contract A612	-		Approved-as-Noted -	3.					
For Contract A616	- Approved -	7.							
For Contract A620	- Approved -	20;	Approved-as-Noted -	18;	Rejected -	2;	For Record Only -	1.	
For Contract A630	- Approved -	2;	Approved-as-Noted -	5.					
For Contract A640	- Approved -	2;	Approved-as-Noted -	4;	Rejected -	2;	For Record Only -	4.	
For Contract A710	- Approved -	1;			Rejected -	1.			
For Contract A732	- Approved -	2;			Rejected -	2;	For Record Only -	1.	
For Contract A740	-		Approved-as-Noted -	3;	Rejected -	3.			
For Contract A745	-		Approved-as-Noted -	2;	Rejected -	3.			
For Contract A795	-				Rejected -	1.			
TOTAL		220		246		60		24	= 550

SAFETY/SECURITY: Performed daily site safety, health and security surveillances on a two shift basis and prepared written reports for the 11 active 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 RTD & DIA.

COMMUNITY RELATIONS - Coordinated community notifications and traffic control assistance for A141, A145, A146, A165 and A175. Processed 43 inquiries/complaints. Coordinated and processed traffic mitigation concerns for tenants along Hill St. affected by A145 and A146 traffic access plans, for tenants in the 7th and Flower area affected by A165 and for tenants of Westlake St. affected by A175. Provided assistance to A141, A145, A146, A165 and A175 for problems caused by street closures and lane restrictions, blocked access and emergency closure of Hill St. between Temple and First Streets. Assisted RTD/LGCA in planning and coordinating a Metro Rail Community Outreach Program for the 7th/Flower area. Provided assistance to PDCD/RTD in coordinating site visits and responding to media requests.

QUALITY ASSURANCE/QUALITY CONTROL - Continued to review welding submittals (welding procedures, welder qualifications) and inspection and testing of welding performed at sites and shops for A130, A135, A141, A145, A165 and A175. Continued to monitor test lab (Smith-Emery) activities and implemented improved cost controls on tests. Continued discussions with RTD on safety certification documentation for facility contracts. Verified A165 welding inspection reports for corrective action taken. Provided guidance to inspectors on concrete slump tests and preparing test cylinders. Continued surveillance of concrete pours at A130, A141, A165 and A175.

Continued to provide welding inspection at A145 site and at subcontractor's (Eckman) fabrication shop. Prepared procedure on preparation and control of field red-lined set of as-built drawings. Participated in review of Force Account documentation for A141, A145 and A610/A115.

EQUAL OPPORTUNITY - Prepared EO data for UMTA Quarterly Report for SCRTD. Monitored E.O. reporting requirements for 23 Contracts. Conducted project site visits/employee interviews at 10 construction sites. Processed penalty assessments for late submittal of the Monthly Employment Utilization Reports for 7 contracts.

MANPOWER PERFORMANCE

The manpower performance for January is measured against the approved planned staffing for the 5th AWP. During January, the actual staff level was 204 vs. the planned staff level of 178. Therefore, the actual staff count for January was 26 over the planned staffing level. The staff breakdown by company was 130 for the Joint Venture firms and 74 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 January period had 152 available workhours/person. The plan provided for expenditure of 27,104 hours, including "as-required" manhours which would have generated a projected equivalent head count of 178.32 personnel at 152 hours/person. Actual hours expended were 28,914 which translates into a 190.22 equivalent head count at 152 hours/person including temporary personnel, resulting in the equivalent of 11.9 personnel over the plan.

Cumulative total hours incurred through January were 203,718 against a plan of 198,168 resulting in an over plan variance of 5,550 hours.

EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in January 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 17.8%, 0.8% 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 24% and 4% respectively.

SCHEDULE PERFORMANCE

- **Contractor Submittals** - During this period, 285 submittals were received per contract number as follows: A112 (16), A130 (52), A135 (29), A135BH (26), A141 (42), A145 (11), A146 (2), A165 (35), A171 (9), A175 (16), A610/A115 (9), A612 (2), A615 (4), A616 (5), A620 (8), A630 (6), A640 (6), A732 (1), A740 (4); A745 (1) and A795 (1); of the 285 received this period plus the 402 carryover from December, 550 packages were processed and returned to the contractors; the balance of 137 remain in review.
- **Constructibility Reviews** - Completed review of A135/85% - Union Station modifications, west entrance.
- **Training Programs** - During January, the following training program was underway: SAFETY TRAINING FOR UNDERGROUND CONSTRUCTION - Training in safety conduct during underground construction covering use of self-rescuers, fire extinguishers and other safety equipment.

COST PERFORMANCE - Fifth Annual Work Plan

- Total incurred costs of $1,301,286 for CM Direct Services (excluding General Condition Items) for the period were over the plan of $1,277,553 by $23,733. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by $25,701 and labor expenditures (total PDCD and subcontractors) being over the plan by $49,434.
- The cumulative costs for Total CM Services (Including General Condition Items) incurred through January were $9,652,868 against a plan of $9,732,579 resulting in an under plan of $79,711.
- The January CPR indicates an estimate at completion for the 5th AWP (including General Condition Items) of $17,624,191 versus a plan of $17,625,378 for an underexpenditure of $1,187.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of $110,962 for the period were over the plan of $44,192 for the period by $66,770. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of $892,496, which is over the plan of $664,300 by $228,196.

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.
- PDCD's Joint Venture Executive Board Meeting No. 14 was held on January 20, 1989.

Melvin L. Polacek
Construction Manager

SECTION II

MANPOWER PERFORMANCE

II. MANPOWER PERFORMANCE

This CPR for the month of January 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 January.

During January, personnel assignments/deletions included the addition of 2 Field Office Engineers, 3 Inspectors, 1 Planner/Scheduler, 1 Data Technician, and 3 Secretarial/Clerical; and the deletion of 1 Planner/Scheduler and 2 Inspectors.

For the January period, under the approved 5th AWP, the total planned staffing level (including regular and as-required classifications) is 178. The actual staff (including regular, as-required and temporary classifications) was 204 resulting in 26 over the plan. The current actual staff by company for the January period is as follows:

Company	Staff Level	Company	Staff Level
The Ralph M. Parsons Company	56	Jacobs Associates	9
Dillingham Construction, Inc.	51	Jenkins, Gales & Martinez, Inc.	8
De Leuw, Cather & Company	23	Kal Krishnan Consulting	2
Better Personnel Employment Services	14	Martin & Huang International	5
Construction Control Services Corporation	20	North Pacific Construction Management	5
Dames & Moore	1	Ochoa & Sillas	-
Engineering-Science, Inc.	5	Randolph & Tate Associates	-
		WCI	5

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 January.

The January period had 152 available workhours/person. The plan provided for an expenditure of 27,104 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 178.32 personnel @ 152 hrs/person. Actual hours expended were 28,914 which translates into an equivalent head count of 190.22 @ 152 hrs/person including temporary personnel, resulting in the equivalent of 11.9 personnel over the plan.

The hours expended for the period were 28,914 versus a plan of 27,104. The 1,810 manhours variance for the period is calculated as follows:

11.9 equivalent staff over plan @ 152 hours/period in plan =	1,810 hours
JANUARY MANHOUR VARIANCE TO PLAN	1,810 hours

Cumulative total hours incurred through January were 203,718 against a plan of 198,168 resulting in an over plan variance of 5,550 hours. (Page 22)

TABLE II-1 CONSTRUCTION MANAGEMENT STAFF COUNT - JANUARY
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	0	2	2
Secretarial/Word Processing/Clerical/ Drafting/Courier	15	18	3
Labor Relations	0	0	0
Legal Counsel	1	0	(1)
Subtotal	22	26	4
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
Subtotal	10	10	0
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	1	0
Lead Planner/Scheduler	1	1	0
Planner/Schedulers	5	6	1
Lead Estimator	1	1	0
Estimators	3	1	(2)
Sr. Data Technician	1	1	0
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	2	1
Computer Support	0	0	0
Subtotal	29	31	2
Manager, Contracts/Procurement	1	1	0
Sr. Contract Administrators	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	1	1
Lead Electrical Engineer	1	1	0
Electrical Engineer	1	2	1
Lead Engineer, Geotech. Section	1	1	0
Engineers, Geotech. Section	6	5	(1)
Lead Mechanical Engineer	1	1	0
Mechanical Engineer	1	2	1
Lead Structural Engineer	1	1	0
Sr. Struct./Struct. Engineers	3	5	2
Lead Systems Engineer	1	1	0
Systems Engineer	2	1	(1)
Office Engineer	0	1	1
Subtotal	23	25	2
DCM, Operations	1	1	0
Manager, General Services	1	0	(1)
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	5	2
Engineer	0	0	0
Engineering Technician/Coordinator	1	1	0
Resident Engineers	9	9	0
Chief Inspectors	8	9	1
Sr. Inspectors/Inspectors	28	39	11
Office Engineers	11	12	1
Field Secretaries/Clerical	12	16	4
Manager, Systemwide Construction	1	1	0
Office Engineer	1	1	0
Resident Engineers	4	4	0
Secretary	2	2	0
Inspector	1	0	(1)
Subtotal	91	109	18
Totals	178	204	26

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.

LOS ANGELES **METRO RAIL**

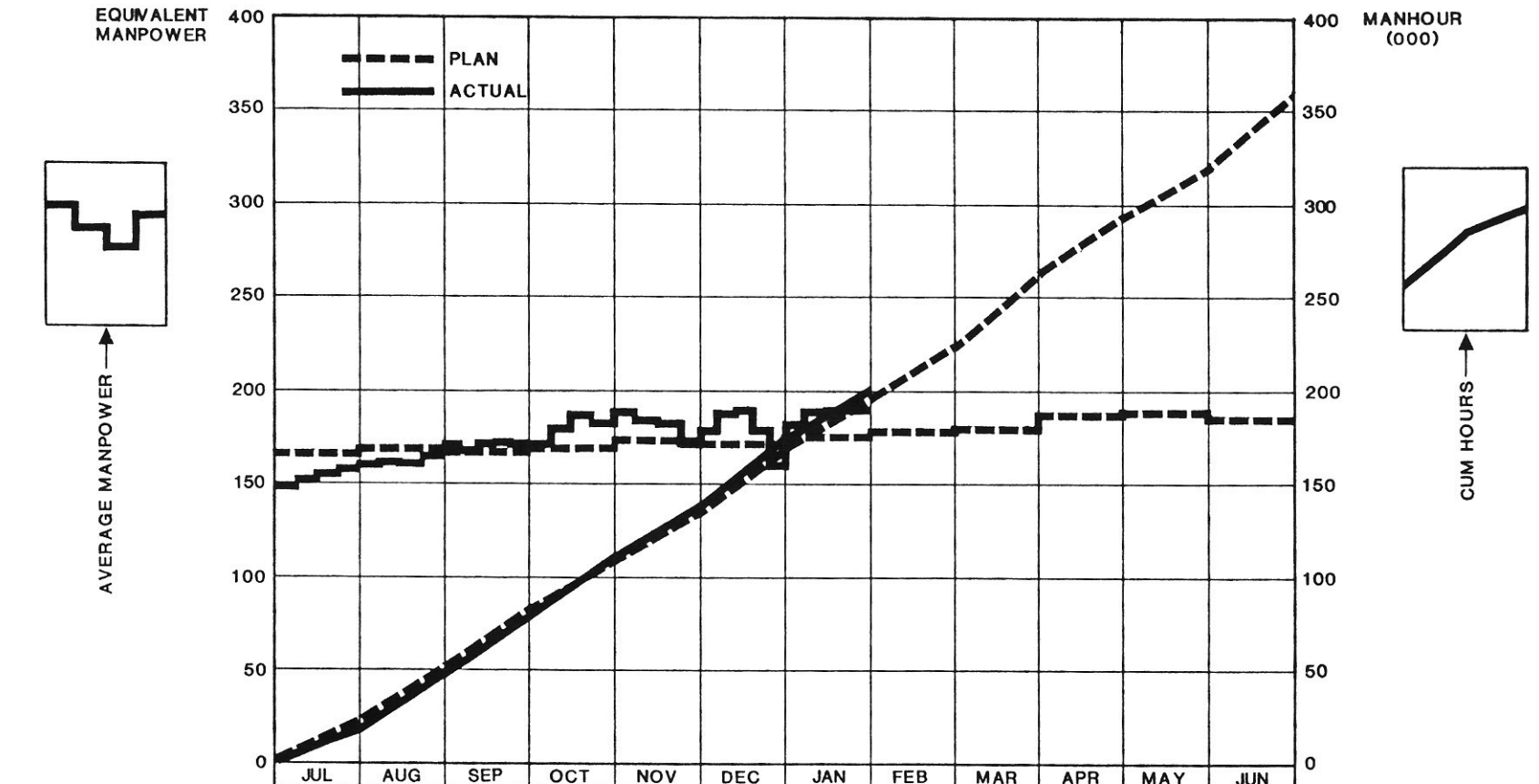
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CONTRACT PERFORMANCE REPORT

FIFTH ANNUAL WORK PLAN

PERIOD JANUARY 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					
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					
EQ MANPOWER	PLAN	169	171	168	171	175	173	178	182	183	189	190	187
	ACTUAL	155	165	176	182	187	182	190					
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						
		cumulative	3,052	6,089	9,714	12,777	15,396	19,021	22,295						
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						
		cumulative	9,697	20,329	33,767	45,853	57,292	72,436	84,790						
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						
		cumulative	895	1,957	3,335	4,587	5,633	7,008	8,055						
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						
		cumulative	2,083	4,491	8,133	10,777	13,331	16,382	18,554						
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						
		cumulative	2,882	6,085	9,583	13,326	16,601	20,954	24,719						
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						
		cumulative	445	916	1,425	1,832	2,220	2,667	3,052						
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						
		cumulative	2,440	5,488	9,735	13,019	16,082	19,844	23,173						
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						
		cumulative	293	583	944	1,254	1,503	1,795	2,043						

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
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						
		cumulative	272	592	944	1,288	1,704	2,216	2,640						
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						
		cumulative	240	503	944	1,350	1,702	2,183	2,589						
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						
		cumulative	752	1,550	2,877	3,782	4,524	5,545	6,410						
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						
		cumulative	152	304	456	648	920	1,280	1,541						
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						
		cumulative	0	0	9	18	18	22	22						
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						
		cumulative	0	0	0	0	0	5	5						
Subtotal (HOURS)	Plan	current	25,320	26,800	31,744	26,720	24,480	32,400	26,464	28,560	35,800	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	258,288	287,648	317,328	352,480	
	Actual	current	23,203	25,684	32,979	28,645	26,415	34,432	28,530						199,888
		cumulative	23,203	48,887	81,866	110,511	136,926	171,358	199,888						

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						
		cumulative	0	582	590	655	737	763	831						
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						
		cumulative	0	0	0	0	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						
		cumulative	341	152	659	902	1,413	1,831	2,031						
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						
		cumulative	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						
		cumulative	0	83	163	67	128	201	253						
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						
		cumulative	0	0	0	0	0	0	0						
M Engineering Services/ Systems Integration	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	72	152	148	272	(160)	4	0						
		cumulative	72	224	372	644	484	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						
		cumulative	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						
		cumulative	0	94	143	145	159	161	225						
Subtotal	Plan	current	400	560	560	640	720	720	640	560	880	960	880	960	8,480
		cumulative	400	960	1,520	2,160	2,880	3,600	4,240	4,800	5,680	6,640	7,520	8,480	
	Actual	current	413	722	792	486	510	523	384						
		cumulative	413	1,135	1,927	2,413	2,923	3,446	3,830						
TOTAL DIRECT LABOR HOURS	Plan	current	25,720	27,360	32,304	27,360	25,200	33,120	27,104	29,120	36,680	30,320	30,560	36,112	360,960
		cumulative	25,720	53,080	85,384	112,744	137,944	171,064	198,168	227,288	263,968	294,288	324,848	360,960	
	Actual	current	23,616	26,406	33,771	29,131	26,925	34,955	28,914						203,718
		cumulative	23,616	50,022	83,793	112,924	139,849	174,804	203,718						

‡ Negative due to correction to prior period accruals.

SECTION III

EQUAL OPPORTUNITY PERFORMANCE

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III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

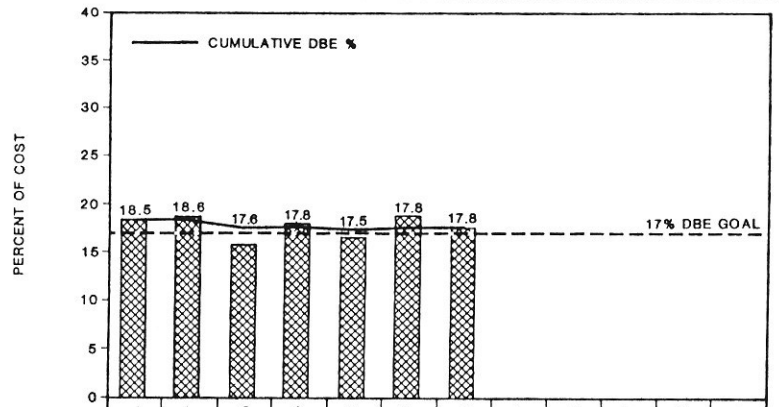
The monthly DBE participation for the Fifth Annual Work Plan for January, measured on the basis of accrued total cost was 17.7%, 0.7% above the 17% goal. The cumulative percentage for the Fifth Annual Work Plan was 17.8%, 0.8% above the 17% goal (Figure 1).

WBE Participation

The monthly WBE participation for the Fifth Annual Work Plan for January, measured on the basis of accrued total cost was 4.3%, 1.3% above the 3% goal. The cumulative percentage for the Fifth Annual Work Plan was 4.6%, 1.6% above the 3% goal (Figure 2).

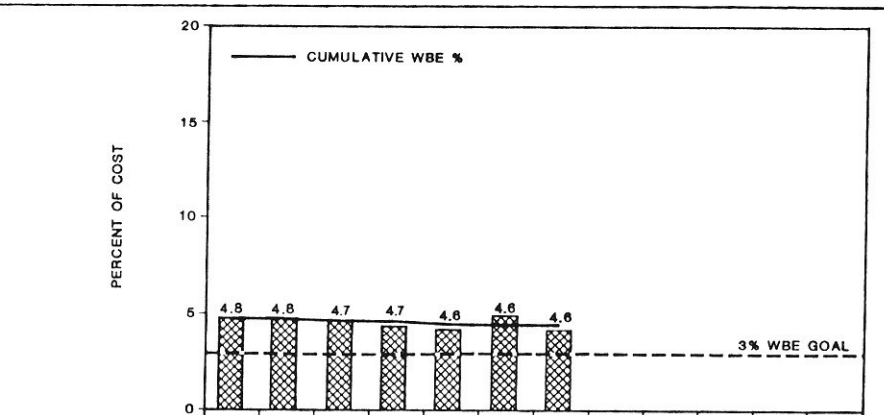
Affirmative Action Analysis

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 24% and 4% respectively.



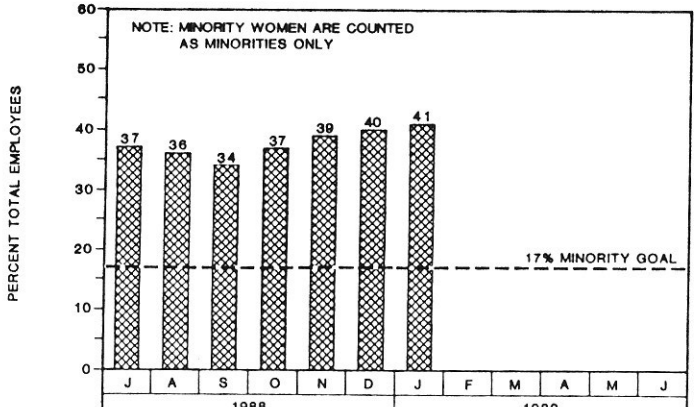
($000)	J	A	S	O	N	D	J	F	M	A	M	J
TOTAL MONTHLY COST	1,137	1,248	1,537	1,386	1,279	1,656	1,412					
CUMULATIVE COST	1,137	2,383	3,920	5,306	6,585	8,241	9,653					
MONTHLY DBE COST	210	234	244	254	212	312	250					
CUMULATIVE DBE COST	210	444	688	942	1,154	1,466	1,716					
MONTHLY DBE %	18.5	18.8	15.9	18.3	16.6	18.8	17.7					
CUMULATIVE DBE %	18.5	18.6	17.6	17.8	17.5	17.8	17.8					

FIGURE 1 - DBE ANALYSIS



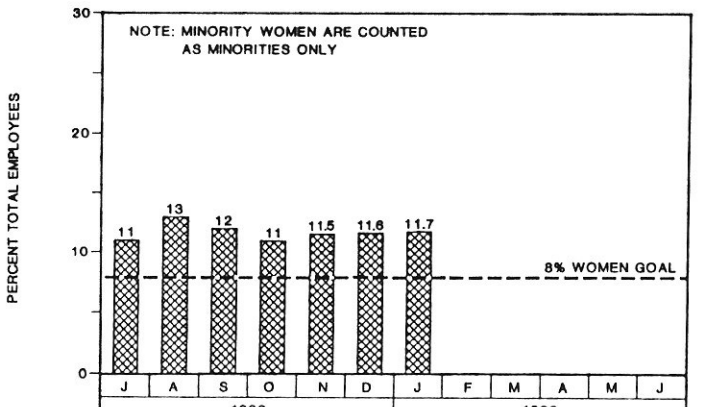
($000)	J	A	S	O	N	D	J	F	M	A	M	J
TOTAL MONTHLY COST	1,137	1,248	1,537	1,386	1,279	1,656	1,412					
CUMULATIVE COST	1,137	2,383	3,920	5,306	6,585	8,241	9,653					
MONTHLY WBE COST	54	60	72	61	55	81	61					
CUMULATIVE WBE COST	54	114	186	247	302	383	444					
MONTHLY WBE %	4.8	4.8	4.7	4.4	4.3	4.9	4.3					
CUMULATIVE WBE %	4.8	4.8	4.7	4.7	4.6	4.6	4.6					

FIGURE 2 - WBE ANALYSIS



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

FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS



	J	A	S	O	N	D	J	F	M	A	M	J
TOTAL EMPLOYEES	156	165	186	191	191	198	204					
WOMEN EMPLOYEES	17	21	22	21	22	23	24					
WOMEN % OF TOTAL	11%	13%	12%	11%	11.5%	11.6%	11.7%					
WOMEN GOAL VARIANCE	+3%	+5%	+4%	+3%	+3.5%	+3.6%	+3.7%					

FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

SECTION IV

SCHEDULE PERFORMANCE

IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 285 submittals were received from the Construction Contractors and 402 were carried over from December. 550 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 (137) are still under review.

Contracts	Carryover From Dec.	No. of Submittals Received in Jan.	Submittals Processed Within 30 Days	Submittals Processed In Over 30 Days	Carryover to February
A112	22	16	23	3	12
A130	39	52	53	5	33
A135	52	29	66	3	12
A135BH	4	26	25	0	5
A141	41	42	72	3	8
A145/A145A	15	11	17	4	5
A146	7	2	9	0	0
A165	71	35	71	11	24
A171	15	9	21	2	1
A175	6	16	12	2	8
A610/A115	56	9	49	10	6
A612	3	2	3	0	2
A615	1	4	0	0	5
A616	4	5	7	0	2
A620	36	8	38	3	3
A630	4	6	7	0	3
A640	7	6	11	1	1
A710	3	0	2	0	1
A732	5	1	5	0	1
A740	6	4	6	0	4
A745	5	1	5	0	1
A795	0	1	1	0	0
Total	402	285	503	47	137

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

- o Constructibility Reviews - Completed constructibility review of A135 Union Station, West Entrance - 85%.

Training Programs

The following training program for PDCD, RTD, MRTC and Subcontractor personnel was underway during the January period:

SAFETY TRAINING FOR UNDERGROUND CONSTRUCTION - Training in safety conduct during underground construction covering use of self-rescuers; fire extinguishers and other safety equipment. Five separate sessions were held with representatives from RTD, MRTC, L.A. City Agencies and the Mayor's office.

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD
12-31-88 TO 1-27-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-135	UNION STATION MODIFICATIONS WEST ENTRANCE	DWGS	IP85%		12-21-88	01-06-89	01-06-89		

**

One record listed. One value listed.

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

NOTES : 1) Based on 1-10-89, MRTC Design Review Schedule

SECTION V

COST PERFORMANCE

V. COST PERFORMANCE

FIFTH ANNUAL WORK PLAN

Total incurred costs of $1,301,286 (Page 25) for CM Direct Services (without General Condition Items) for the period were over the plan of $1,277,553 by $23,733. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by $25,701 and Labor expenditures (total PDCD and subcontractors) being over the plan by $49,434.

The cumulative costs for Total CM Services (including General Condition Items) incurred through January were $9,652,868 against a plan of $9,732,579 resulting in an under plan expenditure of $79,711 (Page 25).

The January CPR forecasts (Page 25) an estimate at completion of $17,624,191 versus a plan of $17,625,378 for an underexpenditure of $1,187. Extracting the General Condition Items and reporting them separately, the January CPR forecasts a CM Direct Services estimate at completion of $16,731,695 versus a plan of $16,961,078 for an under plan expenditure of $229,383.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of $110,962 for the period were over the plan of $44,192 for the period by $66,770. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of $892,496 versus a plan of $664,300, for a projected overplan expenditure of $228,196. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was $41.17/hr. compared to a plan rate of $42.10/hr., resulted in a difference of $0.93 per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE	IMPACT ON JANUARY COSTS
11.9 equivalent staff over plan @ 152 hours at $42.10/hour =	$ 76,200

RATE VARIANCE
190.22 actual staff equivalent @ 152 hours
@ $0.93/hour = (26,800)

JANUARY COST VARIANCE TO PLAN $ 49,400

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of $25,701 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VARIANCE	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE
(1)Field Office Expenses	59,264	56,460	- 2,804	415,605	366,475	- 49,130
(2)Office Equipment	14,552	- 2,058	-16,610	101,864	80,412	- 21,452
(3)Travel & Relocation	26,350	23,648	- 2,702	184,450	54,023	-130,427
(4)Vehicles & Maintenance	4,927	3,253	- 1,674	65,346	31,937	- 33,409
(5)Reproduction	5,678	5,741	63	43,039	50,458	7,419
(6)Telephone & Telex	7,022	9,080	2,058	53,230	41,139	- 12,091
(7)Computer Operation Support	3,242	3,583	341	22,694	10,163	- 12,531
(8)Gross Receipt Tax	7,066	7,000	- 66	52,033	52,000	- 33
(9)Field Equipment	8,456	4,149	- 4,307	59,192	34,504	- 24,688
S/T ODC's	136,557	110,856	-25,701	997,453	721,111	-276,342

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 - small overexpenditure due to regular cost of reproduction.
(6) Telephone and Telex - overexpenditure due to receipt of delayed December 1988 Invoice added to January 1989 Invoice.
(7) Computer Operation Support - small overexpenditure due to higher than planned DMCS.
(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 - JANUARY 1989
FIFTH ANNUAL WORK PLAN
CONSTRUCTION

($000)

	PLANNED	ACTUAL	VARIANCE	%
PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH DECEMBER	$ 4,650	$ 4,590	$ (60)	-1.29%
CURRENT MONTH	740	757	17	2.30%
CUMULATIVE THROUGH JANUARY	$ 5,390	$ 5,347	$ (43)	-0.80%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH DECEMBER	$ 861	$ 610	$ (251)	-29.15%
CURRENT MONTH	136	111	(25)	-18.38%
CUMULATIVE THROUGH JANUARY	$ 997	$ 721	$ (276)	-27.68%
SUBCONTRACTORS				
CUMULATIVE THROUGH DECEMBER	$ 2,601	$ 2,570	$ (31)	-1.19%
CURRENT MONTH	401	434	33	8.23%
CUMULATIVE THROUGH JANUARY	$ 3,002	$ 3,004	$ 2	0.07%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH DECEMBER	$ 8,112	$ 7,770	$ (342)	-4.22%
CURRENT MONTH	1,277	1,302	25	1.96%
CUMULATIVE THROUGH JANUARY	$ 9,389	$ 9,072	$ (317)	-3.38%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH DECEMBER	$ 299	$ 471	$ 172	57.53%
CURRENT MONTH	44	110	66	150.00%
CUMULATIVE THROUGH JANUARY	$ 343	581	$ 238	69.39%
TOTAL CM SERVICES				
CUMULATIVE THROUGH DECEMBER	$ 8,411	$ 8,241	$ (170)	-2.02%
CURRENT MONTH	1,321	1,412	91	6.89%
CUMULATIVE THROUGH JANUARY	$ 9,732	$ 9,653	$ (79)*	-0.81%
HOURS				
CUMULATIVE THROUGH DECEMBER	171,064 hrs	174,804 hrs	3,740 hrs	2.19%
CURRENT MONTH	27,104	28,914	1,810	6.68%
CUMULATIVE THROUGH JANUARY	198,168 hrs	203,718 hrs	5,550 hrs	2.80%

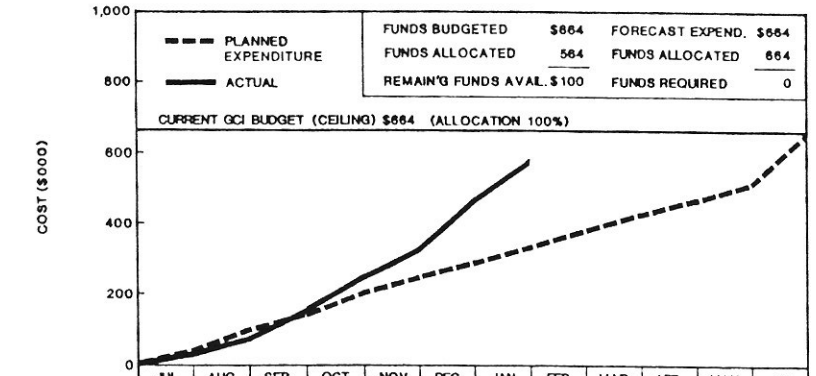
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CONTRACT PERFORMANCE REPORT

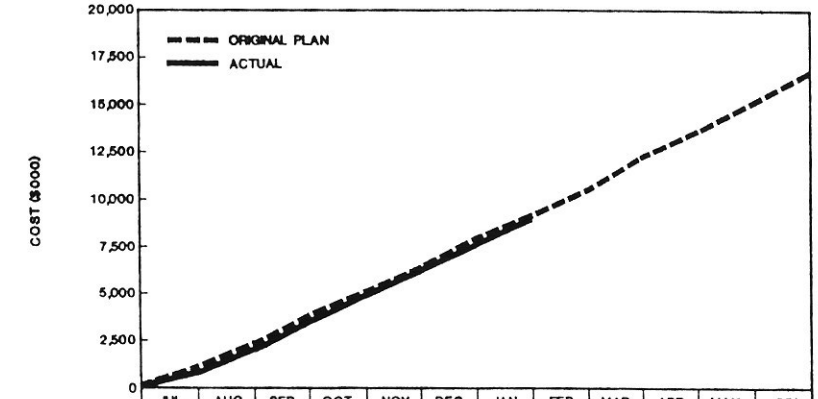
FIFTH ANNUAL WORK PLAN

PERIOD JANUARY 1989



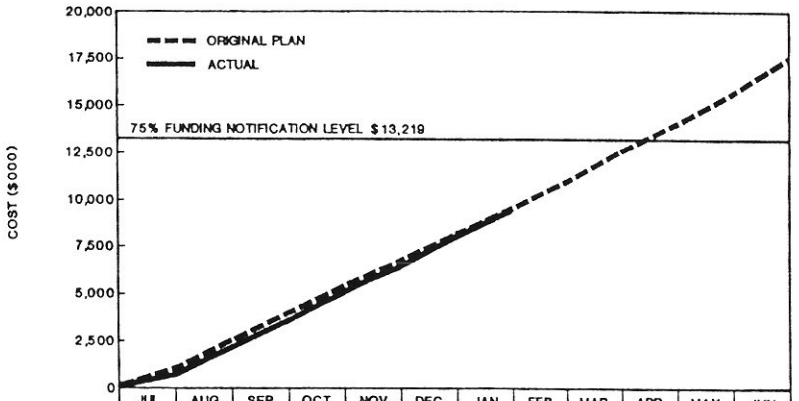
		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1988						1989					
PLANNED EXPEND.		44	105	150	211	255	299	343	388	432	476	520	664
ACTUAL		39	80	166	260	333	470	581					
VARIANCE		(5)	(25)	16	49	78	171	238					
FORECAST	ETC	620	583	498	403	331	268	311					
	EAC	659	663	664	663	664	738	892					

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	6,664	8,111	9,389	10,767	12,446	13,869	15,302	16,961
ACTUAL		1,098	2,303	3,754	5,046	6,252	7,770	9,072					
VARIANCE		(146)	(253)	(306)	(313)	(312)	(341)	(317)					
FORECAST	ETC	15,867	14,657	13,207	11,916	10,709	9,117	7,660					
	EAC	16,965	16,962	16,961	16,962	16,961	16,887	16,732					

CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		1988						1989					
PLAN		1,288	2,662	4,210	5,570	6,819	8,411	9,732	11,155	12,878	14,345	15,822	17,626
ACTUAL		1,137	2,383	3,920	5,306	6,585	8,241	9,853					
VARIANCE		(151)	(279)	(290)	(264)	(234)	(170)	(79)					
FORECAST	ETC	16,487	15,242	13,705	12,319	11,040	9,385	7,971					
	EAC	17,624	17,625	17,625	17,625	17,625	17,625	17,624					

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

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING JAN 27, 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	5,676	-2,074	54,250	41,732	-12,518	38,750	93,000	80,482	-12,518
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	0	0	0	10,730	10,730	10,000	0	20,730	20,730
F WTF EXPENSES	0	5,475	5,475	0	26,344	26,344	0	0	26,344	26,344
G SIGNS AND BARRICADES	0	0	0	0	36,372	36,372	0	0	36,372	36,372
X CONSTRUCTION PHOTO	3,525	9,811	6,286	24,675	25,943	1,268	17,625	42,300	43,568	1,268
Y TESTING PROGRAM	32,917	90,000	57,083	230,419	440,000	209,581	245,000	395,000	685,000	290,000
S/T ALLOCATED	44,192	110,962	66,770	343,344	581,121	237,777	311,375	564,300	892,496	328,196
Z UNALLOCATED	0	0	0	0	0	0	0	100,000	0	-100,000
S/T GEN. COND. ITEMS	44,192	110,962	66,770	343,344	581,121	237,777	311,375	664,300	892,496	228,196

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING JAN 27, 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	78,786	83,653	4,867	597,116	555,677	-41,439	464,549	1,049,100	1,020,226	-28,874
C FAC. CONSTRUCTION	385,674	453,706	68,032	2,781,970	3,051,919	269,949	2,615,687	5,131,561	5,667,606	536,045
E SYSTEMWIDE CONST	49,185	44,619	-4,566	336,684	325,926	-10,758	313,560	605,480	639,486	34,006
F GENERAL SERVICES	81,642	83,405	1,763	624,293	727,240	102,947	517,945	1,084,962	1,245,185	160,223
K PROJECT CONTROLS	187,572	153,898	-33,674	1,422,714	1,044,790	-377,924	1,048,906	2,581,921	2,093,696	-488,225
L PROCUREMENT	20,265	17,452	-2,813	153,585	136,971	-16,614	118,095	269,840	255,066	-14,774
M ENG. SVCS./SYST. INTEGR.	163,055	183,789	20,734	1,151,131	1,309,681	158,550	929,579	2,108,035	2,239,260	131,225
N COMMUNITY RELATIONS	11,572	9,937	-1,635	87,702	77,960	-9,742	67,728	154,087	145,688	-8,399
P SAFETY	21,034	18,898	-2,136	159,414	120,626	-38,788	119,638	280,081	240,264	-39,817
Q QUALITY ASSURANCE	15,506	19,659	4,153	130,508	129,952	-556	132,213	232,452	262,165	29,713
R PROJECT ADMIN.	32,037	31,114	-923	242,807	231,555	-11,252	186,303	436,598	417,858	-18,740
S EQUAL OPPORTUNITY	14,063	10,870	-3,193	106,583	65,732	-40,851	73,885	187,260	139,617	-47,643
T LABOR RELATIONS	0	0	0	0	1,443	1,443	10,702	21,405	12,145	-9,260
U LEGAL	0	0	0	20,000	3,887	-16,113	20,000	80,000	23,887	-56,113
S/T LABOR-BRDN & OH	1,060,391	1,111,000	50,609	7,814,507	7,783,359	-31,148	6,618,790	14,222,782	14,402,149	179,367
1 FIELD OFFICE EXPENSES	59,264	56,460	-2,804	415,605	366,475	-49,130	293,525	718,100	660,000	-58,100
2 OFFICE EQUIPMENT	14,552	-2,058	-16,610	101,864	80,412	-21,452	82,036	181,900	162,448	-19,452
3 TRAVEL & RELOCATION	26,350	23,648	-2,702	184,450	54,023	-130,427	56,650	325,000	110,673	-214,327
4 VEHICLES & MAINT.	4,927	3,253	-1,674	65,346	31,937	-33,409	13,853	93,600	45,790	-47,810
5 REPRODUCTION	5,678	5,741	63	43,039	50,458	7,419	37,061	75,600	87,519	11,919
7 TELEPHONE & TELEX	7,022	9,080	2,058	53,230	41,139	-12,091	25,000	93,500	66,139	-27,361
8 COMPUTER OPERATION SUPPT.	3,242	3,583	341	22,694	10,163	-12,531	9,837	38,900	20,000	-18,900
9 GROSS RECEIPT TAX	7,066	7,000	-66	52,033	52,000	-33	42,197	94,230	94,197	-33
A FIELD EQUIPMENT	8,456	4,149	-4,307	59,192	34,504	-24,688	46,508	105,700	81,012	-24,688
S/T ODC'S	136,557	110,856	-25,701	997,453	721,111	-276,342	606,667	1,726,530	1,327,778	-398,752
W PDCD FEE	50,000	50,000	0	350,000	350,000	0	245,000	595,000	595,000	0
X S/C FEE	30,605	29,430	-1,175	227,275	217,277	-9,998	189,491	416,766	406,768	-9,998
S/T FEES	80,605	79,430	-1,175	577,275	567,277	-9,998	434,491	1,011,766	1,001,768	-9,998
S/T CM DIRECT SVCS	1,277,553	1,301,286	23,733	9,389,235	9,071,747	-317,488	7,659,948	16,961,078	16,731,695	-229,383
S/T GEN. COND. ITEMS	44,192	110,962	66,770	343,344	581,121	237,777	311,375	664,300	892,496	228,196
TOTAL CM SERVICES	1,321,745	1,412,248	90,503	9,732,579	9,652,868	-79,711	7,971,323	17,625,378	17,624,191	-1,187

PERCENT OF BUDGET EXPENDED = 55%

NEGATIVE VARIANCE INDICATES UNDERRUN

SECTION VI

ADDITIONAL ACTIVITIES PERFORMED IN JANUARY

VI. ADDITIONAL ACTIVITIES PERFORMED IN JANUARY

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

A. ADMINISTRATION AND ACCOUNTING

(1) Continued to assist the Resident Engineers in the supply of administrative material and the assignment/orientation of new field personnel at the field offices.
(2) Continued processing of personnel (acquisition and termination).
(3) Coordinated and held PDCD's JVEB meeting No. 14 on January 20, 1989.

B. Quality Assurance

(1) Continued to review welding submittals (welding procedures, welder qualifications) and inspection and testing of welding performed at sites and shops for A130, A135, A141, A145, A165 and A175.
(2) Continued to monitor test lab (Smith-Emery) activities and implemented improved cost controls on tests.
(3) Continued discussions with RTD on safety certification documentation for facility contracts.
(4) Verified A165 welding inspection reports for corrective action taken.
(5) Provided guidance to inspectors on concrete slump tests and preparing test cylinders.
(6) Continued surveillance of concrete pours at A130, A141, A165 and A175.
(7) Continued to provide welding inspection at A145 site and at subcontractor's (Eckman) fabrication shop.
(8) Prepared procedure on preparation and control of field red-lined set of as-built drawings.
(9) Participated in review of Force Account documentation for A141, A145 and A610/A115.

C. Equal Opportunity Administration

(1) Prepared E.O. data for UMTA Quarterly Report for SCRTD.
(2) Monitored EO reporting requirements for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A640, A710, A732, A740 and A745.
(3) Conducted project site visits/employee interviews at the following sites: A112, A130, A135, A141, A145, A146, A165, A171, A175 and A610/A115.
(4) Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for contracts A112, A130, A135, A141, A146, A165 and A175.

D. Contracts and Procurement

(1) Submitted amendment to District for approval to increase not-to-exceed value of subcontract with Engineering-Science, Inc. to provide funding for remainder of Fifth Annual Work Plan.
(2) Completed evaluation of quotes, conducted performance evaluation of potential suppliers of office products and prepared recommendation to be submitted to District regarding annual agreement(s).

E. Community Relations

(1) Coordinated community notifications and traffic control assistance for A141, A145, A146, A165, and A175.
(2) Coordinated and processed traffic mitigation concerns for tenants along Hill St. affected by A145 and A146 traffic access plans, for tenants in the 7th and Flower area affected by A165 for tenants of Westlake St. affected by A175.
(3) Provided assistance to A141, A145, A146, A165 and A175 for problems caused by street closures and lane restrictions, blocked access and emergency closure of Hill St. between Temple and First Streets.
(4) Assisted RTD/LGCA in planning and coordinating a Metro Rail community outreach program for the 7th/Flower area.
(5) Provided assistance to PDCD/RTD in coordinating site visits and responding to 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 RTD & DIA.

G. Construction Operations

(1) Continued construction management (CM) services for Contracts A112, A121 (contract close out), A130, A135, A141, A143, A144, A145/A145A, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745 and A795; monitoring of utilities relocations, and submittal reviews.

(2) Continued coordination of traffic control plans and street closures with city agencies for A141, A145, A146, A165, A175 and A610/A115.
(3) Continued coordination of MOS-1 traffic plan implementation inspections with LADOT and continued processing of Master Agreement Work Invoices.
(4) Coordinated acquisition of construction power with DWP for Union Station substation.
(5) Processed a total of 29 Traffic and Utilities related submittals.
(6) Continued monitoring for water and wastewater quality at A171 and A175, Ballona Creek, A141, A144, A145, 146 and the Los Angeles River.
(7) Completed compilation of November-December Los Angeles River monitoring records for District and LA County Replenishment District.
(8) Monitored geotechnical borings for soil and water contamination, A130 and A135.
(9) Prepared and submitted closure reports for underground tank sites at A145 and A175.
(10) Prepared and submitted December and Revised November Discharge Monitoring Reports (DMR) to the California Regional Water Quality Board (CRWQCB).
(11) Monitored removal and disposal of contaminated soil at A130 and A145.
(12) Checked invert grade and alignment of A141, AR Tunnel.
(13) Continued monitoring instrumentation and building settlement marks, A141, A145, A146, A165 and A175.
(14) Calculated and tabulated alignment of the as-built A171, AL Tunnel.
(15) Began checking invert for A171, AL tunnel, prior to concrete pour.
(16) Checked Contractor's control and layout at A130, A141, A146, A165, A171 and A175.
(17) Continued performing as-built survey for the A146 AL Tunnel.

H. Engineering Services

(1) Completed and transmitted to RTD the report comparing tieback data from Contracts A141 and A175.
(2) Reviewed A130 compaction grouting Value Engineering Proposal and participated in discussions with the Contractor.
(3) Began slurry wall inspection in A135 to assure each panel's penetration into bedrock.
(4) Responded to 109 requests for information or documentation clarification from various Contractors.
(5) Processed 69 field inquiries with MRTC to obtain clarification of design requirements.
(6) Completed first draft of A146 Test Section II Report.
(7) Coordinated with Converse Consultants to collect test samples from face of A146 tunnel in area of apparent cohesionless sand to assess potential differing site condition.
(8) Solicited proposal from PDCD subcontractor, Dames & Moore, to sample and test soils ahead of advancing A146 tunnel shield by utilizing magnetometer probe hole.

(9) Continued preparing as-built drawings for Contract A161.
(10) Completed tabulation of Civic Center Station load cell value history and transmitted to RTD.
(11) Rejected a proposal by the A141 instrumentation subcontractor to have RTD share the cost of retrofitting a number of borehole extensometers with electrical sensors for taking remote readings.
(12) Approved use of stainless steel drill casing in lieu of PVC casing for the A141 magnetometer probe hole.
(13) Coordinated with A141 Resident Engineer and Contractor to resolve difficulties with loss of fines while drilling magnetometer probe hole through granular, bouldery ground.
(14) Performed night shift inspection of two exploratory boreholes intended to define top of bedrock at liquor store area slated for compaction grouting in Contract A141.
(15) Performed night shift inspection of an exploratory borehole intended to check potential for running sands in vicinity of Italian Hall in Contract A141.
(16) Coordinated with A141 instrumentation subcontractor to resolve difficulties in performing specified tunnel lining deformation measurements in the confines of the shield and its trailing gear.
(17) For Contract A112 - Approved 15 Contractor submittals for lighting fixture "N2", interior panels, interchangeability of Killark receptacles with Crouse-Hinds receptacles, treated lumber, mill certificates for metal decking, and second floor plumbing.
Approved-as-Noted 10 Contractor submittals for power switchgear, truck hoist and components, bus ducts supports and layout, DC outlets, welding procedures, certificates for rail items, and paint.
Rejected 1 Contractor submittal for telescoping doors.
(18) For Contract A130 - Approved 26 Contractor submittals for Monthly CPM Update Report details; rebar details; mastic and protective coatings for pipe; "U" section retaining walls; product data - Plasti-Key compression tests; mill tests reports for rebar at west retaining wall base slab; Certificate of Compliance - electrical manholes, and data sheets for concrete pumps.
Approved-as-Noted 30 Contractor submittals for slurry wall with alternative support method; slurry wall layout; soldier beam and lagging layout design; rebar details; concrete mix designs - 2500 psi lean and fill concrete; "U" section retaining wall lift drawings and working drawings index; base slab at "U" section rebar; form drawings for cable trench, pipe support, service walkway; form drawings for cable basin and trench; instrumentation and location drawings; ground stabilization and compaction grouting description and procedures, data sheets, report forms, resumes, elevation drawings; Owl Concrete mix design; duct bank drawings; fire protection, wet stand pipe and miscellaneous; storm drainage system; and tieback details and schedule drawings.
Reviewed for Record Only 2 Contractor submittals for observation well installation boring field log and installation record sheets.
(19) For Contract A135 - Approved 26 Contractor submittals for ballast certification; Geofon boring and monitoring wells; pipe jacking under RR tracks literature on jacking and boring machine; concrete mix

design; backer rod catalog and sample; electrical ductbank rebar detailing sheet; Certificates of Compliance for EMH 10EE, 12EE, 35KVI and 35IV2; Gundle HDPE responses; storm drain line 30" RCP; ground wire splicing and terminations; aluminum trench angle and cover assemblies; and electrical conduit survey - LAUPT Baggage Handling Facility.

Approved-as-Noted 32 Contractor submittals for boring underneath railroad tracks; passenger bridge drawings; slurry wall layout; concrete mix designs - 4000 psi; electric ductbank details; sanitary sewer and drain fittings; procedure for construction of Track 5; manufacturer's specifications for 600V and 35KVI wire and cable; steel access door; design calculations and sketch for tieback anchor sleeves; and bituminous coating for metal imbeds.

Rejected 6 Contractor submittals for slurry wall mix supplement cylinder breaks; vehicular bridge design and calculations; dewatering data; certified test reports for rebar; grout data sheet and test report; and design drawings and calculations for tieback and anchorage.

Reviewed for Record Only 5 Contractor submittals for office furniture listing, concrete mix designs for 4000 psi, and observation well readings.

(20) For Contract A135BH (Baggage Handling) - Approved 13 Contractor submittals for concrete lift drawings, rebar details, HVA adhesive anchor system, rebar mill test reports, mechanical systems, roof details, color chart for lockers, welder certificates and procedures, form designs for decks, conduit fittings, ramp handrails, and pavement seals.

Approved-as-Noted 9 submittals for metal fabrications, door and finish hardware schedules, rebar details for conveyer openings, concrete pads and pedestals, steel erection drawings, elevators, welder certificates, conveyer layout, and lockers layout.

Rejected 3 submittals for rebar mill test reports, telephone boxes, and motor starters.

(21) For Contract A141 - Approved 39 Contractor submittals for rebar reinforcement, pedestrian traffic plan for chemical grouting operation, HDPE elevator casing, Safety & Security Manual Section 6, water pollution control plan, cast-in-place concrete, NE entrance modifications and rebar, various lift drawings, electrical water stop detail, column forms for north and south blast relief shaft and ancillary level columns, and form tiebacks.

Approved-as-Noted 30 Contractor submittals for Geotechnical instrumentation/data sheets and drawings; various cast-in-place concrete lift drawings; layout for conduits and firehose cabinet; traffic control plan for chemical grout and compaction; bar extensometer proposals; pipe sleeve product data; reinforcing bars; and "Cam-Lock" forming system.

Rejected 5 Contractor submittals for mined crosspassage excavation support system; material certificates for 2-1/2", 1-1/2" and 3/4" pipe fittings; Mechanical Div. sample forms - procedure qualification records; and proposed remote electrical sensors for borehole extensometers.

Reviewed for Record Only 1 Contractor submittal for Interim Part II Schedule.

MTA LIBRARY

(22) For Contract A145 - Approved 5 Contractor submittals for excavation support, weld procedures for new pipe strut material, and pipe materials for sanitary sewer line C.
Approved-as-Noted 12 Contractor submittals for Access-Delivery Zone - Walkway Plan, calculations for silted piles, calculations and lagging schedule for long spans between piles, lower wale MK #14 and 14A to clear utilities, south bulkhead Level 1 waler relocation, supports for temporary storm drainages and sanitary sewer, hangers for temporary 36" storm drain pipe, and pile encroachment repair plan drawing.
Rejected 2 Contractor submittals for calculations for soldier pile #275, and October 1988 Monthly Progress Report.
Reviewed for Record Only 2 Contractor submittals for inclinometer readings and observation well measurements, and timber lagging design - above station roof.

(23) For Contract A146 - Approved 2 Contractor submittal for tunnel lighting fixtures and certificates.
Approved-as-Noted 3 Contractor submittals for Worksite Traffic Control Plans at the L.A. Jewelry Center and California Jewelry Mart.
Rejected 4 Contractor submittals for Revised Part II Schedule - July 1988 Update, revised Part II Schedule - November 1988 Update, WSTCP as-built locations - Bank of America, and Monthly Schedule 12/88 Revised Update Part II.

(24) For Contract A165 - Approved 35 Contractor submittals for Home Savings shoring plan, pedestrian traffic diversion, welding, storm drainage manhole, manhole frames and covers, sewer product data, steel mill test reports, base slab lift drawing, and rebar shop drawings.
Approved-as-Noted 36 Contractor submittals for utility support, traffic detour, support pile bracing details, embeds and non embeds, grounding wire connection details, welding, plumbing and sewer specifications, pipe sleeves, lift drawings LRT base slab, concrete lift drawings, rebar shop drawings cable vaults #3 and #4, rebar shop drawings, and exterior wall lift drawings.
Rejected 7 Contractor submittals for traffic detours, Dai-Ichi Kangyo and Mitsubishi Banks underpinning, ventilation, and rebar details.
Reviewed for Record Only 4 Contractor submittals for Monthly Employment Utilization Report, labor cost, weekly and daily reports, and rebar details.

(25) For Contract A171 - Approved 2 Contractor submittals for electrical materials.
Approved-as-Noted 18 Contractor submittals for junction boxes for Type X tunnel lights, catalog data electrical material, pressure resistant doors and frames, motor control exhaust fans, AR Tunnel line and grade corrections and as-built segments 1-50, AR Tunnel segmented lining as-builts, inserts for walkway covers, and inserts for tunnel arch concrete liner.
Rejected 2 Contractor submittals for December Update Schedule, and junction boxes Type X tunnel light system.
Reviewed for Record Only 1 Contractor submittal for temporary power installation in tunnels.

(26) For Contract A175 - Approved 3 Contractor submittals for detail of temporary pipe support for embedded drainage piping and concrete formwork.
Approved-as-Noted 8 Contractor submittals for camlock manufacturer's data, calculations and Certificates of Compliance, concrete formwork, column forms, HDPE penetrations, Type L pipe sleeves, and rebar details.
Rejected 2 Contractor submittals for Monthly Progress Reports.
Reviewed for Record Only 1 Contractor submittal for Contracts A171 and A175 shaft interface details.

(27) For Contract A610 - Approved 20 Contractor submittals for concrete design mixes; rail anchor; No. 8 lateral turnout, ballasted, non-electrified; No. 8 lateral turnout, ballasted, electrified; rail layout for No. 8 double crossover; stock rails for 16'-8" switch No. 8 turnout; closure and buffer rails for No. 8 turnout; heat treatment procedure for rail ends; hinged wheel stops; typical flanged type bonded insulated rail joint; typical flange type, bonded non-insulated rail joint; negative return joint bond; tie plugs; portaplant layout and description of rail welding plant; formwork for light pole foundations; and substitution of official WCL&B Certificates of Inspection.
Approved-as-Noted 23 Contractor submittals for No. 8 lateral frog ballasted; No. 8 single crossover 16' track centers, Type 1, ballasted; No. 8 lateral switch, ballasted (non-electrified); standard joints; No. 8 double crossover 18' TC ballasted; plates for 16'-6" switch for No. 8 non-electrified turnout; switch plates 16'6" for No. 8 electrified turnout; stock ail for 16'-6" switch No. 8 turnout; closure and buffer rails for No. 8 turnout; crossover connector rails for No. 8 single and double crossovers; plates for 16'-6" switch detail; 16'-6" switch point and details for derail; railbound manganese steel end crossing frog; procedure for adjusting rail and anchoring; catalog cuts lighting fixtures; and misc. electrical.
Rejected 14 Contractor submittals for crushed aggregate base; 12'-0" "T" rail design guard rail; No. 8 lateral switch ballasted; 14 deg. - 18'-20" crossing, ballasted; traffic control at 3/Santa Fe; 16'-6" switch point and details; 16'-6" switch point and details for No. 8 turnout (non-electrified); 16'-6" switch point derail; railbound manganese steel crossing frog; heavy car cleaning platform; bonded joint qualification test certification; and certificate of hardness, procedure for explosive depth hardening.
Reviewed for Record Only 2 Contractor submittals for emergency response telephone list; West Coast Lumber Grading Rules, 1984 - American Wood Preservers Association Standards, 1987.

(28) For Contract A616 - Approved 7 Contractor submittals for Monthly Progress Reports, vertical load test report, and production fastener test results.

(29) For Contract A620 - Approved 20 Contractor submittals for SCADA interface charts, conduit and fittings, control panel layout and mechanical drawings, track circuit qualification test procedure, EMC test plans - partial, interface connectors for carborne ATP equipment, and control panel layout.

Approved-as-Noted 18 Contractor submittals for barchart schedules and narrative revisions, systems assurance program plan, maintainability analysis, yard switch machine data and layout, block design, and Union Station circuit drawings.
Rejected 2 Contractor submittals for barchart schedule and Safety Program meeting minutes.
Reviewed for Record Only 1 Contractor submittal for sign drawings.

(30) For Contract A612 - Approved-as-Noted 3 Contractor submittals for test program plan and product data for contact rail and appurtenances.

(31) For Contract A630 - Approved 2 Contractor submittals for initial activities plan and equipment installation data.
Approved-as-Noted 5 Contractor submittals for equipment installation data.

(32) For Contract A640 - Approved 2 Contractor submittals for "On Site" Safety & Security Plan, and radio equipment list.
Approved-as-Noted 4 Contractor submittals for CRT display, installation plans for antennas, SCADA subsystem floor plans, and radio manufacturer's list.
Rejected 2 Contractor submittals for radio installations, radio equipment list and radio manufacture's lists, and SCADA subsystem block diagram.
Reviewed for Record Only 4 Contractor submittals for bar chart schedule, Project Management Procedure Manual, and mobile radio installation plans.

(33) For Contract A710 - Approved 1 Contractor submittal for bar chart schedule and narrative.
Rejected 1 Contractor submittal for excalator clearance requirements.

(34) For Contract A732 - Approved 2 Contractor submittals for Simmons Machine Tool Corp. wheel truing shop drawings.
Rejected 2 Contractor submittals for Simmons Machine tool-bar chart, and Progress Status Report - month of September, 1988.
Reviewed for Record Only 1 Contractor submittal for Monthly Progress Status Report.

(35) For Contract A740 - Approved-as-Noted 3 Contractor submittals for fan assembly dimensions, fan drawings, and fan motor test procedures.
Rejected 3 Contractor submittals for September Progress Report and Schedule, and October, 1988 Monthly Progress Report and updated bar chart schedule and November Progress Report and Schedule.

(36) For Contract A745 - Approved-as-Noted 2 Contractor submittals for roll filters.
Rejected 3 Contractor submittals for September Progress Report and Schedule, October Monthly Progress Report and updated bar chart schedule, and November Progress Report and Schedule.

(37) For Contract A795 - Rejected 1 Contractor submittal for bar chart schedule.

I. Project Controls

(1) Processed Change Requests: A112-CR-096, A135-CR-033, A135-CR-034, A141-CR-074, A141-CR-093, A144-CR-005, A144-CR-013, A144-CR-116, A145/145A-CR-099, A145/145A-CR-099A, A165-CR-036, A175-CR-018, A610/A115-CR-017, A610/A115-CR-017B, A620-CR-021, A620-CR-023 and A710-CR-001.

(2) Processed Change Notices: A130-CN-001, A130-CN-005, A130-CN-007, A135-CN-007, A141-CN-043, A141-CN-047, A141-CN-051, A145/145A-CN-032, A146-CN-010, A165-CN-013, A165-CN-019, A165-CN-020, A165-CN-022, A165-CN-025, A171-CN-012, A175-CN-008, A610/A115-CN-021, A610/A115-CN-025, A610/A115-CN-027, A620-CN-020, A640-CN-005 and A745-CN-003.

(3) Processed Change Orders: A112-CO-037A, A112-CO-041, A112-CO-042, A130-CO-001F, A130-CO-003, A135-CO-001F, A135-CO-002K, A135-CO-002L, A135-CO-002M, A135-CO-002N, A135-CO-006A, A141-CO-030A, A141-CO-032, A141-CO-033, A141-CO-034, A141-CO-035, A141-CO-036, A144-CO-003, A144-CO-007, A144-CO-008, A144-CO-009, A145/145A-CO-028, A145/145A-CO-043, A145/145A-CO-051, A145/145A-CO-053, A145/145A-CO-068, A145/145A-CO-069, A145/145A-CO-070, A145/145A-CO-072, A145/145A-CO-073, A145/145A-CO-074, A146-CO-016, A146-CO-016A, A146-CO-018, A146-CO-019, A171-CO-020, A610/A115-CO-016, A610/A115-CO-018, A610/A115-CO-025, A610/A115-CO-026, A610/A115-CO-027, A610/A115-CO-028, A610/A115-CO-029, A610/A115-CO-030, A616-CO-008, A620-CO-002, A710-CO-001, A732-CO-001 and A740-CO-003.

(4) Processed through TRACS, executed Change Orders: A130-CO-005, A135-CO-002I, A135-CO-002J, A145-CO-056A, A145-CO-067, A145-CO-071, A146-CO-016, A146-CO-019, A171-CO-010, A171-CO-012 and A610-CO-024.

(5) Processed Potential Claims: A141-PC-024, A141-PC-030, A141-PC-031, A141-PC-032, A141-PC-033, A141-PC-034, A141-PC-042, A141-PC-128 and A175-PC-002.

(6) Processed Change - Technical Evaluations: A112-CTE-090, A112-CTE-094, A112-CTE-095, A130-CTE-022, A135-CTE-032, A145/145A-CTE-109, A145/145A-CTE-114, A165-CTE-033, A165-CTE-038, A165-CTE-041, A171-CTE-024, A610/A115-CTE-017B, A610/A115-CTE-046 and A640-CTE-010.

(7) Processed Claim Merit Evaluation: A610/A115-CME-026.

(8) Processed Monthly Payment Estimates for 17 Contracts: A112, A130, A135, A141, A145, A146, A165, A171, A175, A610/A115, A616, A620, A632, A640, A710, A740 and A745.

(9) Completed Audit on 9 Force Account Close-Out Packages: A141-CO-008, A141-CO-010F, A145-CO-021, A145-CO-037, A610-CO-004, A610-CO-007, A610-CO-008, A610-CO-009 and A610-CO-012.

(10) Began testing PC TRACS for potential use on the Project.

(11) Reviewed Part I Schedule for A630, revised Part II for A112 and revised Part II Schedule for A145.

(12) Prepared Contract Action Plan schedules for A146, A171/A175 interface.

(13) Prepared all Level III network inputs to quarterly progress report and Revision 6D.

(14) A112-CR-069 Reviewed proposed settlement.

(15) A130-CR-002 Reviewed contractor proposal.

(16) A130-CR-021 Prepared estimate for change in Concrete Water Cement ratio.

(17) A130: Preliminary review of Cost Reduction Incentive Proposal to substitute compaction grouting for chemical grouting. Attended meeting with concerned parties.
(18) Began setting up Library of Cost Reference Guide Equipment including ownership and operating costs.
(19) A135-CR-004: Reviewed miscellaneous submittals and changes, Baggage Handling Facility.
(20) A135-CR-026: Reviewed Resident Engineering estimate and contractor proposal for removal of canopies 1, 2, 7 and 8.
(21) A135-CR-029: Prepared estimate for change in concrete water cement ratio.
(22) A135: Completed estimate for revised railroad trestle at Union Station (Cost Reduction Incentive Proposal). Met with RTD for review.
(23) A141-CR-054: Began review and preparation of estimate added or relocated curbs at Emergency Fan rooms.
(24) A141-CR-064: Reviewed estimates for replacement of 36" RCP Ventilation Duct in Hill Street.
(25) A145-CR-035: Reviewed Sanitary Sewer Revision estimate with RE in preparations for negotiations.
(26) A145-CR-117: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio.
(27) A146-CR-026: Prepared and reviewed equipment operating costs for Force Account work on compaction grouting.
(28) A146-CR-029: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio.
(29) A165-CR-010: Prepared estimate for miscellaneous changes.
(30) A165-CR-022: Began review of changes to sanitary sewer line and manhole on Flower Street.
(31) A165-CR-034: Began review of RE estimate for underpinning Home Savings/RTD entrance.
(32) A165-CR-042: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio.
(33) A171-CR-025: Prepared preliminary estimate for proposed change in Concrete Water Cement Ratio.
(34) A175-CR-011, CR-025 and CR-028: Compared contractor proposals with PDCD estimates in preparation for negotiations.
(35) A175-CR-032: Reviewed RE estimate for two galvanized steel angle frames.
(36) A175-CR-038: Prepared estimate for elevator hydraulic pipes.
(37) A745-CR-006: Prepared estimate for providing interim storage facilities required due to revised delivery.

J. CM Meetings in January 1989

Date	Agency/Company	General Subject
January 3,23	RTD	CCB Meeting
January 3	Smith-Emery	Welding Inspection
January 3,10,17,24	RTD/MRTC	Project Status Review

Date	Agency/Company	General Subject
January 4	RTD, BAH, MRTC, LAFD, LACOFD, LAPD, RTD Police, LACOSO	F/LS Safety F/LS Security
January 4,11,18,25	LADOT	Weekly LADOT MOS-1 Inspection
January 5	AGC, Contractors, Insurance Carriers/Brokers	State Wide Safety Issues
January 5	Shank-Ohbayashi/GKN Hayward Baker	A146 - Chemical Grouting.
January 5	Orange County Metal Works	Shop Survey
January 5	Angeles Steel Welding & Mfg. Inc.	Shop Survey
January 6,13,27	RTD	CM Progress Review
January 6,13,27	RTD	Contract Action Plan Meeting
January 9	Dames & Moore	A146 - Soil Sampling Through Magnetometer Probe Hole.
January 9,10	RTD,MRTC, H. J. Degenkolb	A146 - Cohesionless sands above tunnels.
January 9	SCRTD, DIA	Safety Manual Revision
January 9	RTD	System Safety
January 10	LADOT	A610/A115 Traffic Submittals
January 10	Paramount Metals	Welding/Fabrication
January 11,12	DWP	Metro Rail Presentation
January 11	Japan Consulate, Mr. Santo	Metro Rail Briefing
January 11	MRTC, Utilities	B-330 Utility Coordination Meeting
January 11,25	RTD	Program Control, RTD/PDCD
January 11,25	SCRTD, DIA, Argonaut, LAFD, LACOFD, Contractors	Project Safety Review
January 12	SCRTD, LAFO, TS/G, CEC	Coordinated Mine Rescue Plan
January 12	LADOT	A146, A165 Traffic Submittals
January 12	Information Handling Services	ASTM & Reference Standards
January 13	RTD	Processing of As-Builts
January 14	Highland Pacific Railroad Association	Metro Rail Presentation

Date	Agency/Company	General Subject
January 14	LACTC/Student Program	Metro Rail Jobsite Visit
January 17	LGCA	Community Relations Update
January 17	Granite Construction, Werner & Associates Eng.	A165 - Shoring and Decking Systems
January 18	B. Bicker/Mayor's Office	Metro Rail Jobsite Visit
January 19	RTD, MRTC, Tutor-Saliba/ Perini, GKN Hayward Baker, City of LA	A130 - Compaction Grouting Value Engineering Report
January 19	Tutor-Saliba-Perini	A130, Compaction Grouting in Lieu of Chemical Grouting
January 19	RTD, MRTC, TSP, GKN Hayward Baker, LA City	A130 Cost Reduction Incentive Proposal to Substitute Compaction Grouting in Lieu of chemical Grouting Under Center Street Crossing
January 20	City of L.A.	Amtrak Machine Shop HVAC Permit Addendum
January 20	City of L.A.	Sewer Manhole Support at Macy/Alameda
January 20	RTD, MRTC, Tutor-Saliba/Groves	A141 - Grouting Protection for 27" Sewer Overlying Tunnels.
January 20	RTD, MRTC, Converse Consultants	A146 - Cohesionless Sand Differing Site Condition Claim
January 20,27	RTD, MRTC	Schedule Analysis, A147
January 23	TS/G	Confined Space Operation
January 25	MRTC	A146 - Additional Compaction Grout Holes
January 25	MRTC, Tutor-Saliba/Groves, Geofon, Inc.	A146 - Tunnel Lining Distortion Measurements
January 26	RTD	A135 Cost Reduction Incentive Proposal for Railroad Trestle
January 26	LADOT	Coordination Meeting
January 26	RTD	Safety Certification

SECTION VII

SUMMARY OF ACTIVITIES PLANNED FOR FEBRUARY

MTA LIBRARY

VII. SUMMARY OF ACTIVITIES PLANNED FOR FEBRUARY 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.

B. Quality Assurance

(1) Monitor performance of Smith-Emery activities and improve control over costs.
(2) Document welding inspection deficiencies on A165.
(3) Verify adequacy of contractor HDPE testing and documentation on A141, A165, A171 and A175.
(4) Conduct shop survey on at least two system contractor suppliers.
(5) Verify performance of site concrete inspection/test in accordance with specification requirements.
(6) Finalize with RTD content of safety certification file on facility contracts.
(7) Develop and implement computer program for monitoring concrete cylinder tests.

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, A740 and A745.

D. Contracts and Procurement

(1) Submit recommendation to District for annual agreement(s) for office products and upon receipt of District approval, issue agreement(s).
(2) Prepare amendment to laboratory and field testing Subcontract to increase funding and to incorporate Change Order and submit to District for review and approval.
(3) Upon receipt of District approval, issue Request for Quotations for five additional Personal Computers. If results of RFQ are advantageous to PDCD and District, issue procurement instrument.
(4) Issue Change Order to the Photographic Services Subcontract for additional requirements to accommodate multiple reprint orders to reduce cost of such reprints.

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 subcontractor.
(4) Submit the revision of the Construction Safety and Security Manual for final approvals.
(5) Update the Emergency Response Plan.

G. Construction Operations

(1) Continue construction management (CM) services at Contracts A112, A121 (contract close out), A130, A135, A141, A143, A144, A145/A145A, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745 and A795; monitoring of utilities relocations, and submittal reviews.
(2) Continue coordination and MOS-1 inspection with LADOT.
(3) Continue coordination of necessary requirements to obtain occupancy permit for AMTRAK Machine Shop (A141).
(4) Continue monitoring of Ballona Creek and Los Angeles River discharges from A141, A144, A145, A171 and A175.
(5) Continue review of Contractor's monitoring for wastewater discharges at A144, A145, A146, A171 and A175 and noise monitoring for A171.
(6) Complete Site Assessment and Closure Reports for contaminated soils in A112.
(7) Continue monitoring removal and disposal of contaminated soil at A130 and A145.
(8) Start asbestos abatement work for REA building, A135 and air monitoring at A165.
(9) Submit Annual and January Discharge Monitoring Report and Los Angeles River Report.
(10) Continue to monitor instruments and building settlement marks, various contracts.

(11) Continue to monitor elevation of water in MacArthur Park Lake.
(12) Continue to check Contractor's control points and layouts.
(13) Continue to perform survey tasks as requested by R.E.s.
(14) Calculate and tabulate as-built alignment for A146, AL Tunnel and A141, AR Tunnel.
(15) Continue to perform survey for invert pour in A171, AL Tunnel.

H. Engineering Services

(1) 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 and A795.
(2) Complete reviewing second iteration of A130 compaction grouting Value Engineering Proposal.
(3) Continue inspecting geotechnical instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165, A171 and A175.
(4) Continue to produce A161 as-built drawings.

I. Project Controls

(1) Process Monthly Payment Estimates for all active contracts.
(2) Finalize procedures associated with Force Account work and Force Account close-out audit.
(3) Continue close-out audits for Force Account Change Orders.
(4) Continue testing PC TRACS.
(5) Finalize five year plan associated with PDCD manpower and cost requirements.
(6) Review Part I schedule for A615. Continue review of revisions to A141 and A146 Part II schedules.
(7) Review monthly contractor progress reports.
(8) Prepare contractor progress inputs to RTD monthly status report.

SECTION VIII

SUBCONTRACTOR/CONSULTANT STATUS

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VIII. SUBCONTRACTOR/CONSULTANT STATUS

The following 5th AWP Subcontract Status Report provides a current status of subcontracts awarded to the twelve associate and four consultant subcontractors. The Report shows major milestones for each subcontractor action from receipt of the requisition, execution of the document and includes an abbreviated description of the subcontract amendment issued.

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT

JANUARY 27, 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
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
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

**IN PROCESS

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

JANUARY 27, 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
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	06/14/88	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
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	12/30/88		N/A	N/A	N/C	12/30/88	ADDS ITEMS
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

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FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

JANUARY 27, 1989

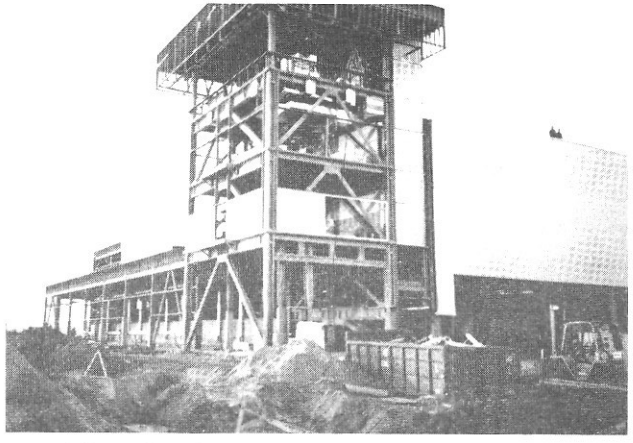
SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI-SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
29-SC-3369-1	SUBWAY TERMINAL BLDG (A145/146 SITE OFFICE LEASE)	N/A	N/A	N/A	N/A	N/A	N/A	06/01/88	06/02/88	$56,910	N/A	EXER 1YR OPT
33-SC-3369-1	F.E. ENDACOTT (CONSULTING AGREEMENT)	05/16/88	N/A	N/A	N/A	05/16/88	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
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		N/A	N/A	N/C	01/26/89	ADMINISTRATIVE

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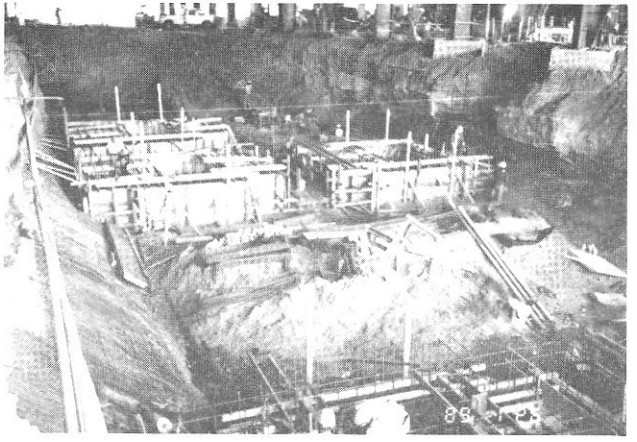
SECTION IX

CONSTRUCTION PROGRESS PHOTOS

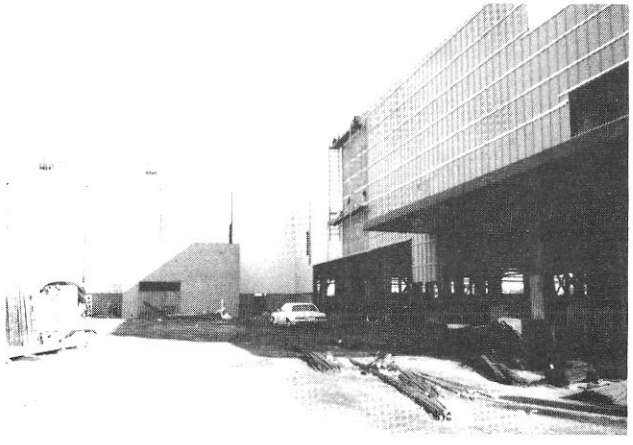
MAIN SHOP BUILDING
CONTRACT A112



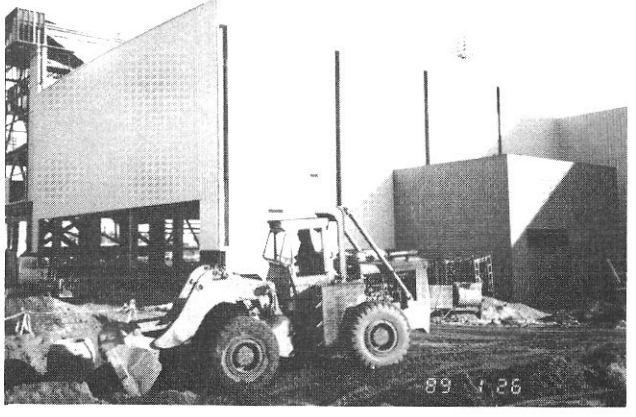
CONTROL TOWER AND BLOWDOWN FACILITY



FORMS FOR CAR HOIST PITS



METAL PANEL SIDING AND
TRACTION POWER SUBSTATION

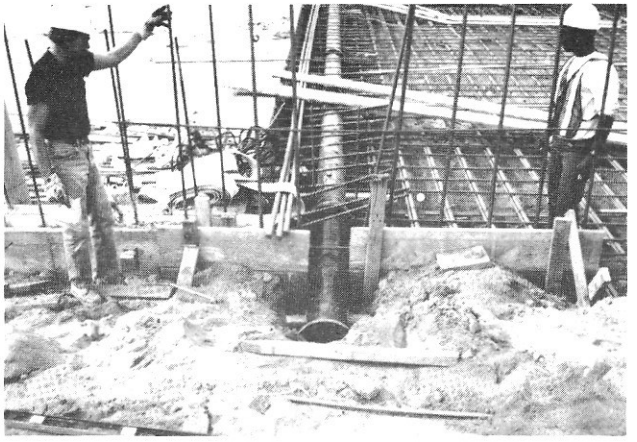


TPSS & NORTH WALLS OF SERVICE & INSPECTION AREA.
CONTROL TOWER IN BACKGROUND

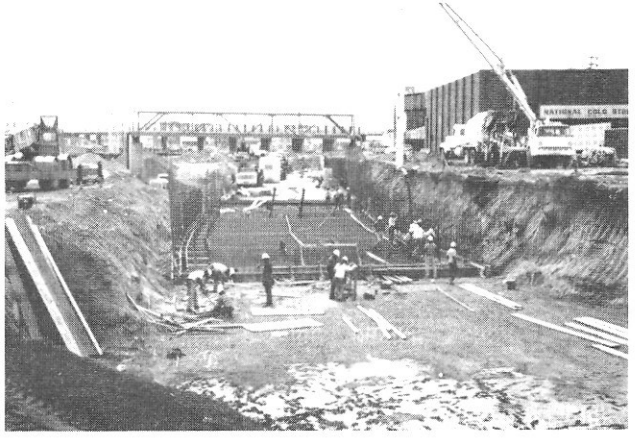
YARD LEADS & TRANSFER ZONE
CONTRACT A130



INSTALLING SOLDIER PILES IN BOX STRUCTURE AREA



INSTALLING FIRE PROTECTION LINE IN BASE SLAB

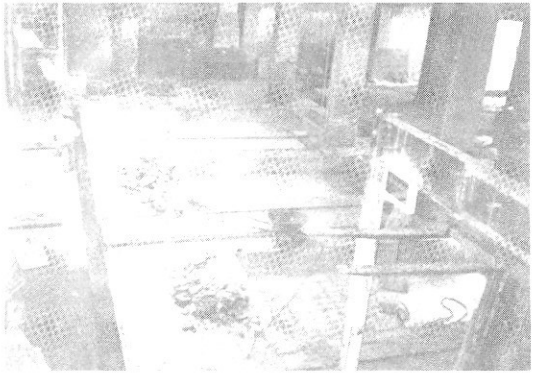


PLACING CONCRETE IN "U" BASE SLAB

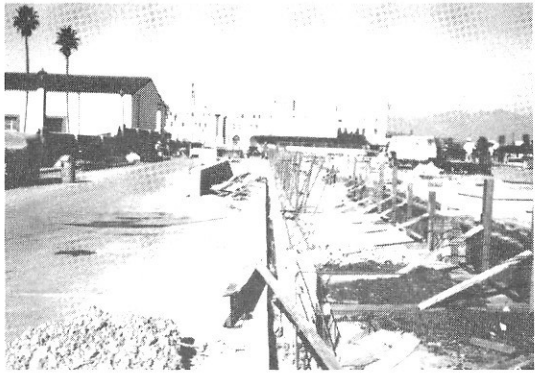


EXCAVATION IN BOX STRUCTURE AREA

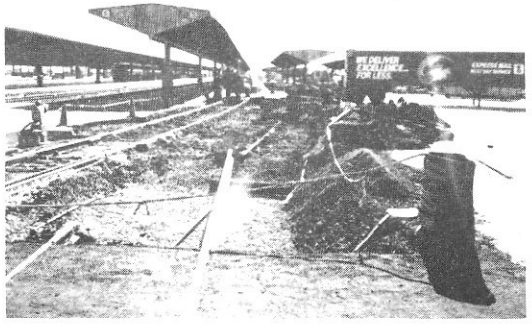
UNION STATION
CONTRACT A135



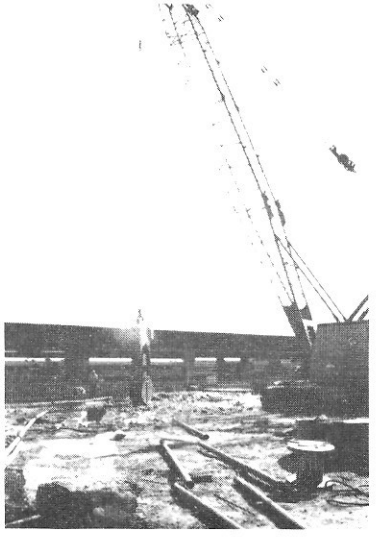
BOILER ROOM, AFTER REMOVAL OF BOILERS



BAGGAGE HANDLING FACILITY. STEM WALLS FOR COVERED WALKWAY AT TRACK LEVEL



TRACK NO. 5 RELOCATION



EXCAVATION OF SLURRY WALL USING 8 TON CLAM BUCKET

LOS ANGELES **METRO RAIL**

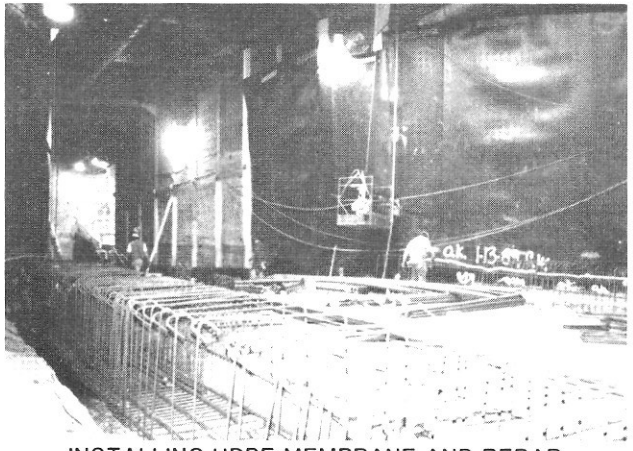
RTD

PDCD

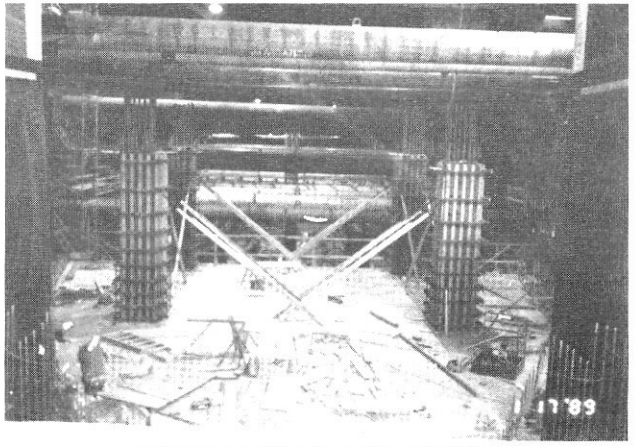
CONTRACT PERFORMANCE REPORT

PERIOD JANUARY 1989

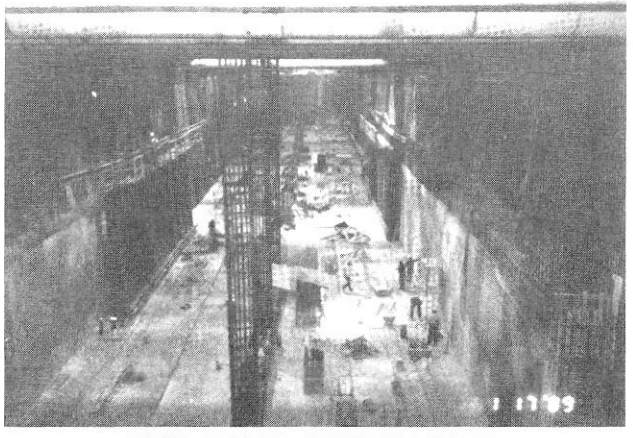
CIVIC CENTER STATION AND TUNNEL
CONTRACT A141



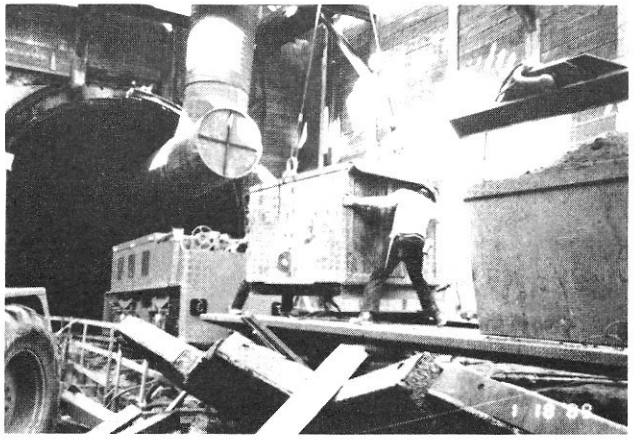
INSTALLING HDPE MEMBRANE AND REBAR
IN SOUTH BLAST RELIEF



NORTH BLAST RELIEF SHAFT
AFTER FIRST INVERT POUR



CIVIC CENTER STATION DURING
CONCRETE PLACEMENT

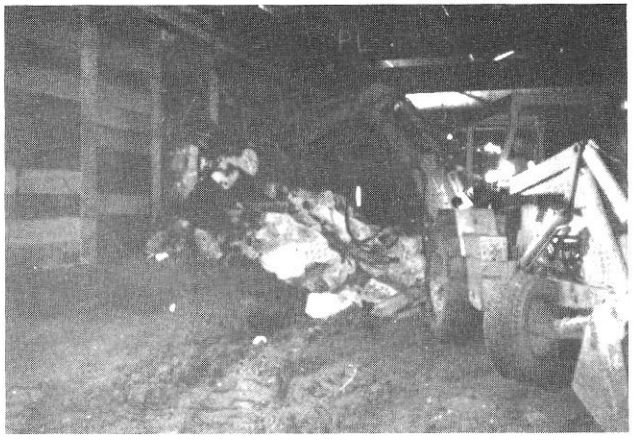


REMOVING EXCAVATED MATERIAL FROM UNION
STATION SHAFT DURING TUNNELING OF AR TUNNEL

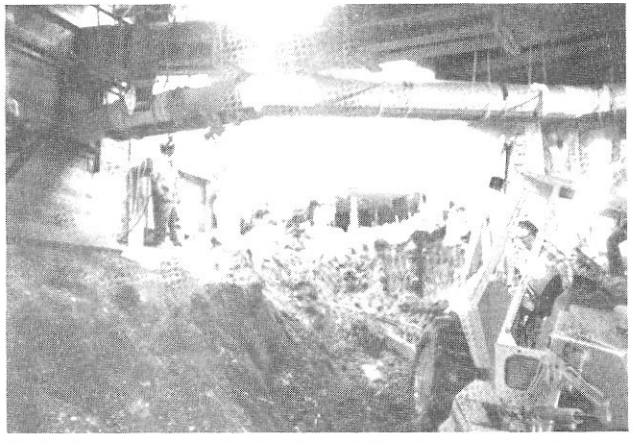
5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I
CONTRACT A145/A145A



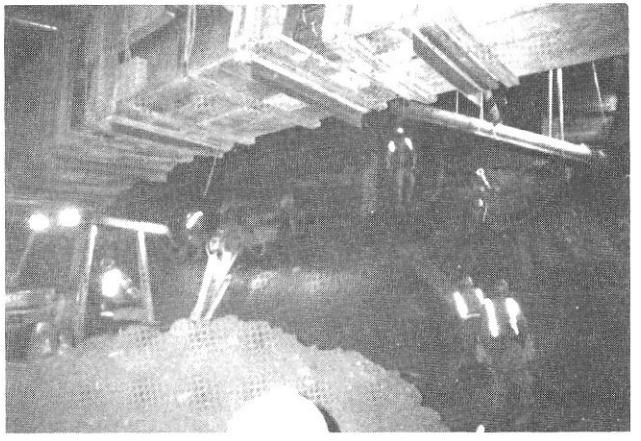
INSTALLATION OF 18" DIAMETER STORM DRAIN LINE # 6



REMOVAL OF CONCRETE FOUNDATION OF AN ABANDONED STRUCTURE NEAR THE EQUITABLE BUILDING

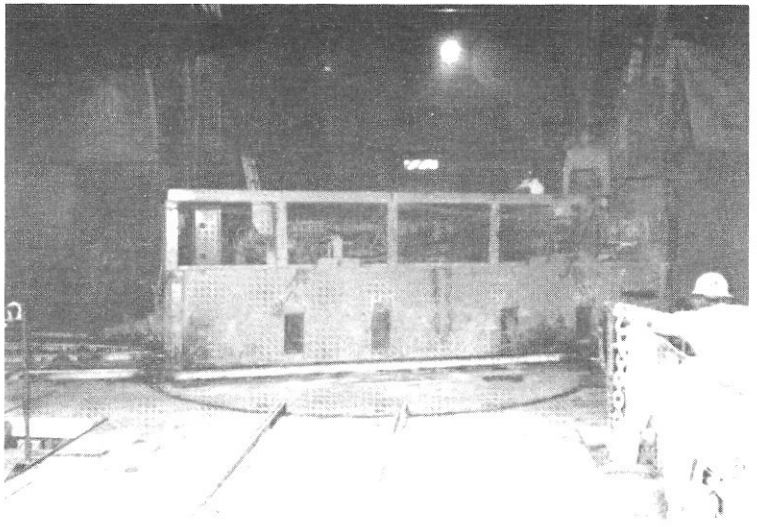


SOUTHEND STATION EXCAVATION AND DEMOLITION OF NORTHEAST CORNER OF PERSHING SQUARE GARAGE



SOUTHEND STATION EXCAVATION TO SOUTH BULKHEAD

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



DEISEL LOCOMOTIVE BEING SWITCHED
ON TURNTABLE SWITCH



DIESEL LOCOMOTIVE TRAMMING PRE CAST TUNNEL
LINER SEGMENTS TO TUNNEL FACE

LOS ANGELES **METRO RAIL**

PDCD

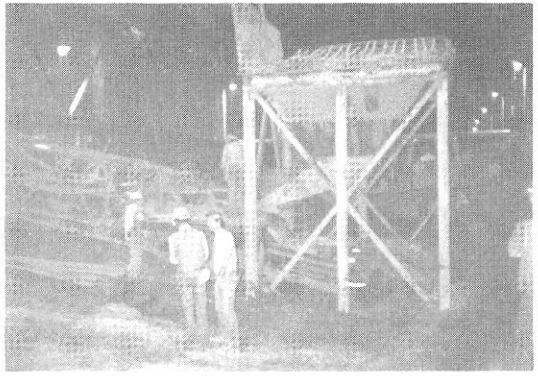
CONTRACT PERFORMANCE REPORT

PERIOD JANUARY 1989

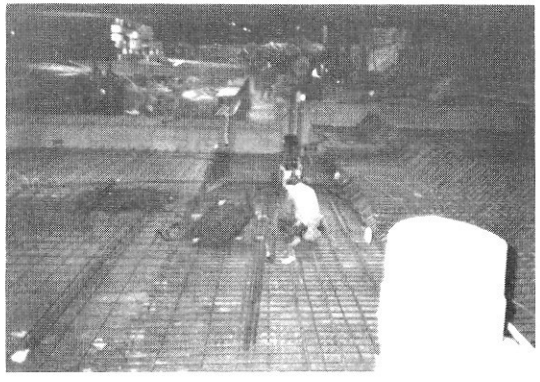
7TH/FLOWER STATION
CONTRACT A165



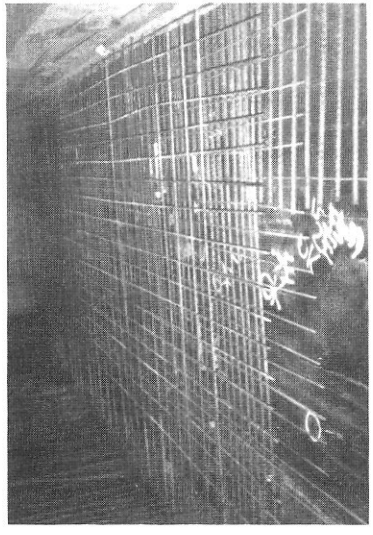
RESTORATION OF LEBANON STREET



DISMANTLING OF HIGH ANGLE CONVEYOR AT LOWER HOPPER



PREPARATION FOR BASE SLAB PLACEMENT IN EXCAVATED STATION AREA

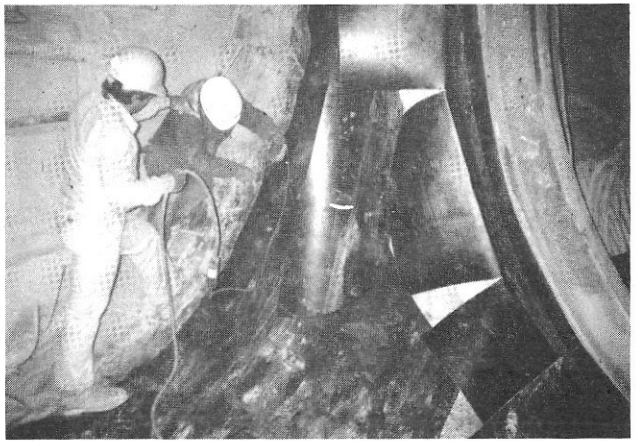


WEST WALL AT SOUTH INTERFACE INSTALLATION OF REBAR

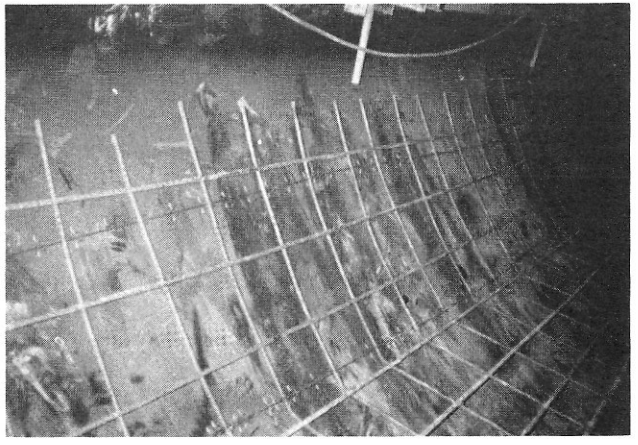
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO
CONTRACT A171



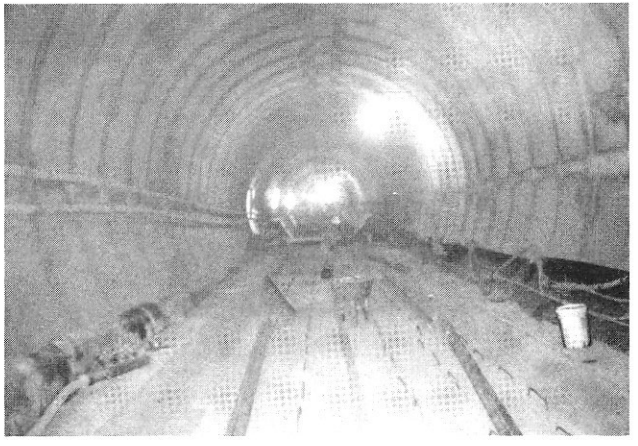
AL TUNNEL INVERT RESTEEL BOTTOM MAT
STATION 208+00 TO 209+00



AR TUNNEL CROSS PASSAGE #10.
HDPE INSTALLATION



AL TUNNEL INVERT RESTEEL BOTTOM MAT STA 208+00±



AL TUNNEL INVERT CONCRETE AT STA 214+00
LOOKING WEST

LOS ANGELES **METRO RAIL**

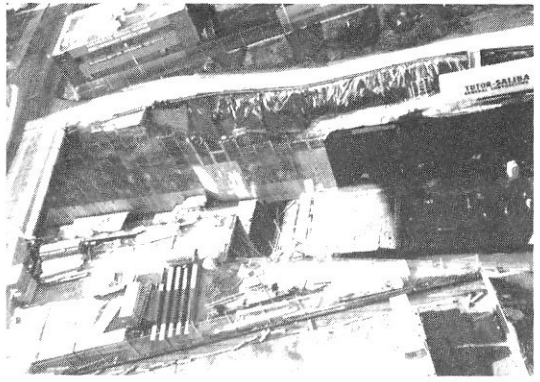
RTD

PDCD

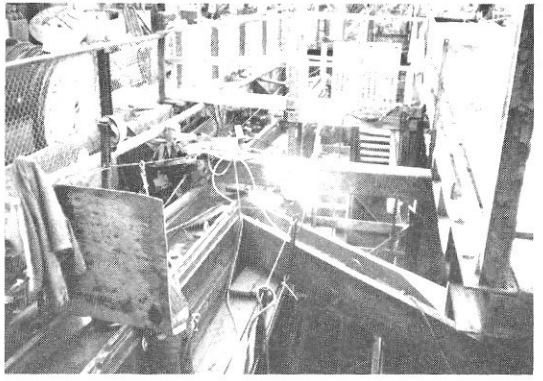
CONTRACT PERFORMANCE REPORT

PERIOD JANUARY 1989

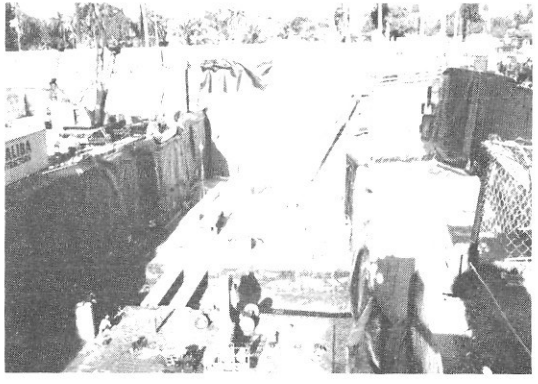
WILSHIRE/ALVARADO STATION - STAGE I
CONTRACT A175



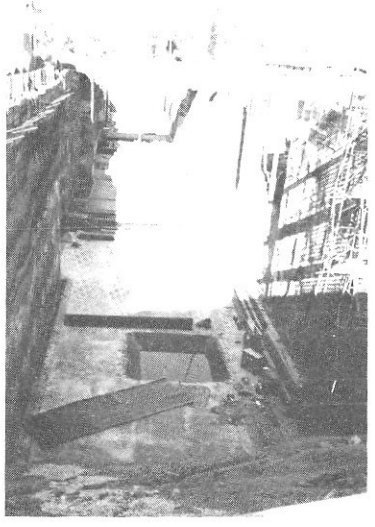
OVERHEAD VIEW OF EXCAVATED AREA WEST OF WESTLAKE AVE. CONTRACTOR IS INSTALLING HDPE LINER OVER PLYBOARD. PLYBOARD IS UTILIZED DUE TO ROUGHNESS OF SHOTCRETE



FABRICATION OF ADDITIONAL A171/A175 INTERFACE SUPPORT



OVERHEAD VIEW OF MAIN STATION EXCAVATION WEST OF WESTLAKE AVE., ADJACENT TO ALVARADO ST.



MAIN STATION EXCAVATION EAST OF WESTLAKE AVE., ADJACENT TO A171 CONTRACT

LOS ANGELES **METRO RAIL**

RTD

PDCD

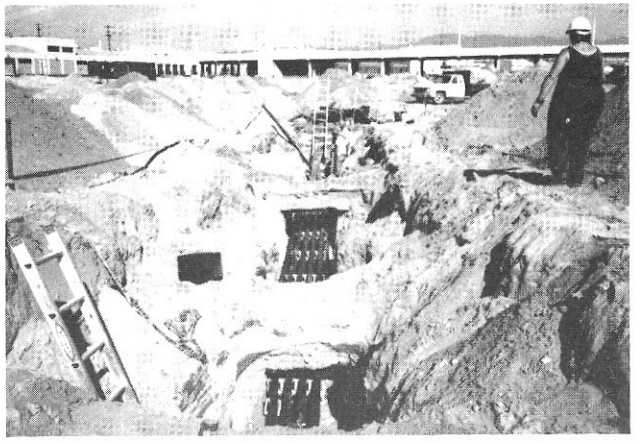
CONTRACT PERFORMANCE REPORT

PERIOD JANUARY 1989

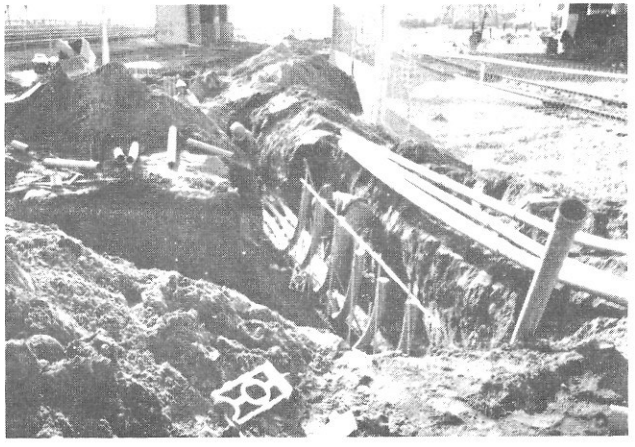
TRACKWORK INSTALLATION/YARD STORAGE AREA
CONTRACT A610/A115



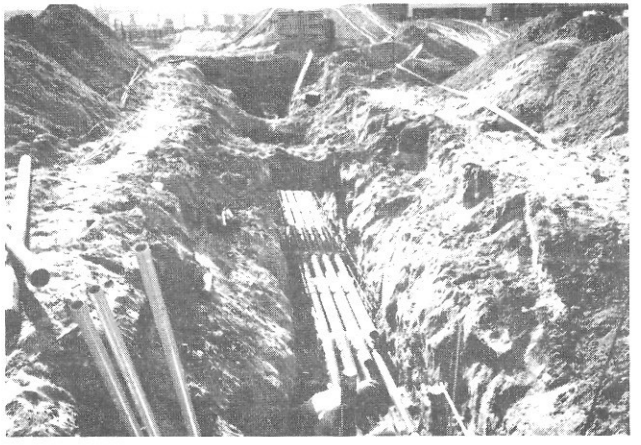
INSTALLATION OF SANITARY SEWER AT 3RD ST. & SANTA FE AVE.



INSTALLATION OF TRACTION POWER DUCT BANKS, LOOKING NORTH TOWARDS 1ST ST. BRIDGE



INSTALLATION OF TRACTION POWER DUCT BANKS, LOOKING SOUTH TOWARDS 6TH ST. BRIDGE



INSTALLATION OF TRACTION POWER DUCT BANKS, LOOKING NORTH TOWARDS 1ST ST. BRIDGE