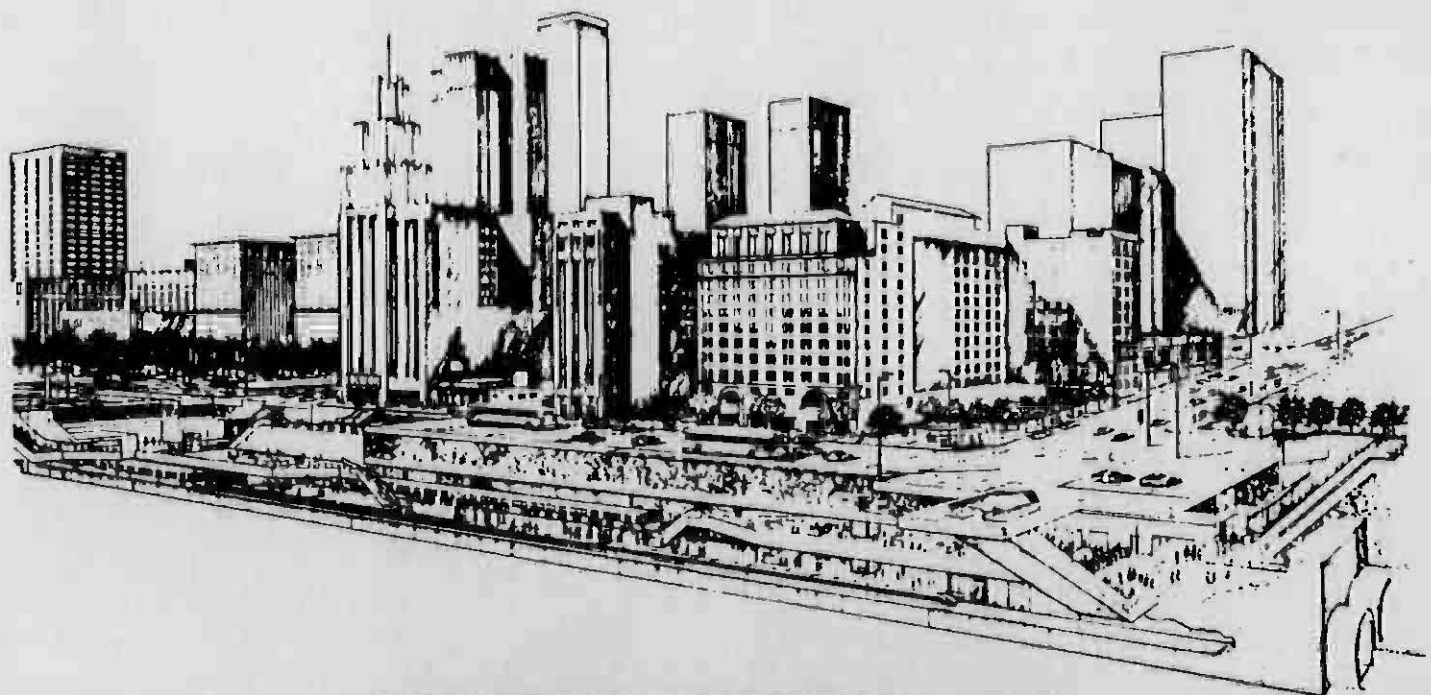


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no. 39



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



REPORT NUMBER 39
SEPTEMBER 1987

PDCD

**MONTHLY CONTRACT
PERFORMANCE REPORT**

for the

LOS ANGELES METRO RAIL PROJECT

SEPTEMBER 1987

presented to

Southern California Rapid Transit District

CONTRACT NO. 3369

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

Month SEPTEMBER Year 1987



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1987

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SECTION I

**CONSTRUCTION MANAGER'S
SUMMARY STATEMENT**

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CONTRACT PERFORMANCE REPORT

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I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

MAJOR CM ACTIVITIES

This Contract Performance Report (CPR) for the month of September 1987 is the third CPR in the Fourth Annual Work Plan (4th AWP) and covers the period August 29 through September 25, 1987.

CONSTRUCTION OPERATIONS: Continued to provide construction management services for Contracts A-121, A-141, A-145, A-146, A-161, A-171 and A-175. Continued to monitor utilities relocation work in association with construction activities. Reviewed submittals for utility, traffic and environmental controls requirements. Continued site layout preparation, technical coordination, and review for A-141 groundwater treatment facilities. Conducted water quality review and monitoring. Monitored soil contamination in A-141 and A-146. Conducted asbestos investigations at A-145 and A-146 and prepared findings and instructions for removal.

PROJECT CONTROLS: Reviewed A-141 Contractor Part II Schedule resubmittal and A-175 Contractor Part I Schedule submittal. Processed Change Orders for A-121 (CO-001, CO-002 and CO-005), A-141 (CO-004, CO-008 and CO-009), A-145 (CO-003) and A-161 (CO-005, CO-006 and CO-007). Processed Change Requests A-121 (CR-016), A-141 (CR-018), A-145 (CR-015, CR-016), A-161 (CR-025) and A-175 (CR-003). Calculated Liquidated Damage Values associated with 45 Day Window Report. Submitted claims logs for A-121, A-141, A-145, A-146, A-161, A-165 and A-175. Reevaluated estimates on A-145, CR-004 and CR-009. Prepared evaluation of RTD's estimate on A-121, CR-008 and CR-010. Continued A-141, CR-000 and CR-001 estimate analysis. Prepared preliminary estimate on A-171 CR-001. Prepared Construction Impact Study of Sunset Blvd., Aerial, Cut and Cover and Tunnel to support RTD environmental hearings. Summarized A-145 Part II Schedule submittal and impact to the MOS-1 Level III Construction Schedule. Revised method for budgeting, reporting and control of General Condition Items associated with 4th AWP. Prepared input for Rev. 5D Schedule and conducted a schedule analysis. Revised the "Construction Cost Performance and Construction Progress Curves" based on Financial Plan - Rev. 5C dated 8/13/87.

CONTRACTS/PROCUREMENT: Continued support activities for equipment to be purchased by A-141 contractor for water treatment plant. Assisted RTD in evaluation of bids for construction of Main Shop Building, Contract A-112 by obtaining supplemental information on low bidder. Initiated commercial and technical evaluation of proposals for Water Leak Survey and Rodent and Pest Control Services subcontracts. Submitted for RTD approval Amendment No. 1 to Subcontract with Kennedy/Jenks/Chilton for completion of design engineering of Water Treatment Plant. Submitted all remaining amendments to Associate Subcontracts and Consultant Agreements to RTD for approval of 4th AWP requirements. Submitted recommendation for award to RTD of purchase order for

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additional office copier for PDCD central office. Issued one Amendment to Associate Subcontractor for AWP-4 requirements as approved by RTD.

ENGINEERING SERVICES: Reviewed and submitted comments on draft addendum for Contract A-135 Union Station and Contract A-610/A-115 Trackwork and Yard Area bid documents. Started spot checking and logging A-145 soldier pile holes. Reviewed Contractor claim for an extra due to striking hard cemented sandstone layers in the soldier pile holes penetrating the soft bedrock of Civic Center Station. Reviewed A-146 Contractor's compaction grouting designs for two Type II structures.

For contract A-121, reviewed and approved Contractor's submittals for acoustical materials, HVAC data, ventilation fans, and miscellaneous metals for toilet areas. Approved as noted submittals for toilet partitions, concrete, mixes, highbay mounting details, and handrails. Rejected submittals for ceramic tiles and cabinet details.

For Contract A-141, reviewed and approved Certificate of Compliance for VCP pipe. Approved as noted submittals for excavation support system soldier piles designs, excavation support procedures, and temporary decking. Rejected a submittal for manholes.

For Contract A-145, reviewed and approved submittals for temporary decking (partial), electrical materials, non-shrink grout tests, welder qualifications, and Certificate of Compliance for lumber. Approved as noted submittals for temporary decking (partial), concrete formwork for vaults, rebar list for vault work, closure wall lift drawings for vault work, and electrical equipment. Rejected submittals for temporary decking details and plumbing material.

For Contract A-146, reviewed and approved Contractor's submittals for geotechnical instrumentation, adit support design, pre-cast concrete segments and tunnel instrumentation. Approved as noted submittals for gas detection instrumentation and deletion of tape extensometers.

For Contract A-171, reviewed and approved Contractor's submittals for geotechnical instrumentation and shaft access bridge. Approved as noted submittals for excavation support, gas detection instrumentation, deletion of tape extensometers, and tieback procedures.

For Contract A-175, reviewed and approved Contractor's submittals for geotechnical instrumentation, and Certificates of Compliance for VCP pipe. Approved as noted a submittal for lagging at bed rock. Started mapping exposed geology in the Wilshire/Grand underpinning pits in Contract A-146.

SAFETY/SECURITY: Performed daily Safety Surveillance and prepared reports for the A-121, A-141, A-145, A-146, A-161, A-171 and A-175 construction sites. At the A-146 site, a minor fire occurred in the Wilshire/Grand Building. Increasing crime in the A-145 and A-171 work areas has caused the respective contractors to substantially increase security.



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MISCELLANEOUS: Assisted RTD in the resolution of community-related problems caused by Metro Rail construction and conducted contract compliance activities relative to Equal Opportunity goals at all of the construction sites.

MANPOWER PERFORMANCE

The manpower performance for September is measured against the approved planned staffing for the 4th AWP. During September, the permanent staff level of 111 increased by 5 to 116. The planned staff level for September was 117. Therefore, the actual permanent staff count for September is 1 below the planned staffing level. The staff breakdown by company was 71 for the Joint Venture firms and 45 for the Associate Subcontractors.

The September period had 152 available workhours/person. The plan provided for expenditure of 18,424 hours, including "as-required" manhours which would have generated a projected equivalent head count of 121.0 personnel at 152 hours/person. Actual hours expended were 16,402 which translates into a 108.0 equivalent head count at 152 hours/person including temporary personnel, resulting in the equivalent of 13.0 personnel under the revised plan.

EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance in September measured under four categories - DBE, WBE and Minority and Women Affirmative Action, was as follows:

- o Cumulative DBE participation for the Fourth Annual Work Plan through the month, measured against a total cost basis was 16.1%, 0.9% under the goal of 17%. This was due to VCM's decertification as a DBE.
- o Cumulative WBE participation for the Fourth Annual Work Plan through the month, measured against a total cost basis was 5.4%, 2.4% over the goal of 3%.
- o Minority and Women Affirmative Action performance for the month exceeded the established goals of 17% and 8% by 16% and 6% respectively.

SCHEDULE PERFORMANCE

- o CM Manuals/Procedures - The Emergency Response Plan, Revision No. 1 was finalized and issued to controlled manual holders.

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- o Constructibility Reviews - Started Constructibility Review of A-795/100% and completed review of A-130/60%.
- o Contractor Submittals - During this period, the following 97 submittals were received as per contract number: A-121 (14), A-141 (16), A-145 (43), A-146 (9), A-161 (1), A-171 (7), and A-175 (7); 80 packages were processed.

COST PERFORMANCE - Fourth Annual Work Plan

- o Total incurred costs for CM Direct Services for the period were under the plan of \$880K by \$36K. This variance results from the net effect of other Direct Costs (ODCs) being over the plan by \$56K. Labor expenditures (total PDCD and subcontractors) being under the plan by \$92K.
- o The September CPR indicates an estimate at completion for the 4th AWP of \$13,732K versus a budget of \$13,773,900, thereby projecting a potential underexpenditure of \$42K for the plan including General Condition Items.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) were over the plan of \$10K for the period by \$30K. This report forecasts an estimate of completion for GCI's of \$639K versus a September plan of \$480K, for a projected overplan expenditure of \$159K.

During the period a letter was transmitted to RTD requesting that the budget for General Condition Items be increased to \$1,000,000 based on both current and projected levels of activity.

GENERAL

- o This "Monthly Contract Performance Report" covers progress relative to PDCD's CM Services contract with the RTD. Each month, in conjunction with this report, a "Monthly Construction Performance Report" is prepared covering actual Metro Rail construction progress. The two reports in combination present a comprehensive review of the Metro Rail Program's progress and each should be referenced appropriately.
- o The PDCD Joint Venture Executive Board (JVEB) Meeting No. 10 is scheduled for Friday, October 23, 1987.


Melvin L. Polacek
Construction Manager

Parsons-Dillingham-De Leuw, Cather

SECTION II
MANPOWER PERFORMANCE

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CONTRACT PERFORMANCE REPORT

PERIOD SEPTEMBER 1987

II. MANPOWER PERFORMANCE

This CPR for the month of September compares actual manpower to the Planned Phase II Construction Services manpower as established in the approved 4th AWP. Table II-1, Page 6, illustrates planned staffing, actual permanent staff count for September; variances of actual permanent staff to planned and temporary staff.

During September, the actual permanent staff level of 111 had a net increase of 5 (Additions: 1 Communications R.E., 1 Sr. Structural Engineer, 1 Environmental Engineering Technician, 2 Engineering Geologists, 2 Inspectors; Deletions: 1 Manager, Facilities Construction, and 1 Sr. Data Technician, Document Control) for a total of 116. NOTE: Shop Drawing Coordinator was reassigned as Assoc. Inspec./Field Office Engr.; Jr. Estimator was reassigned as Shop Drawing Coordinator. The planned staff level for September was 117; therefore, the actual permanent staff count for September was 1 below the planned staffing level. The current permanent staff by company is as follows:

<u>Company</u>	<u>Permanent Staff</u>	<u>Company</u>	<u>Permanent Staff</u>
The Ralph M. Parsons Company	29	Hayakawa Associates	1
Dillingham Construction, Inc.	25	Jacobs Associates	6
De Leuw, Cather & Company	17	Jenkins, Gales & Martinez, Inc.	4
Better Personnel Employment Services	9	Martin & Huang International	4
Construction Control Services Corporation	10	North Pacific Construction Management	4
Dames & Moore	1	Ochoa & Sillas	-
Engineering-Science, Inc.	3	Randolph & Tate Associates	-
		Vanir Construction Management, Inc.	3

The PDCD Manpower Chart on Page 7 illustrates planned manpower for Construction Services for the Fourth Annual Work Plan period. Actual equivalent manpower is shown for the months of July through September.

The September period had 152 available workhours/person. The plan provided for an expenditure of 18,424 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 121.0 personnel @ 152 hrs/person. Actual hours expended were 16,402 which translates into an equivalent head count of 108.0 @ 152 hrs/person including temporary personnel, resulting in the equivalent of 13.0 personnel under the plan.



LOS ANGELES METRO RAIL

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CONTRACT PERFORMANCE REPORT

PERIOD SEPTEMBER 1987

TABLE II-1 Construction Management Roster Count - September Fourth Annual Work Plan

Phase II Construction Services				Temporary Staff	Phase II Construction Services				Temporary Staff
Position	Planned	Actual	Variance		Position	Planned	Actual	Variance	
Construction Manager	1	1	0		*Manager, Engineering Services/ Systems Integration	1	1	0	
Manager, Safety and Security	1	1	0		Shop Drawing Coordinator	1	1	0	
Safety Inspector	1	1	0		Drafting Technician	1	1	0	
Manager, Quality Assurance	1	1	0		Lead Architect	1	1	0	
Quality Assurance Engineer	1	1	0		Lead Electrical Engineer	1	1	0	
Secretarial/Word Processing/Clerical/ Drafting/Courier	13	12	(1)	2	Electrical Engineer	1	1	0	
Subtotal	18	17	(1)	2	Lead Engineer, Geotech. Section	1	1	0	
Manager, Administration and Staff Support	1	1	0		Sr. Engineers/Engineers, Geotech.	3	3	0	
Manager, Project Administration/Accounting	1	1	0		Jr. Engineer/Geotech. Section	2	2	0	
Senior Accountant	1	1	0		Lead Mechanical Engineer	1	1	0	
Senior Accounting Clerk	1	1	0	1	Lead Structural Engineer	1	1	0	
Office Manager	1	1	0		Sr. Struct./Struct. Engineer	2	2	0	
Manager, Community Relations	1	1	0		Subtotal	16	16	0	
Community Relations Coordinator	1	1	0		DCM, Operations	1	1	0	
Manager, EO Administration	1	1	0		Manager, General Services	1	1	0	
EO Administrator	1	1	0		Lead Utilities Engineer	1	1	0	
Contract Compliance Specialist	1	0	(1)		Chief of Surveys	1	1	0	
Subtotal	10	9	(1)	1	Party Chief	1	1	0	
DCM, Project Controls/Engineering Services	1	1	0		Instrument Person	1	1	0	
Manager, Project Controls	1	1	0		Rod Person	1	1	0	
Lead Cost Engineer	1	1	0		Engineering Technician	1	1	0	
Senior Cost Engineer	1	1	0		Lead Environmental Engineer	1	1	0	
Cost Engineer/Analysts	2	2	0		Environmental Specialist	2	2	0	
Lead Change Control	1	1	0		*Manager, Facilities Construction	1	0	(1)	
Change Control/Claims Proc. Spec.	1	1	0		Resident Engineers	7	6	(1)	
Lead Planner/Scheduler	1	1	0		Assistant Resident Engineers	0	1	1	
Planner/Schedulers	5	5	0		Chief Inspectors	6	5	(1)	
Lead Estimator	1	1	0		Sr. Inspectors/Inspectors	9	12	3	
Sr. Estimator	1	1	0		Office Engineers	6	8	2	
Jr. Estimator	1	0	(1)		Field Secretaries	6	6	0	
Sr. Data Technician	1	1	0		Manager, Systemwide Construction	1	1	0	
Lead Document Control Specialist	1	1	0		Office Engineer - Sys.	0	0	0	
Sr. Data Technician	1	0	(1)		Resident Engineer - Train Control	0	0	0	
Data Technician	1	1	0		Resident Engineer - Traction Power	0	0	0	
File Clerk	1	1	0		Resident Engineer - Communications	0	1	1	
Subtotal	22	20	(2)		Secretary	0	0	0	
Manager, Contracts/Procurement	1	1	0		Resident Engineer - Misc. Procurement	0	0	0	
Sr. Contract Administrators	2	2	0		*Manager, Systems Integration	1	0	(1)	
Subtotal	3	3	0		Subtotal	48	51	3	
					Total	117	116	(1)	
								6	

*In an effort to reduce CH Services operating costs, PDCD has consolidated the organization by eliminating the Manager, Systems Integration position and combining it with the Manager, Engineering Services position to establish a new position entitled Manager, Engineering Services/Systems Integration. The position of FCM has been eliminated and the duties and responsibilities have been assigned to the DCM - Operations.

***As Required* Personnel:**

Personnel in the following categories are utilized on an "as-required" basis and are not permanent staff members of the PDCD organization; therefore, we have not counted them above. Their proposed manhours are included in the total planned and their actual expended hours, if incurred, are included in the "equivalent" manpower calculation:

- Arts Coordinator
- Technical Specialist
- Technical Advisors
- Legal Advisor
- Environmental Tech.
- Geotechnical Engineering Specialist
- Systems Engineering Support
- Labor Relations Advisor
- Home Office Computer Support
- Structural Engineering Support

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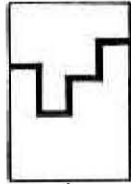
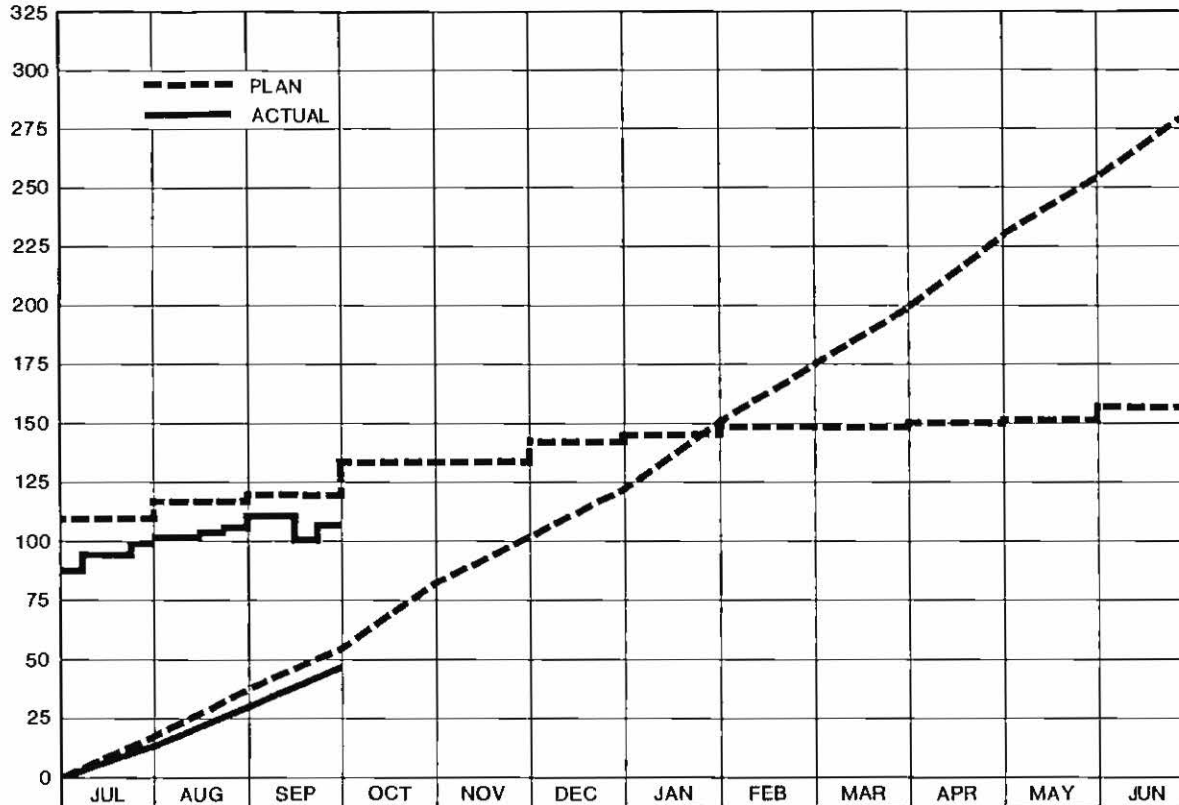
LOS ANGELES METRO RAIL

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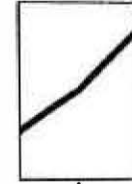
CONTRACT PERFORMANCE REPORT FOURTH ANNUAL WORK PLAN

PERIOD SEPTEMBER 1987

EQUIVALENT
MANPOWER



AVERAGE MANPOWER



CUM HOURS

		1987						1988					
HOURS/MO	PLAN	19,504	18,880	18,424	26,960	19,488	21,395	27,936	24,160	24,000	30,360	24,480	29,040
	ACTUAL	15,332	16,867	16,402									
HOURS/CUM	PLAN	19,504	38,384	56,808	83,768	103,256	124,651	152,587	176,747	200,747	231,107	255,587	284,627
	ACTUAL	15,332	32,200	48,602									
EQ MANPOWER	PLAN	111	118	121	135	135	144	146	151	150	152	153	158
	ACTUAL	96	105	108									
AVAILABLE WORK HOURS		160	160	152	200	144	149	192	160	160	200	160	184

PDCD MANPOWER

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SECTION III
EQUAL OPPORTUNITY
PERFORMANCE

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LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

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III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Fourth Annual Work Plan for September, measured on the basis of total cost was 16.9%, 0.1% below the 17% goal. The cumulative cost percent for the 4th Annual Work Plan was 16.1%, 0.9% below the 17% goal (Figure 1). This is due to the decertification of VCM as a DBE.

WBE Participation

The monthly WBE participation for the Fourth Annual Work Plan for September, measured on the basis of total cost was 6.2%, 2.2% above the 3% goal. The cumulative cost percent for the 4th Annual Work Plan was 5.4%, 2.4% 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 16% and 6% respectively.



LOS ANGELES METRO RAIL

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FOURTH ANNUAL WORK PLAN

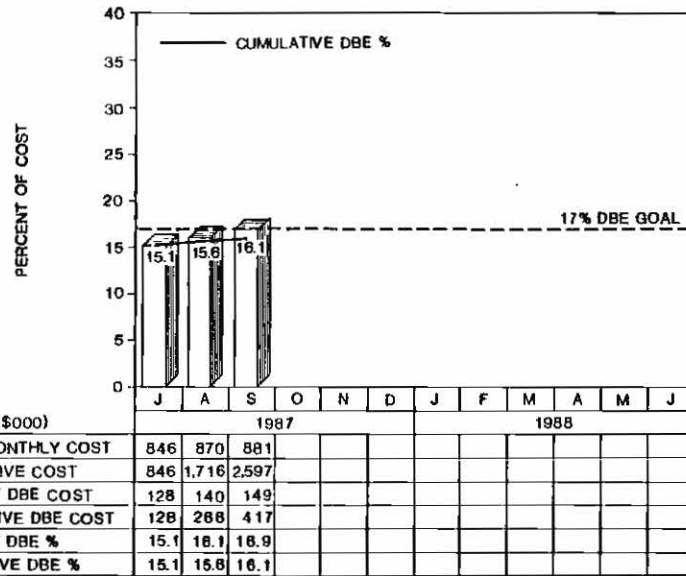


FIGURE 1 - DBE ANALYSIS

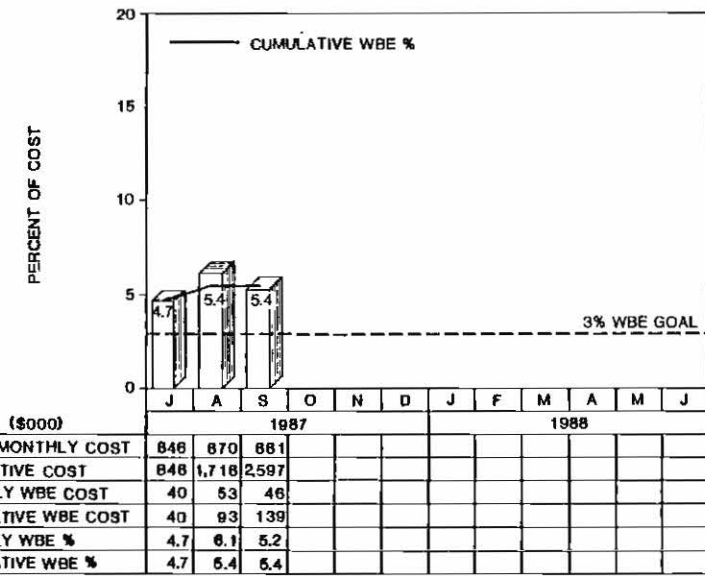


FIGURE 2 - WBE ANALYSIS

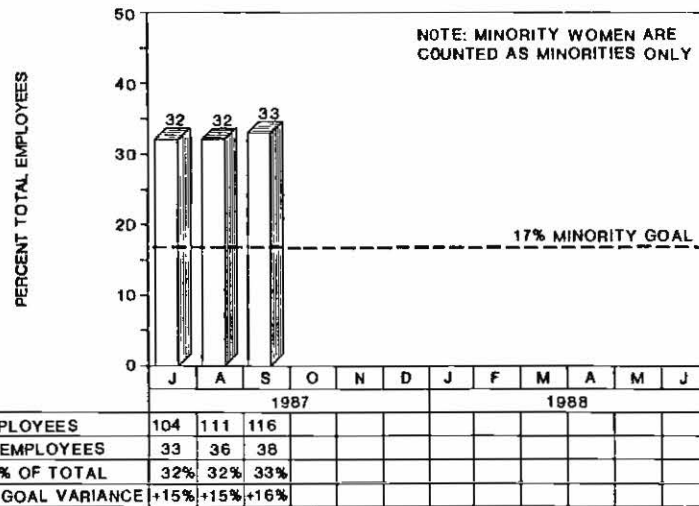


FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS

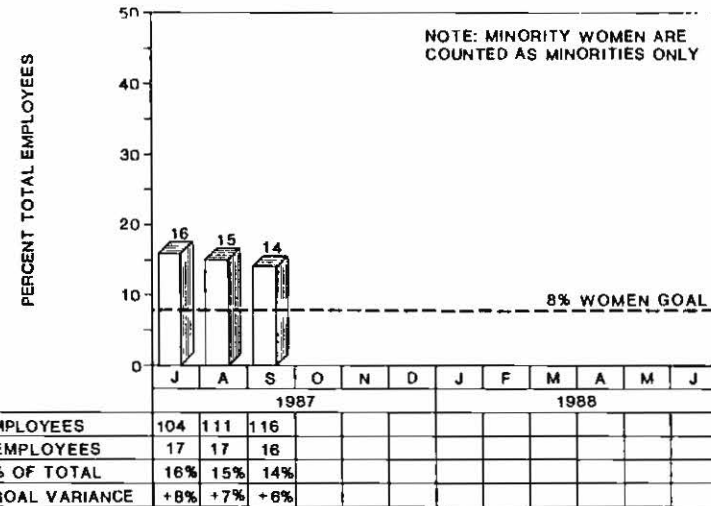


FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

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SECTION IV
SCHEDULE PERFORMANCE



LOS ANGELES METRO RAIL

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IV. SCHEDULE PERFORMANCE

Manuals and Procedures

The "Emergency Response Plan, Revision No. 1" was finalized and issued to controlled manual holders on 9/17/87.

Construction Package Reviews

Analysis of the activities on the "Design Packages Status Window Report - Current Period", (Page 11), shows the following receipt of documents and activities:

- o **Constructibility Reviews** - Started constructibility review for A-795/100%. Completed Constructibility Review of A-130/60%.

Contractor Submittals

The following 97 submittals were received from the Construction Contractors during this period. 80 packages were processed (approved, approved as noted, rejected) and returned to the Contractors within the required 30 days as shown per contract.

<u>Contracts</u>	<u>No. of Submittals Received During September</u>	<u>Submittals Processed During September</u>
A-121	14	12
A-141	16	10
A-145/A-145A	43	30
A-146	9	7
A-161	1	2
A-171	7	11
A-175	<u>7</u>	<u>8</u>
Total	97	80



**LOS ANGELES METRO RAIL
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**DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD
8-29-87 TO 9-25-87**

DATE OF ISSUE 8-29-87

ISSUE # 38

Contract #	Description	Fig Type	Review Code	Schedule Receipt	Schedule Received	Schedule Complete	Actual Complete	SC	Remarks
A-130	YARD LEADS REALIGNMENT	DWG	PF60	08-17-87	08-18-87	09-08-87	09-08-87		
A-130	YARD LEADS REALIGNMENT	SPC	PF60	08-17-87	08-18-87	09-08-87	09-08-87		
**									
A-795	UNINTERRUPTIBLE POWER SUPPLY	SPC	DC100	09-23-87	09-23-87	10-16-87			
**									

3 records listed. 3 values listed.

Review Codes : L60 - Less than 60% 1F60 - 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 9-28-87, MRTD Design Review Schedule
 2) Items completed in AWPI and AWPII are no longer included in the current report.

SECTION V
COST PERFORMANCE

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PERIOD SEPTEMBER 1987

V. COST PERFORMANCE

FOURTH ANNUAL WORK PLAN

Total incurred costs (Page 14) for CM Direct Services (without General Condition Items) for the period were under the plan of \$880K by \$36K. This variance results from the net effect of Other Direct Costs (ODCs) being over the plan by \$56K and Labor expenditures (total PDCD and subcontractors) being under the plan by \$92K.

The September CPR forecasts (Page 20) an estimate at completion of \$13,732K versus a Fourth Annual Work Plan of \$13,774K, for a projected underplan expenditure of \$42K including General Condition Items. Extracting the General Condition Items and reporting them separately, the September CPR forecasts a CM Direct Services estimate at completion of \$13,094K versus a plan of \$13,294K for an underplan expenditure of \$200K.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) were over the plan of \$10K for the period by \$30K. This report forecasts an estimate at completion for GCI's of \$639K versus a September plan of \$480K, for a projected overplan expenditure of \$159K.

During the period a letter was transmitted to RTD requesting that the budget for General Condition Items be increased to \$1,000,000 based on both current and projected levels of activity.

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$43.36/hr. compared to a plan rate of \$43.60, resulting in a difference of \$0.24 per hour.

The labor cost variance for the period resulted from variances to the plan in staffing, rate variance, average labor rate, and manhours expended, as follows:

<u>STAFFING VARIANCE</u> (From Section II)	<u>IMPACT ON SEPTEMBER COSTS</u>
13.3 equivalent staff under plan @ 152 hours at \$43.60/hour =	\$(88,200)



LOS ANGELES METRO RAIL
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RATE VARIANCE

107.91 actual staff equivalent @ 152 hours
@ \$0.24/hour =

(3,900)

SEPTEMBER COST VARIANCE TO PLAN

\$(92,100)

MANHOUR EXPENDITURE

The hours expended for the period were 16,402 versus a plan of 18,424. The (2,022) manhours variance for the period is calculated as follows:

13.3 equivalent staff under plan @152
hours/period in plan =

(2,022) hours

SEPTEMBER MANHOUR VARIANCE TO PLAN

(2,022) hours

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were over the plan for the period by a net of \$56K due to the following:

1. Office Expenses - higher than planned expenses for outside reproduction.
2. Computer Operation Support - overexpenditure due to higher than planned use of computers.
3. Vehicle and Maintenance - overexpenditure due to higher than planned annual insurance premiums
4. Office Space - underexpenditure due to escalation which did not materialize.
5. Relocation and Travel - overexpenditure due to sooner than planned relocation charges.
6. Field Equipment - overexpenditure of \$32,000 due to the purchase of environmental monitoring equipment. This equipment was originally planned to be purchased during AWP-3. The items were not budgeted in AWP-4. However, procurement approval by the District was not received until late July, 1987, subsequent to the inception of AWP-4.



LOS ANGELES METRO RAIL

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PDCD

PERIOD SEPTEMBER 1987

CM COST PERFORMANCE - SEPTEMBER 1987 FOURTH ANNUAL WORK PLAN CONSTRUCTION

(\$000)

	PLANNED	ACTUAL	VARIANCE	%
PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH AUGUST	\$ 1031	\$ 808	\$ -203	-19.69%
CURRENT MONTH	520	419	-101	-19.42%
CUMULATIVE THROUGH SEPTEMBER	\$ 1551	\$ 1247	\$ -304	-19.60%
TRAVEL AND ODC S				
CUMULATIVE THROUGH AUGUST	\$ 144	\$ 141	\$ -3	-2.08%
CURRENT MONTH	76	132	56	73.68%
CUMULATIVE THROUGH SEPTEMBER	\$ 220	\$ 273	\$ 53	24.09%
SUBCONTRACTORS				
CUMULATIVE THROUGH AUGUST	\$ 637	\$ 545	\$ -92	-14.44%
CURRENT MONTH	283	292	9	3.18%
CUMULATIVE THROUGH SEPTEMBER	\$ 920	\$ 837	\$ -83	-9.02%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH AUGUST	\$ 1812	\$ 1514	\$ -298	-16.45%
CURRENT MONTH	879	843	-36	-4.10%
CUMULATIVE THROUGH SEPTEMBER	\$ 2691	\$ 2357*	\$ -334	-12.41%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH AUGUST	\$ 118	\$ 200	\$ 82	69.49%
CURRENT MONTH	10	39	29	290.00%
CUMULATIVE THROUGH SEPTEMBER	\$ 128	\$ 239	\$ 111	86.72%
TOTAL CM SERVICES				
CUMULATIVE THROUGH AUGUST	\$ 1930	\$ 1714	\$ -216	-11.19%
CURRENT MONTH	889	883	-6	-0.67%
CUMULATIVE THROUGH SEPTEMBER	\$ 2819	\$ 2597*	\$ -222	-7.88%
HOURS				
CUMULATIVE THROUGH AUGUST	38,384 hrs	32,200 hrs	-6184 hrs	-16.11%
CURRENT MONTH	18,424	16,402	-2022	-10.97%
CUMULATIVE THROUGH SEPTEMBER	56,808 hrs	48,602 hrs	-8206 hrs	-14.45%

* DIFFERENTIAL OF 1 DUE TO ROUNDING

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD SEPTEMBER 1987

FOURTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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DESCRIPTION (MHS)			1987						1988						TOTALS
			JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	
MANHOURS BY FUNCTIONAL DEPARTMENT															
A Project Management and Secretarial	Plan	current	2,816	2,560	2,592	3,200	2,304	2,544	3,264	2,720	2,880	3,400	2,720	3,288	34,288
		cumulative	2,816	5,376	7,968	11,168	13,472	16,016	19,280	22,000	24,880	28,280	31,000	34,288	
	Actual	current	2,117	2,516	2,369	0	0	0	0	0	0	0	0	0	7,002
		cumulative	2,117	4,633	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002	
C Facilities Construction Management	Plan	current	5,280	5,120	5,320	9,200	6,912	7,450	9,984	8,480	8,480	10,800	9,120	10,488	96,634
		cumulative	5,280	10,400	15,720	24,920	31,832	39,282	49,266	57,746	66,226	77,026	86,146	96,634	
	Actual	current	4,672	5,119	5,519	0	0	0	0	0	0	0	0	0	15,310
		cumulative	4,672	9,791	15,310	15,310	15,310	15,310	15,310	15,310	15,310	15,310	15,310	15,310	
E Systemwide Construction Management	Plan	current	0	160	152	600	432	596	960	960	960	1,400	1,120	1,288	8,628
		cumulative	0	160	312	912	1,344	1,940	2,900	3,860	4,820	6,220	7,340	8,628	
	Actual	current	0	59	254	0	0	0	0	0	0	0	0	0	313
		cumulative	0	59	313	313	313	313	313	313	313	313	313	313	
F General Services	Plan	current	1,760	1,600	1,520	2,000	1,440	1,490	2,496	2,080	2,080	2,600	2,080	2,392	23,538
		cumulative	1,760	3,360	4,880	6,880	8,320	9,810	12,306	14,386	16,466	19,066	21,146	23,538	
	Actual	current	1,372	1,545	1,366	0	0	0	0	0	0	0	0	0	4,283
		cumulative	1,372	2,917	4,283	4,283	4,283	4,283	4,283	4,283	4,283	4,283	4,283	4,283	
K Project Controls	Plan	current	3,696	3,360	3,192	4,200	3,024	3,129	4,032	3,360	3,360	4,200	3,360	3,864	42,777
		cumulative	3,696	7,056	10,248	14,448	17,472	20,601	24,633	27,993	31,353	35,553	38,913	42,777	
	Actual	current	2,945	3,114	2,698	0	0	0	0	0	0	0	0	0	8,757
		cumulative	2,945	6,059	8,757	8,757	8,757	8,757	8,757	8,757	8,757	8,757	8,757	8,757	
L Contracts/Procurement	Plan	current	528	480	456	600	432	447	576	480	480	600	480	552	6,111
		cumulative	528	1,008	1,464	2,064	2,496	2,943	3,519	3,999	4,479	5,079	5,559	6,111	
	Actual	current	454	434	390	0	0	0	0	0	0	0	0	0	1,278
		cumulative	454	888	1,278	1,278	1,278	1,278	1,278	1,278	1,278	1,278	1,278	1,278	
M Engineering Services/ Systems Integration	Plan	current	2,800	2,880	2,744	3,720	2,608	2,853	3,424	3,040	2,880	3,720	2,880	3,448	36,997
		cumulative	2,800	5,680	8,424	12,144	14,752	17,605	21,029	24,069	26,949	30,669	33,549	36,997	
	Actual	current	2,031	2,056	2,114	0	0	0	0	0	0	0	0	0	6,201
		cumulative	2,031	4,087	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	
N Community Relations	Plan	current	352	320	304	400	288	298	384	320	320	400	320	368	4,074
		cumulative	352	672	976	1,376	1,664	1,962	2,346	2,666	2,986	3,386	3,706	4,074	
	Actual	current	248	312	280	0	0	0	0	0	0	0	0	0	840
		cumulative	248	560	840	840	840	840	840	840	840	840	840	840	
P Safety and Security	Plan	current	352	320	304	400	288	298	376	320	320	400	320	368	5,130
		cumulative	352	672	976	1,376	1,664	1,962	2,338	2,666	2,986	3,386	3,706	4,074	5,130
	Actual	current	208	296	264	0	0	0	0	0	0	0	0	0	768
		cumulative	208	504	768	768	768	768	768	768	768	768	768	768	

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CONTRACT PERFORMANCE REPORT

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PERIOD SEPTEMBER 1987

FOURTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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DESCRIPTION (MHRS)			1987						1988						TOTALS
			JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	
Q Quality Assurance	Plan	current	352	320	304	400	288	298	384	320	320	400	320	368	4,074
		cumulative	352	672	976	1,376	1,664	1,962	2,346	2,666	2,986	3,386	3,706	4,074	
	Actual	current	253	292	250	0	0	0	0	0	0	0	0	0	795
		cumulative	253	545	795	795	795	795	795	795	795	795	795	795	
R Project Administration	Plan	current	880	800	760	1,000	720	745	960	800	960	1,000	800	920	10,345
		cumulative	880	1,680	2,440	3,440	4,160	4,905	5,865	6,665	7,625	8,625	9,425	10,345	
	Actual	current	744	704	574	0	0	0	0	0	0	0	0	0	2,022
		cumulative	744	1,448	2,022	2,022	2,022	2,022	2,022	2,022	2,022	2,022	2,022	2,022	
S ED Administration	Plan	current	528	480	456	600	432	447	576	480	480	600	480	552	6,111
		cumulative	528	1,008	1,464	2,064	2,496	2,943	3,519	3,999	4,479	5,079	5,559	6,111	
	Actual	current	144	300	288	0	0	0	0	0	0	0	0	0	732
		cumulative	144	444	732	732	732	732	732	732	732	732	732	732	
T Labor Relations	Plan	current	0	0	0	0	0	160	0	0	0	0	0	160	320
		cumulative	0	0	0	0	0	160	160	160	160	160	160	320	
	Actual	current	2	0	0	0	0	0	0	0	0	0	0	0	2
		cumulative	2	2	2	2	2	2	2	2	2	2	2	2	
U Legal Counsel	Plan	current	0	160	0	0	0	160	0	0	0	160	0	160	640
		cumulative	0	160	160	160	160	320	320	320	320	480	480	640	
	Actual	current	0	0	0	0	0	0	0	0	0	0	0	0	0
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	
Subtotal (HOURS)	Plan	current	19,344	18,560	18,104	26,320	19,168	20,915	27,616	23,520	23,680	29,880	24,160	28,400	279,667
		cumulative	19,344	37,904	56,008	82,328	101,496	122,411	150,927	173,547	197,227	227,107	251,267	279,667	
	Actual	current	15,190	16,747	16,366	0	0	0	0	0	0	0	0	0	48,303
		cumulative	15,190	31,937	48,303	48,303	48,303	48,303	48,303	48,303	48,303	48,303	48,303	48,303	



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1987

FOURTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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DESCRIPTION (MTRS)		1987											1988	TOTALS	
		JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE		
Other Direct Labor															
R. M. Parsons K Project Controls	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	0
	Actual	current	70	68	(80)	0	0	0	0	0	0	0	0	0	58
		cumulative	70	138	58	58	58	58	58	58	58	58	58	58	58
L Contracts/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	0
	Actual	current	0	0	29	0	0	0	0	0	0	0	0	0	29
		cumulative	0	0	29	29	29	29	29	29	29	29	29	29	29
M Engineering Services/ Systems Integration	Plan	current	0	0	160	160	160	160	160	160	160	160	160	160	1600
		cumulative	0	0	160	320	480	640	800	960	1,120	1,280	1,440	1,600	1600
	Actual	current	0	36	62	0	0	0	0	0	0	0	0	0	98
		cumulative	0	36	98	98	98	98	98	98	98	98	98	98	98
R Project 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	0
	Actual	current	0	18	65	0	0	0	0	0	0	0	0	0	83
		cumulative	0	18	83	83	83	83	83	83	83	83	83	83	83
DeLew, Cather															
F General Services	Plan	current	0	0	0	160	0	0	0	160	0	0	0	160	480
		cumulative	0	0	0	160	160	160	160	320	320	320	320	480	480
	Actual	current	0	0	0	0	0	0	0	0	0	0	0	0	0
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	0
M Engineering Services/ Systems Integration	Plan	current	160	320	160	320	160	320	160	320	160	320	160	320	2880
		cumulative	160	480	640	960	1,120	1,440	1,600	1,920	2,080	2,400	2,560	2,880	2880
	Actual	current	72	(2)	(40)	0	0	0	0	0	0	0	0	0	30
		cumulative	72	70	30	30	30	30	30	30	30	30	30	30	30
Subtotal	Plan	current	160	320	320	640	320	480	320	640	320	480	320	640	4,960
		cumulative	160	480	800	1,440	1,760	2,240	2,560	3,200	3,520	4,000	4,320	4,960	4,960
	Actual	current	142	120	36	0	0	0	0	0	0	0	0	0	298
		cumulative	142	262	298	298	298	298	298	298	298	298	298	298	298
TOTAL DIRECT LABOR HOURS	Plan	current	19,504	18,880	18,424	26,960	19,488	21,395	27,936	24,160	24,000	30,360	24,480	29,040	284,627
		cumulative	19,504	38,384	56,808	83,768	103,256	124,651	152,587	176,747	200,747	231,107	255,587	284,627	284,627
	Actual	current	15,332	16,868	16,402	0	0	0	0	0	0	0	0	0	48,602
		cumulative	15,332	32,200	48,602	48,602	48,602	48,602	48,602	48,602	48,602	48,602	48,602	48,602	48,602

Parsons-Dillingham-DeLew, Cather



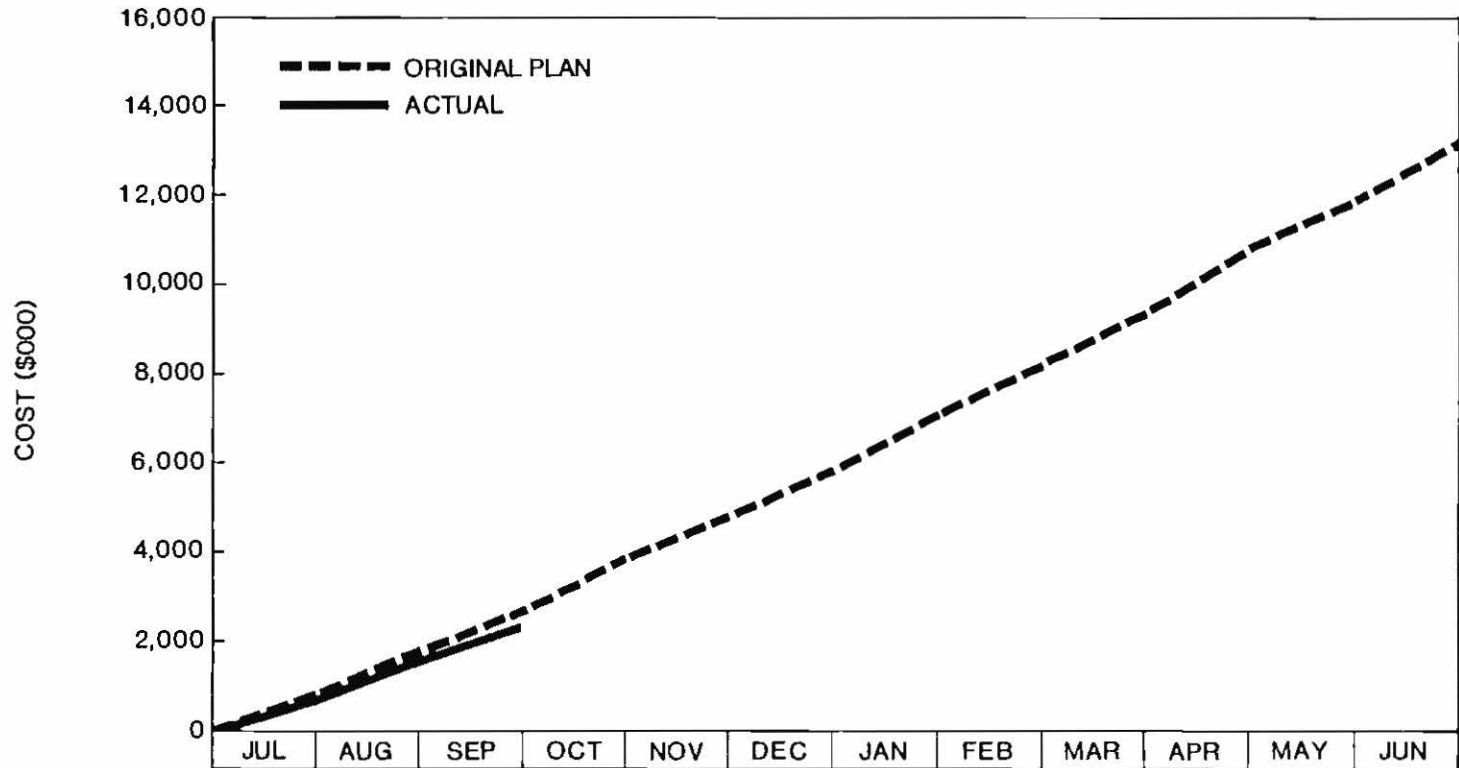
LOS ANGELES METRO RAIL

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD SEPTEMBER 1987

FOURTH ANNUAL WORK PLAN



	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
	1987						1988					
PLAN	907	1,812	2,692	3,914	4,836	5,868	7,148	8,281	9,410	10,810	11,948	13,294 *
ACTUAL	736	1,514	2,358									
VARIANCE	(170)	(298)	(334)									
FORECAST	ETC	12,479	11,626	10,736								
	EAC	13,215	13,141	13,094								

* GENERAL CONDITION ITEMS HAVE BEEN EXTRACTED INCLUDING CONSTRUCTION PHOTO AND TESTING PROGRAM FROM THE ODC's. GC's ARE BEING REPORTED SEPARATELY.

CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE

Parsons-Dillingham-De Leuw, Cather



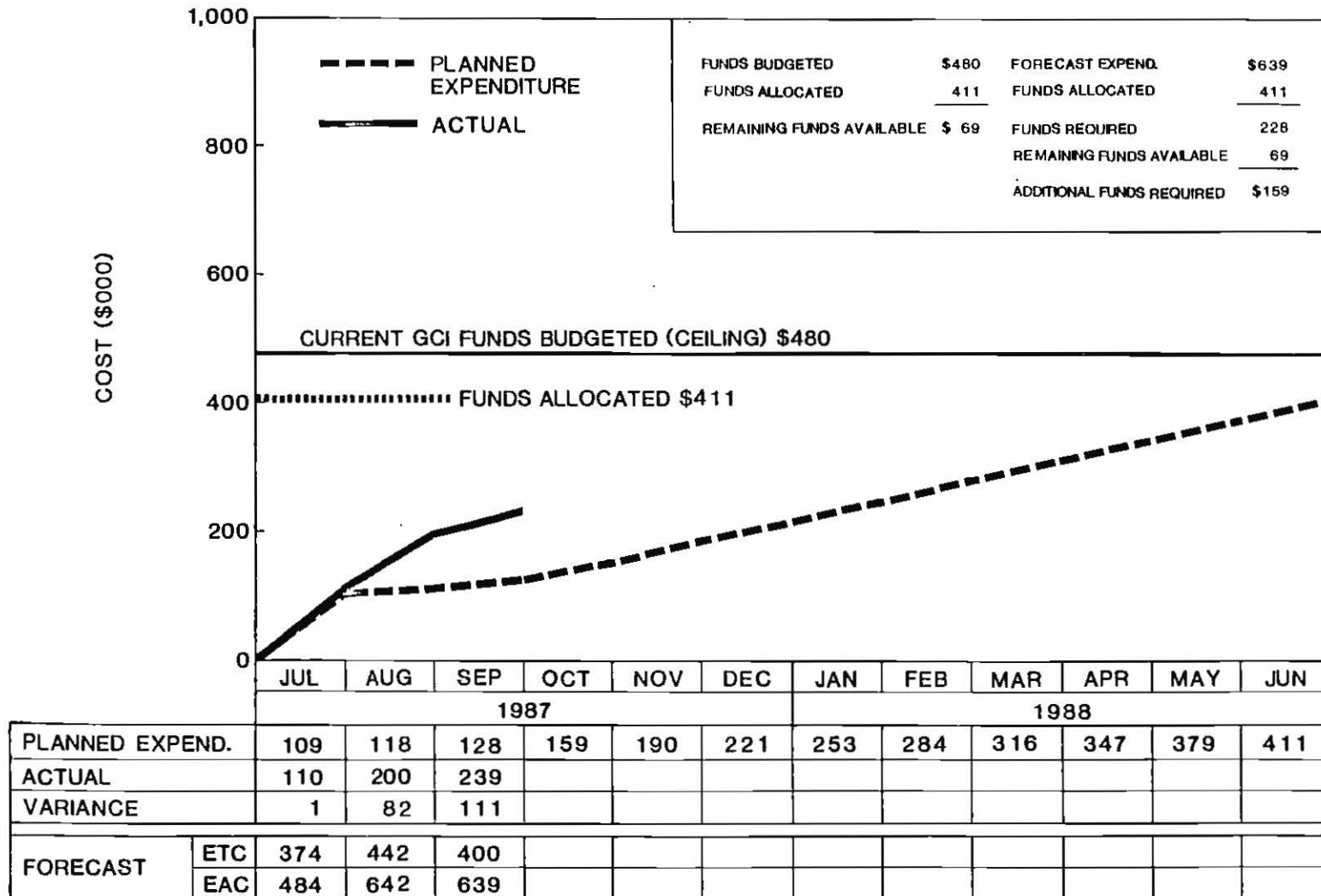
LOS ANGELES METRO RAIL

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CONTRACT PERFORMANCE REPORT

FOURTH ANNUAL WORK PLAN

PERIOD SEPTEMBER 1987



GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD SEPTEMBER 1987

PDCD CM SERVICES - 4TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING SEP 25, 1987 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS			ESTIMATE TO COMPL	AT COMPLETION DOLLARS		
	BUDGET	ACTUAL	VAR.	BUDGET	ACTUAL	VARIANCE		BUDGET	ESTIMATE	VARIANCE
A PROJECT MANAGEMENT	84,234	64,452	-19,782	238,384	178,817	-59,567	780,342	1,012,205	959,159	-53,046
C ZONE CONSTRUCTION	205,506	198,065	-7,441	604,964	555,547	-49,417	3,027,902	3,746,429	3,583,449	-162,980
E SYSTEMWIDE CONST	8,573	14,418	5,845	17,597	18,182	585	478,604	362,340	496,786	134,446
F GENERAL SERVICES	61,793	64,023	2,230	198,387	199,189	802	861,442	1,007,829	1,060,631	52,802
K PROJECT CONTROLS	141,203	119,522	-21,681	453,337	393,944	-59,393	1,450,453	1,892,312	1,844,397	-47,915
L PROCUREMENT	19,252	17,821	-1,431	61,810	55,712	-6,098	198,148	258,006	253,860	-4,146
M ENG. SVCS./SYST. INTEGR.	131,358	101,151	-30,207	400,708	287,151	-113,557	1,431,136	1,805,777	1,718,287	-87,490
N COMMUNITY RELATIONS	11,687	10,596	-1,091	37,522	31,622	-5,900	119,103	156,625	150,725	-5,900
P SAFETY	13,786	11,700	-2,086	44,262	33,766	-10,496	179,133	223,395	212,899	-10,496
Q QUALITY ASSURANCE	15,746	12,059	-3,687	50,552	39,007	-11,545	160,461	211,013	199,468	-11,545
R PROJECT ADMIN.	27,965	22,318	-5,647	89,782	75,255	-14,527	296,890	384,767	372,145	-12,622
S EQUAL OPPORTUNITY	20,108	13,671	-6,437	64,558	33,965	-30,593	204,917	269,475	238,882	-30,593
T LABOR RELATIONS	0	0	0	0	98	98	15,648	15,648	15,746	98
U LEGAL	0	0	0	20,000	0	-20,000	60,000	80,000	60,000	-20,000
S/T LABOR-BRDN & OH	741,211	649,796	-91,415	2,281,863	1,902,255	-379,608	9,264,179	11,425,821	11,166,434	-259,387
1 OFFICE SPACE	37,967	29,698	-8,269	113,901	94,763	-19,138	361,699	455,600	456,462	862
2 FURN. & EQUIPMENT	9,151	10,423	1,272	23,267	20,423	-2,844	48,033	71,300	68,456	-2,844
3 RELOC. & TRAVEL EXP.	1,250	9,730	8,480	3,750	16,836	13,086	98,250	115,000	115,086	86
4 VEHICLE & MAINTEN.	6,202	7,844	1,642	16,834	12,699	-4,135	78,266	88,600	90,965	2,365
5 OFFICE EXPENSES	5,488	21,172	15,684	14,896	46,943	32,047	63,504	78,400	110,447	32,047
7 TELEPHONE/TELEX	4,466	5,029	563	12,122	13,057	935	51,678	63,800	64,735	935
8 COMPUTER OPER. SUPPORT	2,666	6,511	3,845	8,998	9,011	13	24,002	33,000	33,013	13
9 GROSS RECEIPT TAX	4,829	5,277	448	14,768	14,800	32	58,871	73,639	73,671	32
Z FIELD EQUIPMENT	4,130	36,533	32,403	11,210	44,487	33,277	47,790	59,000	92,277	33,277
S/T ODC'S	76,149	132,217	56,068	219,746	273,019	53,273	832,093	1,038,339	1,105,112	66,773
W PDCD FEE	40,000	40,000	0	120,000	120,000	0	350,000	470,000	470,000	0
X S/C FEE	22,105	21,386	-719	70,305	62,646	-7,659	289,473	359,778	352,119	-7,659
S/T FEES	62,105	61,386	-719	190,305	182,646	-7,659	639,473	829,778	822,119	-7,659
S/T CM DIRECT SVCS	879,465	843,399	-36,066	2,691,914	2,357,920	-333,994	10,735,745	13,293,938	13,093,665	-200,273
S/T GEN. COND. ITEMS*	9,602	39,266	29,664	127,945	238,960	111,015	399,654	480,000	638,614	158,614
TOTAL CM SERVICES	889,067	882,665	-6,402	2,819,859	2,596,880	-222,979	11,135,399	13,773,938	13,732,279	-41,659

PERCENT OF BUDGET EXPENDED = 19%

NEGATIVE VARIANCE INDICATES UNDERRUN

* GENERAL CONDITION ITEMS WHICH WERE SEPARATELY LISTED IN THE ESTIMATED COST FOR AWP-4 AS ODC'S

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1987

**PDCD CM SERVICES - 4TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING SEP 25, 1987
REPORT SUMMARIZED BY RESPONSIBILITY
CONSTRUCTION
GENERAL CONDITION ITEMS**

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS			ESTIMATE TO COMPL	AT COMPLETION DOLLARS		
	BUDGET	ACTUAL	VAR.	BUDGET	ACTUAL	VARIANCE		BUDGET	ESTIMATE	VARIANCE
O CONST PHOTO (S/C)*	2,870	2,506	-364	7,790	4,506	-3,284	36,130	41,000	40,636	-364
A RODENT & PEST CONTROL	0	0	0	0	0	0	22,500	0	22,500	22,500
B GUARD SERVICES	6,732	5,760	-972	20,196	17,760	-2,436	63,024	80,784	80,784	0
C WATER LEAK SURVEY	0	0	0	0	0	0	40,000	0	40,000	40,000
J DEWATERING DESIGN	0	25,000	25,000	98,265	205,000	106,735	59,000	98,265	264,000	165,735
V CONDUIT BENDS	0	0	0	1,694	1,694	0	0	1,694	1,694	0
Y TESTING PROGRAM (S/C)*	0	6,000	6,000	0	10,000	10,000	179,000	189,000	189,000	0
S/T ALLOCATED	9,602	39,266	29,664	127,945	238,960	111,015	399,654	410,743	638,614	227,871
Z UNALLOCATED	0	0	0	0	0	0	0	69,257	0	-69,257
S/T GEN. COND. ITEMS	9,602	39,266	29,664	127,945	238,960	111,015	399,654	480,000	638,614	158,614

* GENERAL CONDITION ITEMS WHICH WERE SEPARATELY LISTED IN THE ESTIMATED COST FOR AWP-4 AS DDC's

SECTION VI
ADDITIONAL ACTIVITIES
PERFORMED IN SEPTEMBER

MTA LIB



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD SEPTEMBER 1987

VI. ADDITIONAL ACTIVITIES PERFORMED IN SEPTEMBER

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 to coordinate the ongoing RTD audit of PDCD and its Associate Subcontractors' financial operations for calendar/fiscal year 1986, as applicable.
- (3) Continued processing of personnel (acquisition and termination).

B. Quality Assurance

- (1) Completed and issued Audit Report for Contract A-141 PDCD field office operations.
- (2) Started audit of Contract A-161 PDCD field office operations.
- (3) Reviewed submittals for Quality Assurance Certificates of Compliance and Field Testing activities.
- (4) Prepared welding requirements matrix for contracts in progress.
- (5) Finalized ACI Technician Certification Training Course Schedule and Participation List.
- (6) Finalized Inspection and Test Plan for contracts in progress.

C. Equal Opportunity Administration

- (1) Conducted contract compliance site visits and employee interviews for Contract Nos. A-121, A-141, A-146, A-161 and A-171.
- (2) Assisted in bid evaluations for Contract No. A-620.

D. Contracts and Procurement

- (1) Continued support activities for equipment to be purchased by the A-141 contractor for the water treatment plant.
- (2) Assisted RTD in evaluation of bids for Contract A-112, Main Shop Building by obtaining supplemental information on low bidder.



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- (3) Initiated commercial and technical evaluation of proposals for Water Leak Survey and Rodent and Pest Control Services subcontracts.
- (4) Submitted, for RTD approval, Amendment No. 1 to Subcontract with Kennedy/Jenks/Chilton for completion of design engineering of Water Treatment Plant.
- (5) Submitted for RTD approval all remaining amendments to PDCD Associate Subcontracts and Consultant Agreements for Fourth Annual Work Plan requirements.
- (6) Submitted request for approval to RTD for purchase of additional office copier for PDCD central office.
- (7) Issued Amendment to Associate Subcontractor for AWP-4 requirements as approved by RTD.

E. Community Relations

- (1) Coordinated community notifications for A-145 traffic detours/street closures; parking restrictions on Lindley Place for A-146; water line incident at A-161; and pending closures for A-141.
- (2) Conducted coordination and resolution of traffic concerns for tenants along Hill and Broadway Streets affected by A-141 and A-145 traffic access plans, and construction access problems for Systems Parking Lot, A-145.
- (3) Briefed Traffic Enforcement Department representatives on construction activities and pending TCO requirements.

F. Safety and Security

- (1) Performed site safety, health and security surveillances and prepared written reports for the A-121, A-145, A-146, A-161, A-171 and A-175 construction projects.
- (2) At the A-146 site, a minor fire occurred in the Wilshire/Grand Bldg.
- (3) Coordinated activities of the Systemwide Security Guard Service.
- (4) Security was increased in the A-145 and a-171 sites due to substantial increase in violent crime.
- (5) Coordinated activities of the Certified Industrial Hygienist in the Occupational Health Field (asbestos, hydrocarbons) at the A-145 site.

G. Construction Operations

- (1) Continued to provide construction management services for Contracts A-121, A-141, A-145, A-146, A-161, A-171 and A-175.
- (2) Continued to monitor utilities relocation work in association with construction activities.
- (3) Reviewed submittals for utility, traffic and environmental controls requirements.



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- (4) Continued site layout preparation, technical coordination, and review for A-141 groundwater treatment facilities.
- (5) Conducted water quality review and monitoring.
- (6) Monitored soil contamination in A-141 and A-146.
- (7) Conducted asbestos investigations at A-145 and A-146 and prepared findings and instructions for removal.

H. Engineering Services

- (1) Reviewed and submitted comments on draft addendum for Contract A-135 Union Station and Contract A-610/A-115 Trackwork and Yard Area bid documents.
- (2) Started spot checking and logging geology of A-145 soldier pile holes.
- (3) Reviewed Contractor's claim for an extra due to striking hard cemented sandstone layers in the soldier pile holes penetrating the soft bedrock of Civic Center Station.
- (4) Reviewed A-146 Contractor's compaction grouting designs for two Type II structures.
- (5) For Contract A-121 - Reviewed and approved Contractor's submittals for acoustical materials, HVAC data, ventilation fans, and miscellaneous metals for toilet areas. Approved as noted submittals for toilet partitions, concrete, mixes, highbay mounting details, and handrails. Rejected submittals for ceramic tiles and cabinet details.
- (6) For Contract A-141 - Reviewed and approved Certificate of Compliance for VCP pipe. Approved as noted submittals for excavation support system soldier beam designs, excavation support procedures, and temporary decking. Rejected a submittal for manholes.
- (7) For Contract A-145 - Reviewed and approved submittals for temporary decking (partial), electrical materials, non-shrink grout tests, welder qualifications, and Certificate of Compliance for lumber. Approved as noted submittals for temporary decking (partial), concrete formwork for vaults, rebar list for vault work, closure wall lift drawings for vault work, and electrical equipment. Rejected submittals for temporary decking details, and plumbing material.
- (8) For Contract A-146 - Reviewed and approved Contractor's submittals for geotechnical instrumentation, adit support design, pre-cast concrete segments, and tunnel instrumentation. Approved as noted submittals for gas detection instrumentation and deletion of tape extensometers.
- (9) For Contract A-171 - Reviewed and approved Contractor's submittals for geotechnical instrumentation and shaft access bridge. Approved as noted submittals for excavation support, gas detection instrumentation, deletion of tape extensometers, and tieback procedures.
- (10) For Contract A-175 - Reviewed and approved Contractor's submittals for geotechnical instrumentation, and Certificates of Compliance for VCP pipe. Approved as noted a submittal for lagging at bedrock.
- (11) Started mapping geology exposed in the Wilshire/Grand building underpinning pits excavation in Contract A-146.

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I. Project Controls

- (1) Reviewed A-141 Contractor Part II Schedule resubmittal.
- (2) Reviewed A-175 Contractor Part I Schedule submittal.
- (3) Processed Change Orders for A-121 (CO-001, CO-002 and CO-005), A-141 (CO-004, CO-008 and CO-009), A-145 (CO-003) and A-161 (CO-005, CO-006 and CO-007).
- (4) Processed Change Requests A-121 (CR016), A-141 (CR018), A-145 (CR015, CR016), A-161 (CR025), and A-175 (CR003).
- (5) Calculated Liquidated Damage Values associated with 45 Day Window Report.
- (6) Submitted claims logs for A-121, A-141, A-145, A-146, A-161, A-165 and A-175.
- (7) Reevaluated estimates on A-145, CR004 and CR009.
- (8) Prepared evaluation of RTD's estimate on A-121, CR008 and CR010.
- (9) Continued A-141, CR-000 and CR-001 estimate analysis.
- (10) Prepared preliminary estimate on A-171 CR-001.
- (11) Prepared Construction Study of Sunset Blvd., Aerial, Cut & Cover and Tunnel to support RTD environmental hearings.
- (12) Summarized A-145 Part II Schedule submittal and impact to the MOS-1 Level III Construction Schedule.
- (13) Revised approach for budgeting, reporting and controlling General Condition Items associated with 4th AWP.
- (14) Prepared input for Rev. 5D Schedule and conducted a schedule analysis.
- (15) Revised the "Construction Cost Performance and Construction Progress Curves" based on Financial Plan - Rev. 5C dated 8/13/87.

J. CM Meetings in September 1987

<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
September 1	RTD/TSG	Negotiation of 141-CO-008
September 1	RTD	A-135 Pre-bid Dry-run
September 1,8,15,22	RTD, MRTC	Project Status Review
September 2	RTD	Review A-141 Schedule Status with TSD/AGM
September 2, 16	RTD	Program Controls

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<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
September 2	RTD, BAH, MRTC, LAFD, LACo FD	F/LS, F/L Security
September 2, 23	RTD, DIA, Argonaut, LAFD Contractors	Project Safety
September 4	RTD	A-171 Claims
September 8, 22	RTD	CM Progress Review
September 8, 22	RTD, MRTC	Train Control Coordination
September 9	RTD	A-135 Pre-bid
September 12	RTD	Traffic Mitigation
September 11	RTD	LGCA Staff Meeting
September 11	RTD/MRTC	A-141 Groundwater Treatment Facilities
September 14	Smith-Emery	Improving Turnaround of Hazardous Waste Test Report
September 14	Tutor-Saliba/Groves	WBE Subcontractor Substitution
September 14	RTD	Level III Schedule Review
September 16	RTD, LA Bureau of Engineering	Review of Excavation Support Systems
September 16	Shank-Ohbayashi	Magnetometer Surveys in Tunnels
September 17	RTD	Traffic Mitigation with LADOT/Mayor's Office
September 17	RTD, MRTC	Communications Coordination
September 17	RTD, MRTC	Contract A-130 60% Design Review
September 17	RTD/TSG	A-141 Negotiation U.G. Utilities
September 17	RTD	A-171 CO #001
September 17	Smith-Emery	Batch Plant Inspection Requirements
September 17	RTD	Anti/Skid Test for Temporary Decking
September 18	MRTC	Contract A-145 Vault Work Coordination
September 21	RTD/Dalton	Negotiation of 161-CO-008
September 22	RTD	Logistics Study
September 22	Atkinson	Contract A-145 Excavation Support Design
September 23	LADOT/RTD	A-141, A-145 Traffic
September 23	RTD/LADOT/Mayor's Office	Tenants/Traffic Mitigation
September 23	RTD	Systems Parking/Construction Access
September 24	RTD	A-165 Schedule

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<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
September 24	RTD/MRTC	Systems Interface Documentation
September 24	RTD, MRTC	Contract A-130 High Pressure Gas Line Support
September 25	RTD	Sunset Construction

SECTION VII

**SUMMARY OF ACTIVITIES
PLANNED FOR OCTOBER**



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VII. SUMMARY OF ACTIVITIES PLANNED FOR OCTOBER

A. Administration and Accounting

- (1) Continue to provide priority assistance to construction field operations.
- (2) Continue to coordinate and accommodate the RTD audit of PDCD and its Associate Subcontractors' financial operations for calendar/fiscal year 1986 as applicable.
- (3) Coordinate and organize PDCD's JVEB Meeting No. 10 scheduled for October 23.

B. Quality Assurance

- (1) Complete and issue Audit Report for PDCD's field office operations, Contract A-161.
- (2) Conduct audit of PDCD's field office operations at A-121 and A-146.
- (3) Monitor ACI Concrete Technician Certification Course.
- (4) Continue to support Safety Certification, RE Field Test and Inspection activities, (Welding, Concrete, Tie-Back and Excavation Support), and review of Contractor Submittals.
- (5) Continue review to ensure Safety Certification Documentation is being submitted and properly filed.

C. Equal Opportunity Administration

- (1) Conduct contract compliance site reviews and employee interviews for Contracts A-121, A-141, A-145, A-146, A-161, A-171 and A-175.
- (2) Attend Progress Review Meetings for all construction contracts.
- (3) Attend Initial Construction Meeting for Contract No. A-112.

D. Contracts and Procurement

- (1) Complete evaluation of proposal for Water Leak Survey and Rodent and Pest Control Services and submit recommendation for award to RTD. Upon RTD approval, award subcontract.
- (2) Transmit to RTD for approval an Amendment to increase scope, extend period of performance and fund subcontract for Laboratory and Field Testing Services for AWP-4.
- (3) Continue to support procurement of equipment for A-141 Water Treatment Plant.
- (4) Participate as member of Bid Evaluation team for assisting RTD in evaluating bids for Automatic Train Control, Contract A-620.
- (5) Award purchase order for office copier for PDCD central office.
- (6) Execute Amendment No. 1 to Kennedy/Jenks/Chilton subcontract for design engineering services.

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E. Community Relations

- (1) Coordinate tenant notifications including traffic access for A-141 and A-145, and instrumentation drilling activities for A-171.
- (2) Continue implementing CR Work Plan; conduct community presentations; the dissemination of construction information; and responding to community complaints and inquiries.

F. Safety and Security

- (1) Continue to monitor safety, health and security activities on all active construction sites.
- (2) Review Contractor Safety and Security Plans for A-112 and A-165.
- (3) Provide Emergency Response Plan and first-aid training to personnel at the A-161 and A-171 sites.
- (4) Continue to monitor activities of the Security Guard Service.
- (5) Review Contractor candidates for Safety Representatives, Contracts A-112, A-165 & A-175.
- (6) Review and update the Emergency Response Plan as required.
- (7) Review the Construction Safety and Security Manual for possible revisions due to elimination of the Cal-OSHA Enforcement Group.

G. Construction Operations

- (1) Continue construction management services, monitoring of utilities relocations, and submittal reviews.
- (2) Complete technical review for A-141 water treatment equipment and finish draft operating manuals for facilities.
- (3) Coordinate preliminary grading and preparations for delivery/storage of water treatment equipment, and security for site.
- (4) Monitor asbestos remediation work in A-145.
- (5) Continue monitoring and testing for hydrocarbons in A-141, A-145 and A-146 excavations and geotechnical borings.
- (6) Install water quality monitoring instruments along the L.A. River and Ballona Creek.



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H. Engineering Services

- (1) Continue to process Contractors' submittals for Contracts A-112, A-121, A-141, A-145, A-146, A-161, A-171 and A-175.
- (2) Begin in-house training for construction inspectors to aid in the geologic mapping of mined tunnels.
- * (3) Complete Constructibility/Claims Avoidance Reviews of Contract A-795/100%.

I. Project Controls

- (1) Calculate liquidated damage values associated with 45 Day Window Report.
- (2) Complete change documents for A-165 Schedule Revision.
- (3) Finalize and issue Revision 5D of the Level III Construction Schedule.
- (4) Update A-175 Scope of Work Report based on Contractor Part I and II Narratives.
- (5) Summarize A-141 Part II Schedule Submittal and impact to the MOS-1 Level III Construction Schedule.

* See Page 31



**LOS ANGELES METRO RAIL
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**DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS
9-26-87 TO 10-30-87**

DATE OF ISSUE 9-26-87

ISSUE # 38

Contract #	Description	Plg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-795	UNINTERRUPTIBLE POWER SUPPLY	SPC	DC100	09-23-87	09-23-87	10-16-87			

**

One record listed. One value listed.

Review Codes :

LT60 - Less than 60%	IP60 - In progress 60%	FF85 - 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 9-28-87, MRTD Design Review Schedule
- 2) Items completed in AWPI and AWPII are no longer included in the current report.

SECTION VIII
SUBCONTRACTOR/CONSULTANT
STATUS



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CONTRACT PERFORMANCE REPORT

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VIII. SUBCONTRACTOR/CONSULTANT STATUS

The following 4th 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.

FOURTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT

SEPTEMBER 25, 1987

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. 9	06/05/87	04/30/87	06/09/87	06/26/87	06/16/87	06/16/87	06/18/87	07/06/87	\$304,629	07/06/87	FOURTH AWP
2-SC-3369-1	CONSTRUCTION CONTROL SERVICES CORP.											
	AMEND. NO. 10	06/05/87	04/30/87	06/15/87	06/26/87	06/17/87	06/18/87	06/22/87	07/07/87	\$1,231,486	07/08/87	FOURTH AWP
3-SC-3369-1	DAMES & MOORE											
	AMEND. NO. 9	06/05/87	04/30/87	06/18/87	06/26/87	06/18/87	06/19/87	06/21/87	08/20/87	\$152,800	08/21/87	FOURTH AWP
4-SC-3369-1	ENGINEERING-SCIENCE											
	AMEND. NO. 8	06/05/87	04/30/87	06/18/87	06/26/87	06/22/87	06/24/87	06/26/87	07/21/87	\$249,590	07/22/87	FOURTH AWP
5-SC-3369-1	HAYAKAWA ASSOCIATES											
	AMEND. NO. 9	06/05/87	04/30/87	06/19/87	06/26/87	06/22/87	06/22/87	06/26/87	07/21/87	\$130,090	07/22/87	FOURTH AWP
6-SC-3369-1	JACOBS ASSOCIATES											
	AMEND. NO. 12	06/05/87	04/30/87	06/22/87	06/26/87	06/22/87	06/24/87	06/26/87	07/21/87	\$969,394	07/22/87	FOURTH AWP
7-SC-3369-1	JENKINS, GALES & MARTINEZ, INC.											
	AMEND. NO. 11	06/05/87	04/30/87	06/19/87	06/16/87	06/23/87	06/24/87	06/26/87	07/21/87	\$398,120	07/22/87	FOURTH AWP



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FOURTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

SEPTEMBER 25, 1987

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUISITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
8-SC-3369-1	MARTIN & HUANG INTERNATIONAL											
	AMEND. NO. 9	06/05/87	04/30/87	06/19/87	06/15/87	06/22/87	06/22/87	06/24/87	06/15/87	\$261,695	07/16/87	FOURTH AMP
9-SC-3369-1	NORTH PACIFIC CONSTRUCTION MANAGEMENT											
	AMEND. NO. 12	06/05/87	04/30/87	06/15/87	06/15/87	06/22/87	06/22/87	06/26/87	06/21/87	\$408,742	07/22/87	FOURTH AMP
10-SC-3369-1	OCHOA & SILLAS											
	AMEND. NO. 6	06/05/87	04/30/87	07/30/87	N/A	08/12/87	08/18/87	09/08/87	09/23/87	\$69,100	09/24/87	FOURTH AMP
11-SC-3369-1	RANDOLPH & TATE ASSOCIATES											
	AMEND. NO. 6	06/05/87	04/30/87	06/15/87	N/A	08/04/87	08/17/87	09/08/87		\$10,000		FOURTH AMP
12-SC-3369-1	VANIR CONSTRUCTION MANAGEMENT, INC.											
	AMEND. NO. 10	06/05/87	07/02/87	07/27/87	*	08/14/87	08/24/87	09/23/87		\$179,391		FOURTH AMP; * IN PROCESS
13-SC-3369-1	AL. A. MATHEWS											
	AMEND. NO. 5	06/05/87	04/30/87	06/15/87	N/A	06/30/87	07/17/87	08/03/87	08/20/87	\$20,000	08/21/87	FOURTH AMP
14-SC-3369-1	RONALD HEUER, Ph.D											
	AMEND. NO. 4	06/05/87	04/30/87	06/15/87	N/A	06/30/87	07/15/87	09/25/87		\$12,000		FOURTH AMP
15-SC-3369-1	JAMES GOULD, Ph.D											
	AMEND. NO. 5	06/05/87	04/30/87	06/15/87	N/A	06/30/87	07/20/87	09/25/87				FOURTH AMP
16-SC-3369-1	M. ALEXANDER											
	AMEND. NO. 5	06/05/87	04/30/87	06/18/87	N/A	06/30/87	07/17/87	09/25/87				FOURTH AMP



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FOURTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

SEPTEMBER 25, 1987

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUISITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
18-SC-3369-1	GEO GRAY/ PHOTOGRAPHY											
	----- AMEND. NO. 2	06/20/87	N/A	N/A	N/A	08/25/87	08/25/87	07/14/87	08/11/87	\$36,000	08/25/87	FOURTH AWP
19-SC-3369-1	WORK CENTER, INC.											
	----- AMEND. NO. 3	06/15/87	N/A	N/A	N/A	08/14/87	08/21/87	06/30/87	08/12/87	\$40,000	08/21/87	FOURTH AWP
20-SC-3369-1	GARY L. BARTON CORP.											
	----- COMPLETED											
21-SC-3369-1	SMITH EMERY CO.											
	----- AMEND. NO. 1	06/19/87	06/30/87									FOURTH AWP
22-SC-3369-1	COLEMAN SECURITY SERVICES INC.											
	----- AMEND. NO. 1	06/17/87	N/A	N/A	N/A	07/27/87	07/27/87	07/02/87	07/21/87	\$80,784	07/21/87	FOURTH AWP
24-SC-3369-1	KENNEDY/JENKS/CHILTON	07/21/87	06/28/87	07/16/87	N/A	07/17/87	07/20/87	07/21/87	08/13/87	\$98,265	07/23/87	
	----- AMEND. NO. 1		N/A	09/02/87	*	09/24/87		09/18/87		\$164,979		* IN PROCESS
26-SC-3369-1	(WATER LEAK SURVEY)	07/24/87	08/21/87		N/A							
27-SC-3369-1	(RODENT & PEST CONTROL)		08/24/87		N/A							

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