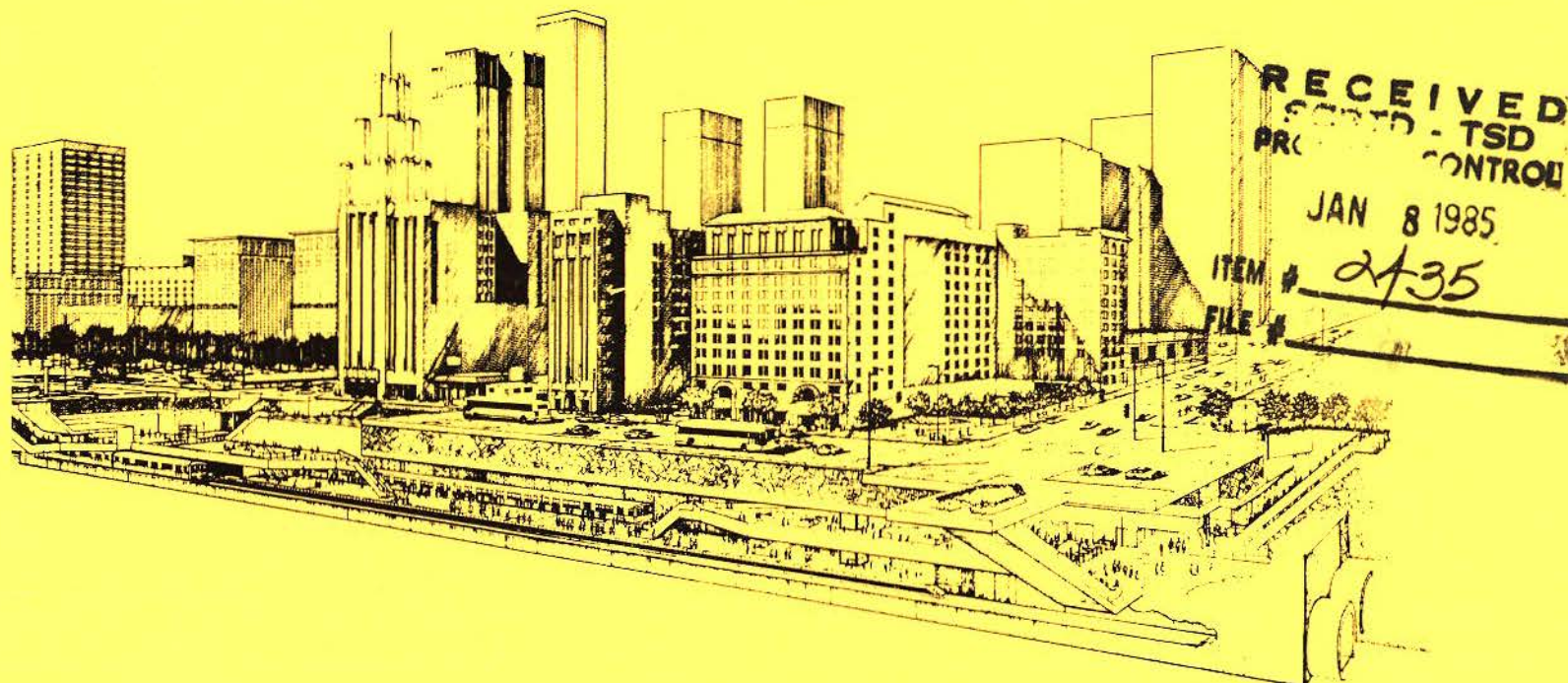


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LOS ANGELES **METRO RAIL** PROJECT MONTHLY CONTRACT PERFORMANCE REPORT



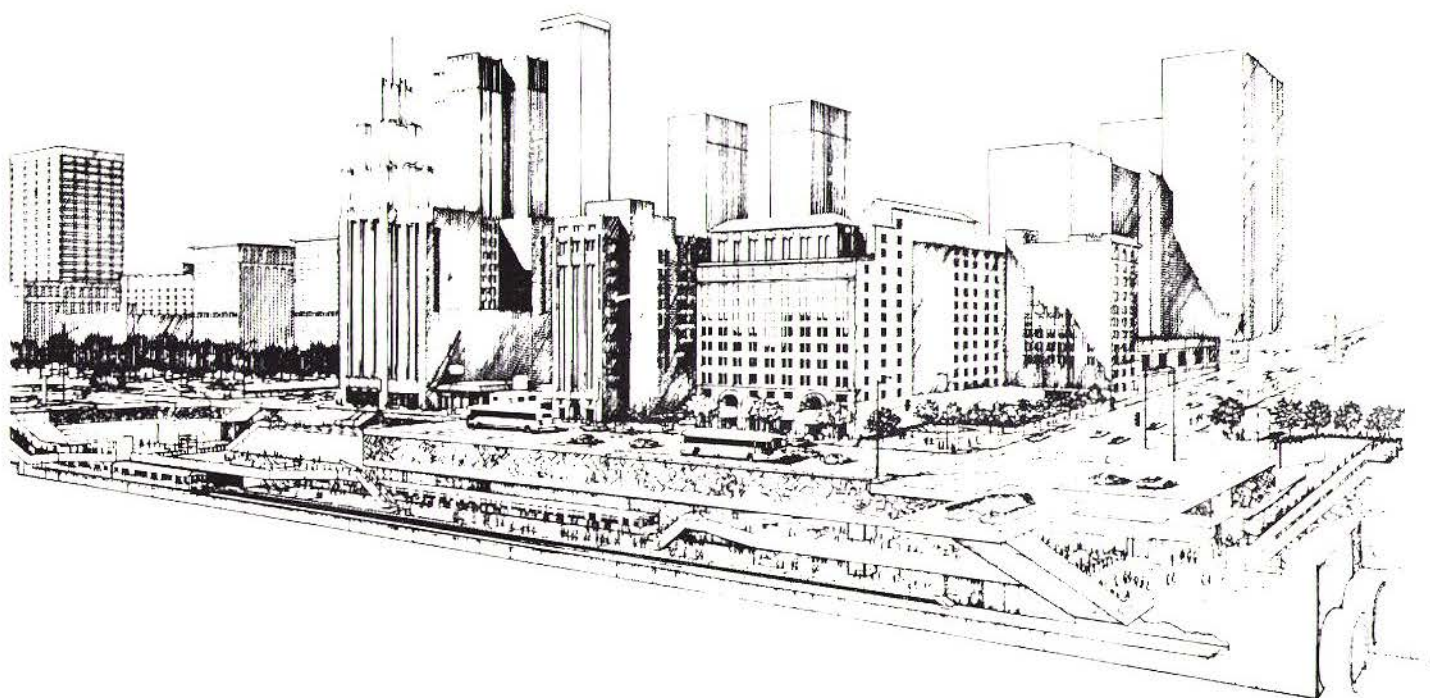
**REPORT NUMBER 6
DECEMBER 1984**

PDCD



LOS ANGELES **METRO RAIL** PROJECT

MONTHLY CONTRACT PERFORMANCE REPORT



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A JOINT VENTURE OF THE RALPH M. PARSONS COMPANY, DILLINGHAM CONSTRUCTION, INC. AND DE LEUW, CATHER & COMPANY



LOS ANGELES METRO RAIL
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FOREWORD

This sixth monthly Contract Performance Report covers the First Annual Work Plan, Phase I Preconstruction, work activities for the reporting month of December 1984 (December 1 through December 28, 1984).

Parsons-Dillingham-De Leuw, Cather



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I. Construction Manager's Summary Statement

Work activities during the December reporting period focused primarily on incorporation of additional RTD comments into the procedure manuals for resubmission to the RTD, establishment of a joint MRTC/PDCD MOS-1 baseline schedule, coordination of utility relocations, performance of estimate reviews, completion of the review of the Standard Technical Specifications and continuation of design reviews for constructibility.

As of December 28, the following procedure manuals have been submitted to RTD for final approval:

- (1) Organization and Responsibilities
- (2) Administration Procedures
- (3) Construction Safety and Security (includes Safety Monitoring and Safety Plan)
- (4) Construction Operations (includes Permits and Licenses, Coordination between Contractors, and Coordination of Utilities and Traffic)

The status of the remaining manuals is:

- (1) Quality Assurance/Quality Control - being rewritten to incorporate PDCD's recommendation on Management of Quality (awaiting RTD's decision on QQC).
- (2) Procurement-Completion awaiting resolution/definition by RTD of Resident Engineer (RE) vs. Contract Administration (CA) responsibilities.
- (3) Project Controls (includes Cost and Scheduling, Configuration Control, and Development of the Annual Work Plan) - Portions are finished, but completion is dependent on definition of the operating system by RTD.
- (4) Resident Engineer (includes Management of Construction Changes) - completion awaiting resolution of RE vs. CA responsibilities.
- (5) Inspector Guidelines - Initial RTD comments have been incorporated, and the manual has been resubmitted; awaiting additional RTD comments or final approval.

Parsons-Dillingham-De Leuw, Cather



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A draft Amendment 2 to the Prime Contract for Phase II Construction during the First Annual Work Plan has been prepared. Submission will be made upon RTD's request, pending funding availability.

The PDCD accounting data base has been established through November 30, and the system will be producing current status reports by mid-January.

District approval was received for the Jacobs Associates, Engineering Science, Inc., and Martin & Huang International subcontracts. The Ochoa & Sillas and Randolph & Tate subcontracts have been negotiated and consent packages have been submitted to RTD for approval. The NPCC, Inc., subcontract is still in negotiation. Two subcontractors, Dames & Moore and Hayakawa Associates, have been issued subcontract amendments.

Continued emphasis is being placed on utility relocation. A detailed construction schedule and sequence description of utility company work for A-142, Civic Center Excavation, has been prepared. The final Utility Arrangement Plan for the 5th and Hill Station has been reviewed and commented on. Meetings have begun with the utility companies to review the initial Utility Relocation Plan for A-220, the Wilshire/Normandie Station.

Schedule analysis and meetings with MRTC to establish a joint MOS-1 baseline schedule continued in December.

A preliminary review was conducted of the MOS-1 construction cost estimate of November 30, and comments were submitted to the RTD.

Meetings were held with the RTD to finalize the Construction Performance Report formats and establish a plan for benchmarking TRACS. Contract A-114 will be test-loaded using the budgeting, scheduling, progress payment, change order, and procurement modules. Coordination with the RTD to complete this task will continue in January.

Estimate reviews were conducted on Contracts A-135 (60%), A-140 (60%), A-145 (60%), A-165 (60%), A-170 (60%) and A-175 (85%). Various estimating software packages were evaluated for potential assistance in preparation of PDCD's construction check estimates.



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One civil engineer joined the staff in December and one administrative aide left, holding the staffing constant at 57 assigned personnel of which 3 are part-time. The current staff mix by Joint Venture/Associate subcontractors is summarized in the following table:

<u>Company</u>	<u>Staff Level</u>
The Ralph M. Parsons Company	23
Dillingham Construction, Inc.	7
De Leuw, Cather & Company	8
Better Personnel Employment Services	7
Construction Control Services Corporation	3
Dames & Moore	1
Engineering-Science, Inc.	1
Hayakawa Associates	2
Jacobs Associates	1
Jenkins, Gales & Martinez, Inc.	1
Martin & Hunag International	2
Vanir Construction Management, Inc.	1
Total	57

During the current reporting period, there were 144 available work hours versus the plan of 157. A total of 7,287 hours was expended, producing an equivalent manpower of 51. The equivalent manpower for the period is considerably lower than actual staffing due to holidays and vacation time taken during the holidays.

The DBE participation goal is 17% of the total contract cost. In December, DBE participation accounted for 15% of the total monthly cost, bringing the cumulative percentage of DBE participation to 11.8%. DBE costs continue to run below the goal for primarily two reasons. Delays were experienced in bringing on subcontractors due to front end administrative delays; also the delays in construction startup caused a shift in planned DBE field position to engineering position which have been more difficult to staff.

Parsons-Dillingham-De Leuw, Cather



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The WBE participation goal is 3% of the total contract cost. In December, WBE participation accounted for 3% of the total monthly cost, bringing the cumulative percentage of WBE participation to 2.4%

The affirmative action goals for minorities and women continue to be substantially surpassed.

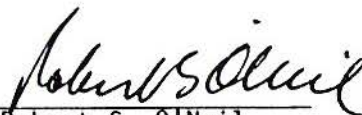
The December cost was \$532,739 verses a budgeted December cost of \$568,264. The cumulative cost to date is \$2,125,318 versus a cumulative budget of \$2,794,635. For the month of December, we have experienced an expenditure under plan of \$35,525 bringing our cumulative underexpenditure to \$669,317.

The third meeting of the PDCD Joint Venture Executive Board was held on December 18, 1984, with Messrs Murray and Strosnider of RTD present.

During January, PDCD will continue to incorporate RTD comments into the procedure manuals. Upon RTD final approval, publication and distribution will be initiated.

Work will continue on establishment of a joint PDCD/MRTC MOS-1 baseline schedule. Constructibility and estimate reviews will be performed with prioritization placed on MOS-1 contract packages.

The proposed Amendment 2 to the contract covering Phase II - Construction for the First Annual Work Plan for MOS-1 will be submitted to the RTD for negotiation so that PDCD will be prepared to respond when construction funds become available.


Robert S. O'Neil
Construction Manager

Parsons-Dillingham-De Leuw, Cather



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II. MANPOWER PERFORMANCE

One civil engineer was added to the staff in December. This addition was offset by the reduction of one administrative aide: thus the total staffing of assigned personnel remained constant at 57. The planned personnel as of December was 66. Figure 1 reflects the status of planned personnel versus actual personnel as of December 28, 1984.

During this reporting period, December 1, 1984, through December 28, 1984, there were 144 available work hours versus the plan of 157 hours. A total of 7,287 hours were expended, producing an equivalent manpower of 51 as reflected in Figure 2.

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Figure 1 - Construction Management Manpower Status
Roster Count 12/28/84

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>
<u>Management</u>			
Construction Manager	1	1	-
Secretarial/Word Processing/Clerical	12	9	(3)
Subtotal	13	10	(3)
<u>Administration and Staff Support</u>			
DCM	1	1	-
Manager, Project Administration	1	1	-
Office Manager	1	1	-
Senior Accountant	1	1	-
Personnel Administrator	1	1	-
Manager, Safety	1	1	-
Manager, Quality Assurance	1	1	-
Manager, Community Relations	1	1	-
EO Administrator	1	1	-
EO Assistant Administrator	1	0	(1)
Labor Relations Advisor	1	1	-
Subtotal	11	10	(1) Part-time
<u>Engineering Services/Project Controls</u>			
DCM	1	1	-
Manager, Project Controls	1	1	-
Lead Estimator	1	1	(-)
Estimator	1	1	(-)
Lead Cost Engineer/Analyst	1	1	-
Cost Engineer/Analyst	1	2	1
Lead Planner/Scheduler	1	1	-
Senior Planner Scheduler	1	1	-
Lead Document Control Specialist	1	1	-
Lead Change Control Analyst	1	0	(1)



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Figure 1 (Contd)

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>	
<u>Engineering Services/Project Controls (Contd)</u>				
Manager, Contracts/Procurement	1	1	-	
Contract Administrator	1	1	-	
Procurement Specialist/Inspector	2	1	(1)	
Manager, Engineering Services	1	1	-	
Lead Geotechnical Engineer	1	1	-	
Lead Electrical Engineer	1	1	-	
Electrical Engineer	1	1	-	
Lead Structural Engineer	1	1	-	
Structural Engineer	1	1	-	
Lead Civil Engineer	0	1	1	
Lead Architect	1	1	-	
Lead Mechanical Engineer	1	1	-	
Mechanical Engineer	1	1	-	
Lead Systems Engineer	1	0	(1)	
Systems Engineer	1	0	(1)	
Geotechnical Technician	2	2	(-)	
Geotechnical Engineering Specialist	1	1	-	Part-time
Subtotal	28	26	(2)	
<u>Planning</u>				
DCM	1	1	-	Part-time
<u>Operations</u>				
DCM	1	1	-	
Manager, General Services	1	1	-	
Lead Utilities Engineer	1	1	-	
Utilities Engineer	2	1	(1)	
Chief of Surveys	1	1	(-)	
Surveyors	2	0	(2)	
Lead Traffic Coordinator	1	1	-	
Preconstruction Surveys Coordinator	1	1	-	



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Figure 1 (Contd)

<u>Position</u>	<u>Planned</u>	<u>Actual</u>	<u>Variance</u>
<u>Operations (Contd)</u>			
Lead Environmental Monitoring/Permit Engineer	1	1	(-)
Zone CM	1	1	-
Manager, Systems Integration	1	1	-
Subtotal	13	10	(3)
Total	66	57	(9)



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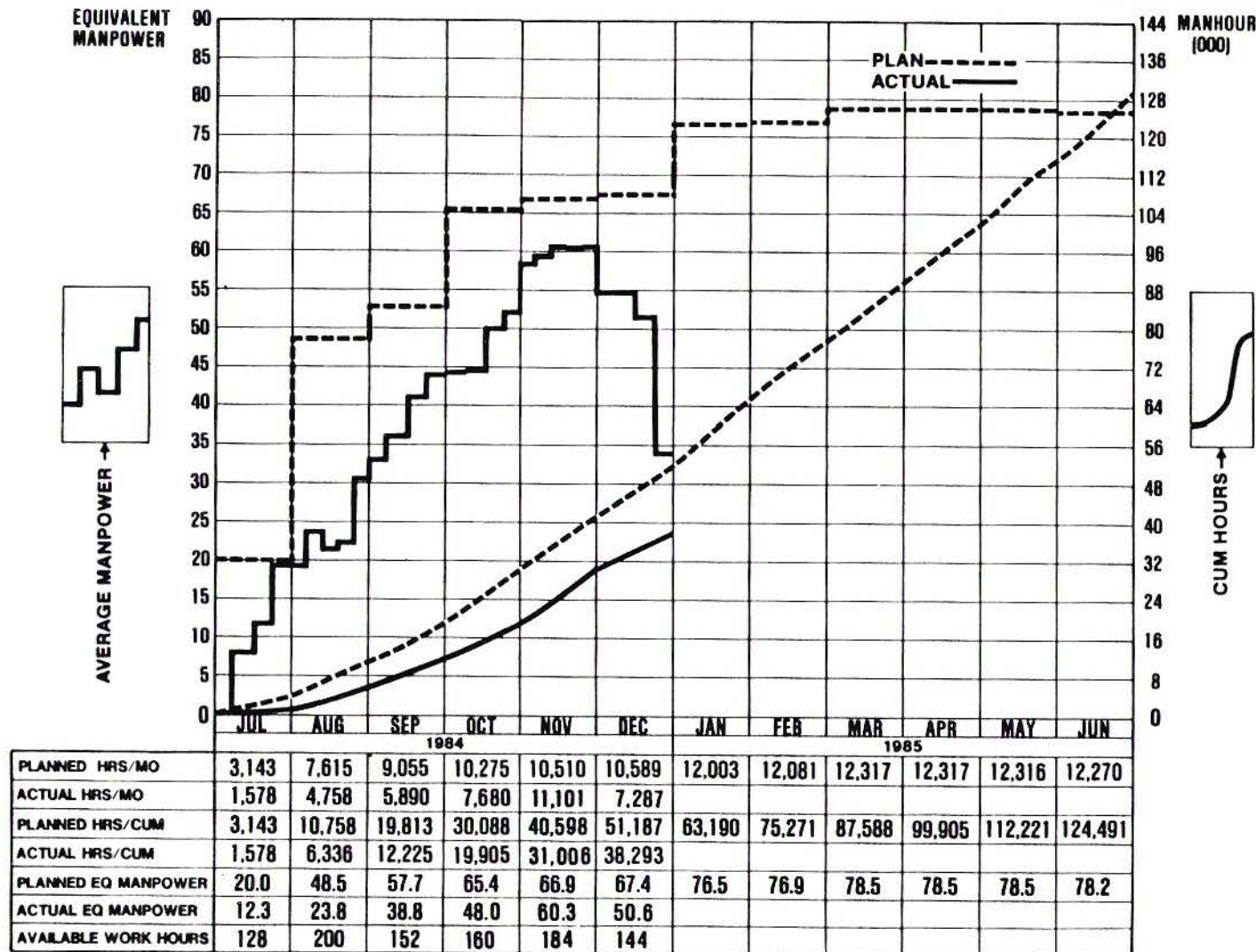


FIGURE 2 - PDCD MANPOWER STATUS

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III EQUAL OPPORTUNITY PERFORMANCE

This month's Equal Opportunity Performance is reported in four separate charts: DBE Participation, WBE Participation, Minority Affirmative Action and Women Affirmative Action.

The DBE participation goal is 17% of the total contract cost. In November the DBE participation was 10%. As indicated in Figure 1, the December participation increased by 5% bringing the total DBE participation to 15%. On a cumulative basis, DBE costs are 11.8% of the December contract cost.

Delays were experienced in bringing subcontractors on board due to contracting and administrative delays. Also, the delay in construction funding has caused a shift in planned DBE field positions to engineering positions, which have been more difficult to staff.

The WBE participation goal is 3% of the total contract cost. In November the WBE participation was 2% as indicated in Figure 2, the December participation increased 1%, meeting the monthly goal of 3%. On a cumulative basis, WBE costs are 2.4% of the total contract cost.

The affirmative action goals for minorities and women continue to be substantially surpassed as reflected in Figures 3 and 4. The December percentage in the minority category decreased 2%.

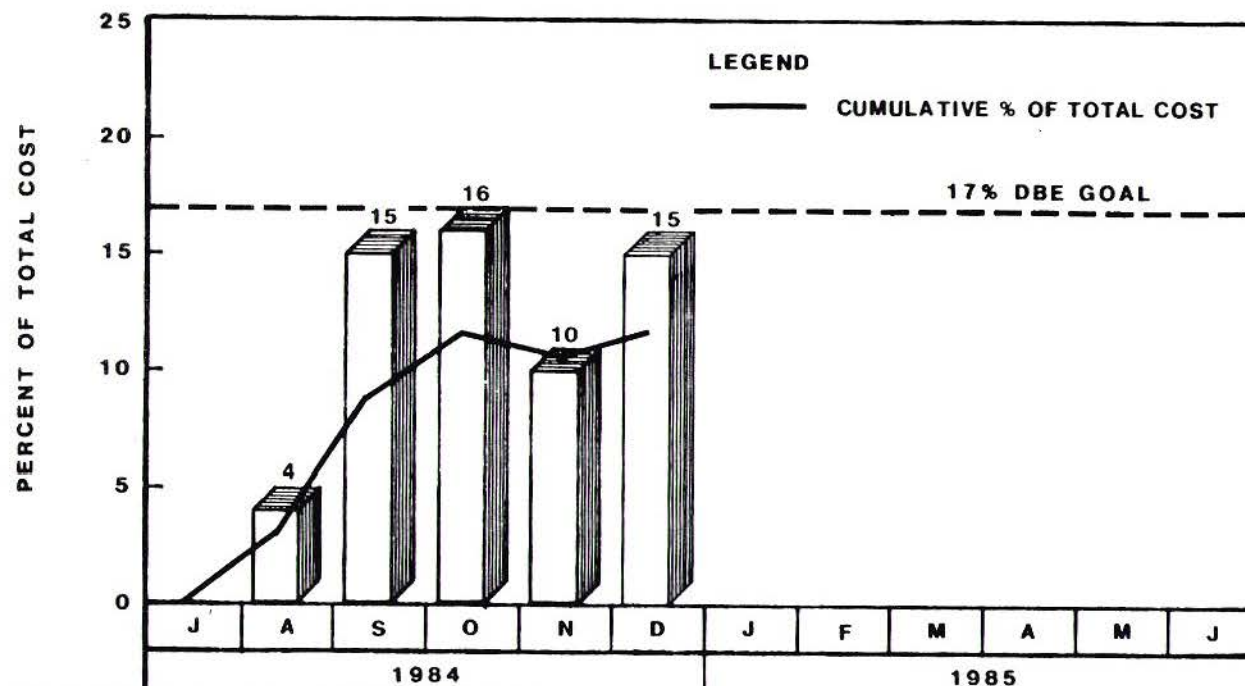
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LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

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	1984						1985					
TOTAL COST (\$000)	101	227	292	363	610	532						
CUMULATIVE TOTAL COST (\$000)	101	328	620	983	1,593	2,125						
MONTHLY DBE COST	0	10	45	59	58	79						
CUMULATIVE DBE COST	0	10	55	114	172	251						
MONTHLY DBE %	0	4	15	16	10	15						
MONTHLY VARIANCE DBE %	0	<13>	<2>	<1>	<7>	<2>						
CUMULATIVE VARIANCE DBE %	0	<13>	<9>	<5>	<6>	<5>						

FIGURE 1 - DBE ANALYSIS

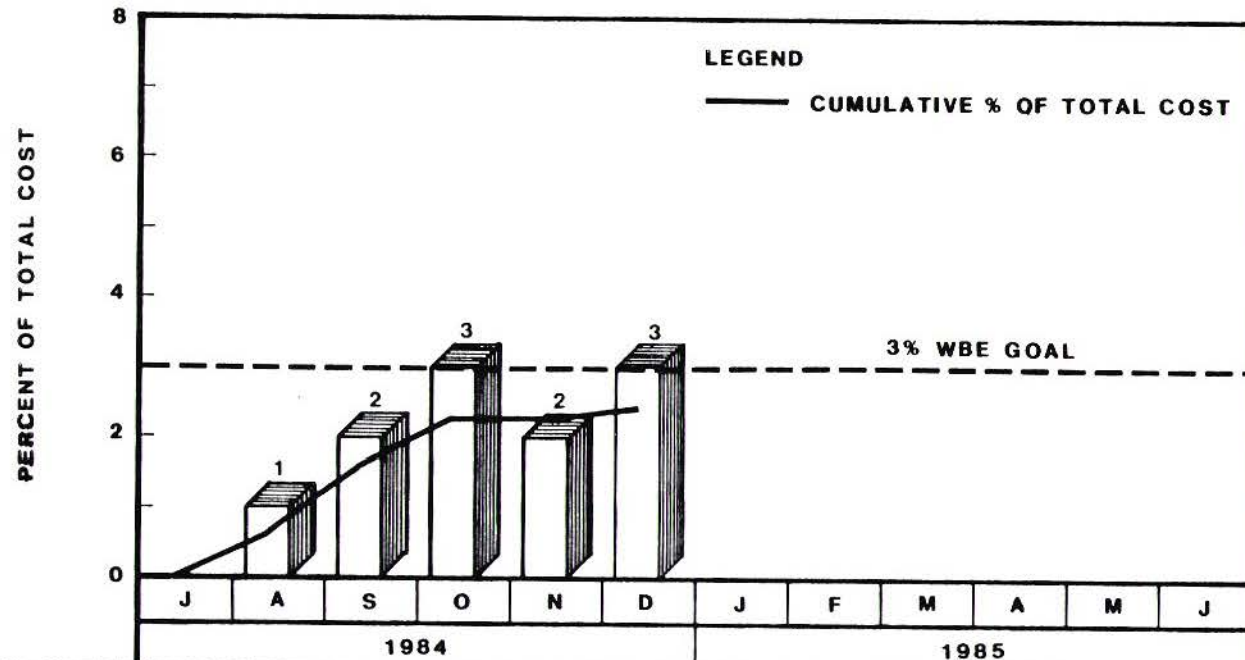
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LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

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PERIOD December 1984



	1984						1985					
TOTAL COST (\$000)	101	227	292	363	610	532						
CUMULATIVE TOTAL COST (\$000)	101	328	620	983	1,593	2,125						
MONTHLY WBE COST	0	2	8	12	13	15						
CUMULATIVE WBE COST	0	2	10	22	35	50						
MONTHLY WBE %	0	1	2	3	2	3						
MONTHLY VARIANCE WBE %	0	<2>	<1>	0	<1>	0						
CUMULATIVE VARIANCE WBE %	0	<2>	<2>	<1>	<1>	<1>						

FIGURE 2 - WBE ANALYSIS

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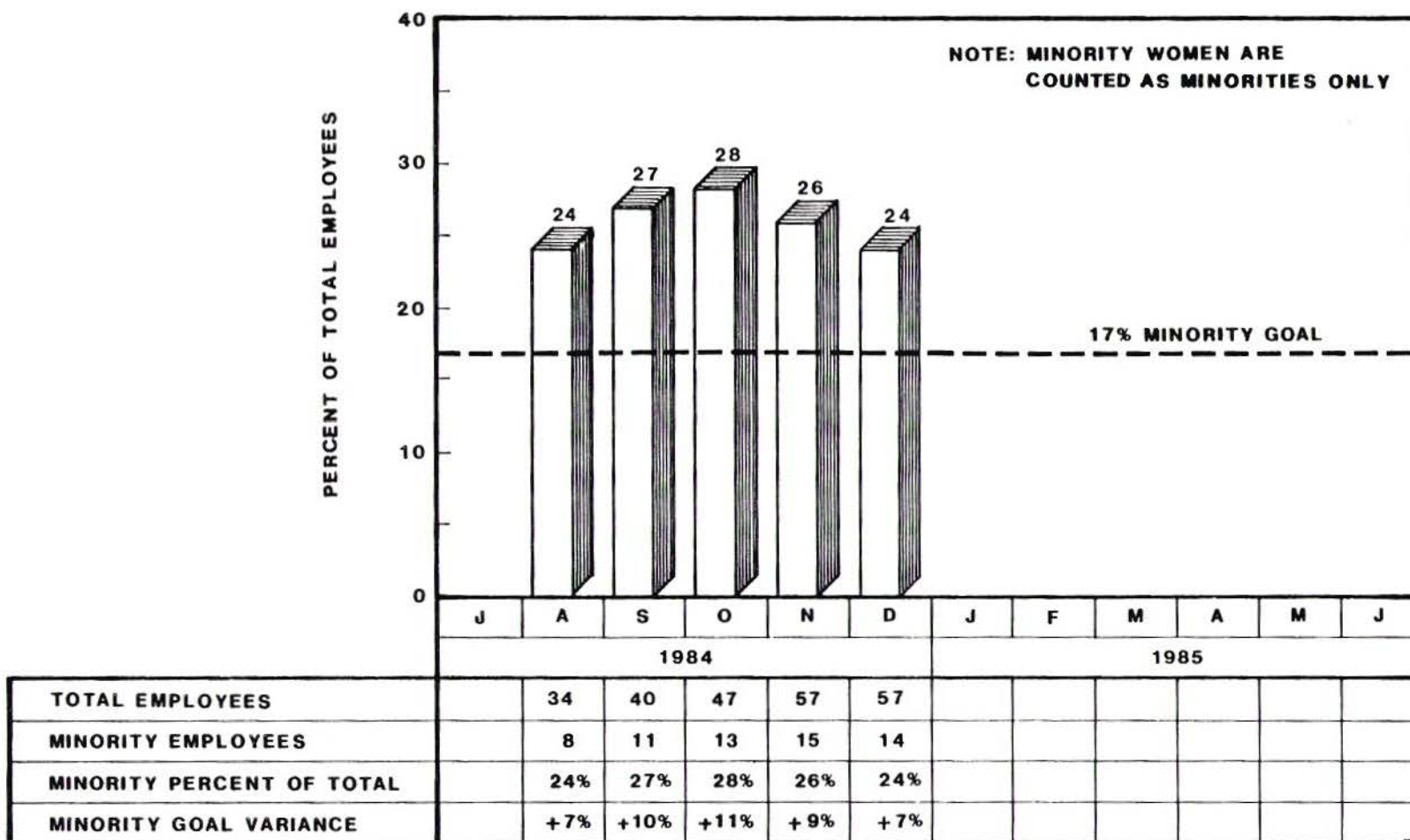


FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS

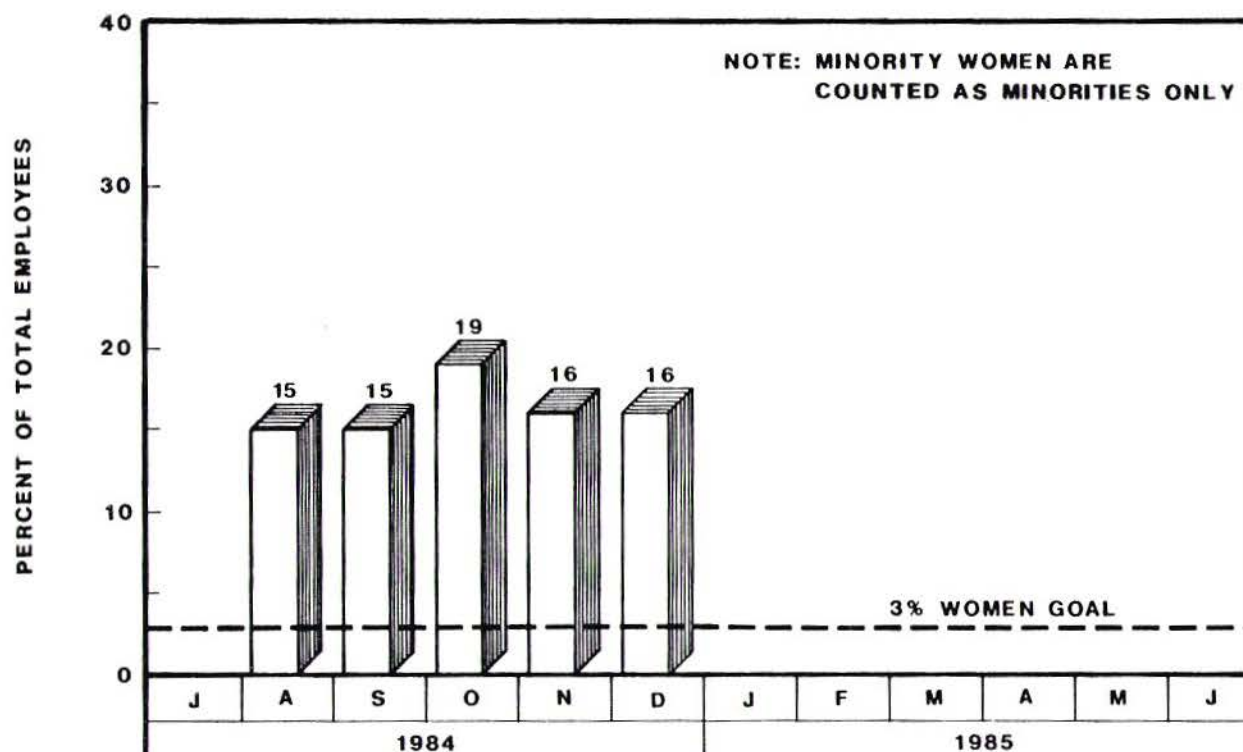
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	J	A	S	O	N	D	J	F	M	A	M	J
	1984						1985					
TOTAL EMPLOYEES		34	40	47	57	57						
WOMEN EMPLOYEES		5	6	9	9	9						
WOMEN PERCENT OF TOTAL		15%	15%	19%	16%	16%						
WOMEN GOAL VARIANCE		+12%	+12%	+16%	+13%	+13%						

FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

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IV. Schedule Performance

Of the nine design packages received during December, 7 were completed and two were delayed due to the MOS-1 Priority Schedule. Two design packages received in November were also completed in December. Six design packages are scheduled for receipt in January.

In December, six previously received estimates were completed and four new estimates were received. a total of eleven estimate review packages are scheduled for completed in January.

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12-01-84 TO 12-28-84

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ISSUE # 1

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-112	SERVICE AREA & MAIN SHOP	DWG	FS100	12-13-84	12-13-84	12-13-84	12-13-84		TABLE TOP REVIEW AT RTD
A-112	SERVICE AREA & MAIN SHOP	SPC	FS100	12-13-84	12-13-84	12-13-84	12-13-84		TABLE TOP REVIEW AT RTD
**									
A-133	BAGGAGE HANDLING FACILITY	DWG	PF85	12-19-84	12-19-84	12-21-84			OTHER MOS-1 PRIORITY REVIEWS IN PROGRESS WHEN MATERIAL RECEIVED. REVIEW IN PROGRESS DATE SET FOR JANUARY 7, 1985
A-133	BAGGAGE HANDLING FACILITY	SPC	PF85	12-19-84	12-19-84	12-21-84			
**									
A-135	UNION STATION STAGE I	DWG	PF85	12-05-84	12-07-84	12-27-84	12-27-84		
A-135	UNION STATION STAGE I	SPC	PF85	12-05-84	12-07-84	12-27-84	12-27-84		
**									
A-136	UNION STATION AND CROSSOVER STAGE II	DWG	PF85	12-05-84	12-07-84	12-27-84	12-27-84		
A-136	UNION STATION AND CROSSOVER STAGE II	SPC	PF85	12-05-84	12-07-84	12-27-84	12-27-84		
**									
A-140	CIVIC CENTER STATION (STAGE I)	EST	PF85		12-27-84				
**									
A-140A	LINE TUNNEL	EST	IP60		09-05-84	12-13-84	12-17-84		
**									
A-140B	5TH/HILL STATION (STAGE I)	EST	IP60		09-05-84	12-18-84	12-17-84		

Review Codes : LT60 - Less than 60% IP60 - In Progress 60% PF85 - Prefinal 85%
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTD Design Review Schedule
2) Additional dates from the Dec. 17, MRTD Design Status Report

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Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
**									
A 142	CIVIC CENTER STATION EXCAVATION & SUPPORT	DWG	FS100		12-17-84	12-21-84	12-21-84		MARKED UP DRAWINGS AND SPECS. SENT 12-21-84. FORMAL COMMENTS TO FOLLOW.
A-142	CIVIC CENTER STATION EXCAVATION & SUPPORT	SPC	FS100		12-17-84	12-21-84	12-21-84		MARKED UP DRAWINGS AND SPECS. SENT 12-21-84. FORMAL COMMENTS TO FOLLOW.
**									
A-165	7TH/FLOWER STATION (STAGE I)	DWG	PF85	11-26-84	11-28-84	12-14-84	12-06-84		
A-165	7TH/FLOWER STATION (STAGE I)	EST	IP60		09-17-84	12-19-84	12-17-84		
A-165	7TH/FLOWER STATION (STAGE I)	SPC	PF85	11-26-84	12-04-84	12-14-84	12-06-84		
**									
A-167	7TH/FLOWER STATION (STAGE II)	DWG	PF85	11-26-84	11-28-84	12-14-84	12-12-84		INCLUDED IN A-165
A-167	7TH/FLOWER STATION (STAGE II)	SPC	PF85	11-26-84	12-04-84	12-14-84	12-12-84		
**									
A-170	LINE TUNNEL	DWG	PF85	11-29-84	12-04-84	12-10-84	12-18-84		
A-170	LINE TUNNEL	EST	IP60		09-17-84	12-17-84	12-17-84		WITH A-170A
A 170	LINE TUNNEL	SPC	PF85	11-29-84	12-04-84	12-10-84	12-18-84		
**									
A-170A	WILSHIRE/ALVARADO STATION	DWG	PF85	11-29-84	12-04-84	12-10-84	12-18-84		

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule
2) Additional dates from the Dec. 17, MRTC Design Status Report

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Contract #	Description	Pks Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
	(STAGE I)								
A-170A	WILSHIRE/ALVARADO STATION (STAGE I)	EST	PF85		09-20-84	12-17-84	12-17-84		
A-170A	WILSHIRE/ALVARADO STATION (STAGE I)	SPC	PF85	11-29-84	12-04-84	12-10-84	12-18-84		
**									
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	DWG	PF85	11-29-84	12-04-84	12-10-84	12-21-84		
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	EST	PF85		12-19-84				
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	SPC	PF85	11-29-84	12-04-84	12-10-84	12-21-84		
**									
A-195	WILSHIRE/VERMONT STATION (STAGE I)	DWG	PF85-1	12-28-84	01-02-85	01-14-85			W/ SEISMIC
A-195	WILSHIRE/VERMONT STATION (STAGE I)	SPC	PF85-1	12-28-84	01-02-85	01-14-85			W/ SEISMIC
**									
A-250	WILSHIRE/FAIRFAX STATION (STAGE I)	DWG	IP60	11-16-84	11-20-84	12-03-84			MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-08-84.
A-250	WILSHIRE/FAIRFAX STATION (STAGE I)	EST	IP60		12-03-84				
A-250	WILSHIRE/FAIRFAX STATION (STAGE I)	SPC	IP60	11-16-84	11-20-84	12-03-84			MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-08-
**									

Review Codes : LT60 - Less than 60% IP60 - In Progress 60% PF85 - Prefinal 85%
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule
2) Additional dates from the Dec. 17, MRTC Design Status Report

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12-01-84 TO 12-28-84

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Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-267	WILSHIRE/FAIRFAX STATION (STAGE II)	DWG	IP60	11-16-84	11-20-84	12-03-84			INCLUDED WITH A-250
A-267	WILSHIRE/FAIRFAX STATION (STAGE II)	EST	IP60		12-03-84				
A-267	WILSHIRE/FAIRFAX STATION (STAGE II)	SPC	IP60	11-15-84	11-20-84	12-03-84			MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-08-85.
**									
A-310	LINE TUNNEL	DWG	IP60	11-15-84	11-16-84	12-03-84	11-30-84		
A-310	LINE TUNNEL	SPC	IP60	11-15-84	11-16-84	12-03-84	11-30-84		
**									
A-327	FAIRFAX/SANTA MONICA STATION (STAGE I)	DWG	IP60	11-15-84	11-16-84	12-03-84	11-30-84		INCLUDED WITH A-310
A-327	FAIRFAX/SANTA MONICA STATION (STAGE I)	SPC	IP60	11-15-84	11-16-84	12-03-84	11-30-84		
**									
A-410	LINE TUNNEL CAHUENGA TO UNIVERSAL CITY	DWG	PF85	11-29-84	12-04-84	12-17-84			MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-25-85
A-410	LINE TUNNEL CAHUENGA TO UNIVERSAL CITY	SPC	PF85	11-29-84	12-04-84	12-17-84			MOS-1 CONTRACTS HAVE PRIORITY. ESTIMATED DATE OF 01-25-85.
**									

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule
2) Additional dates from the Dec. 17, MRTC Design Status Report

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL

JANUARY CONSTRUCTIBILITY REVIEW ACTIVITIES

PDCD

PERIOD December 1984

SHC20513

PDCD

DESIGN PACKAGE STATUS WINDOW REPORT - NEXT PERIOD
12-31-84 TO 01-25-85

01-04-85

PAGE 1

DATE OF ISSUE 01-04-85

ISSUE # 1

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-115	STORAGE YARD	EST	IP60		10-01-84	01-01-85			
**									
A-135	UNION STATION STAGE I	EST	IP60		09-17-84	01-07-85	12-17-84		
**									
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	EST	IP60		09-17-84	01-15-85			
**									
A-195	WILSHIRE/VERMONT STATION (STAGE I)	DWG	PF85-1	12-28-84	01-02-85	01-14-85			W/ SEISMIC
A-195	WILSHIRE/VERMONT STATION (STAGE I)	EST	LT60		09-05-84	01-18-85			
A-195	WILSHIRE/VERMONT STATION (STAGE I)	SPC	PF85-1	12-28-84	01-02-85	01-14-85			W/ SEISMIC
**									
A-220	LINE TUNNEL	EST	IP60		09-26-84	01-23-85			
**									
A-220A	WILSHIRE/WESTERN STATION (STAGE I)	DWG	PF85	01-14-85					
A-220A	WILSHIRE/WESTERN STATION (STAGE I)	SPC	PF85	01-14-85					
**									
A-240	WILSHIRE/CRENSHAW STATION (STAGE I)	EST	IP60		10-08-84	01-25-85			
**									

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTD Design Review Schedule
2) Additional dates from the Dec. 17, MRTD Design Status Report

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL

JANUARY CONSTRUCTIBILITY REVIEW ACTIVITIES

PDCDPERIOD December 1984

SPC20513

PDCD

DESIGN PACKAGE STATUS WINDOW REPORT - NEXT PERIOD
12-31-84 TO 01-25-85

01-04-85

PAGE 2

DATE OF ISSUE 01-04-85

ISSUE # 1

Contract #	Description	Pks Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-275	FAIRFAX/BEVERLY STATION (STAGE 1)	DWG	PF85	01-18-85					
A-275	FAIRFAX/BEVERLY STATION (STAGE 1)	EST	IP60		09-05-84	01-03-85			
A-275	FAIRFAX/BEVERLY STATION (STAGE 1)	SPC	PF85	01-18-85					
**									
A-410	LINE TUNNEL CAHUENGA TO UNIVERSAL CITY	DWG	FS100	01-23-85					
A-410	LINE TUNNEL CAHUENGA TO UNIVERSAL CITY	SPC	FS100	01-23-85					
**									
A-610	TRACKWORK - MAINLINE TRACKWORK	DWG	IP60	01-17-85					
A-610	TRACKWORK - MAINLINE TRACKWORK	SPC	IP60	01-17-85					
**									
A-630	PROCURE TRACTION POWER	DWG	PF85	01-04-85					
A-630	PROCURE TRACTION POWER	EST	IP60		09-26-84	01-04-85			
A-630	PROCURE TRACTION POWER	SPC	PF85	01-04-85					
**									
A-640	COMMUNICATION	EST	IP60		09-26-84	01-11-85			
**									
A-650	PASSENGER VEHICLE	EST	IP60		09-26-84	01-18-85			

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTD Design Review Schedule
2) Additional dates from the Dec. 17, MRTD Design Status Report

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RAIL
JANUARY CONSTRUCTIBILITY REVIEW ACTIVITIES

PDCD

PERIOD December 1984

SPC20513

PDCD

DESIGN PACKAGE STATUS WINDOW REPORT - NEXT PERIOD
12-31-84 TO 01-25-85

01-04-85

PAGE 3

DATE OF ISSUE 01-04-85

ISSUE # 1

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
**									
A-660	FARE COLLECTION	EST	IP60		09-26-84	01-25-85			
**									

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%
FS100 - Final submittal 100% DC100 - Final design complete 100%

NOTES : 1) Based on Jan. 2, MRTC Design Review Schedule
2) Additional dates from the Dec. 17, MRTC Design Status Report

Parsons-Dillingham-De Leuw, Cather

MINIMUM OPERABLE SEGMENT (PHASE A1)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A100	A111	SITWORK - CURBS, GUTTERS & SIDEWALK CONSTRUCTION ALONG SANTA FE AVENUE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A112	MAIN SHOP BUILDING AND YARD SERVICE AREA	DESIGN	◆						◆											
			COST ESTIMATE																		
			BID PACKAGE																		
	A114	MAINTENANCE-OF-WAY SHOP BLDG.	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A115	YARD STORAGE AREA	DESIGN				◆														
			COST ESTIMATE	◆									◆								
			BID PACKAGE																		
	A116	YARD SITE SECURITY FENCING	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A117	YARD SITE LIGHTING	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◆ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

MINIMUM OPERABLE SEGMENT (PHASE A1)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A100	A118	YARD SITE LANDSCAPING	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A119	TRACK RELOCATION, FIRST STREET AND HOBART YARD (FORCE ACCOUNT)	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A130	YARD LEADS AND TRANSFER ZONE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A135	A133	UNION STATION REPLACE- MENT BAGGAGE HANDLING FACILITIES	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A135	UNION STATION, STAGE I AND DOUBLE CROSSOVER	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A136	UNION STATION, STAGE II AND DOUBLE CROSSOVER	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

MINIMUM OPERABLE SEGMENT (PHASE A1)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY					
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1	
A135	A138	UNION STATION SITEWORK - (CURBS, GUTTERS, SIDE- WALKS AND PAVING AT EAST END)	DESIGN																			
			COST ESTIMATE																			
			BID PACKAGE																			
	A139	UNION STATION SITE LANDSCAPING	DESIGN																			
			COST ESTIMATE																			
			BID PACKAGE																			
A137	A137	CENTRAL CONTROL FACILITY	DESIGN																			
			COST ESTIMATE																			
			BID PACKAGE																			
A140	A141	LINE SECTION, UNION STATION TO 7TH/FLOWER AND CIVIC CENTER STATION - STAGE I	DESIGN																			
			COST ESTIMATE																			
			BID PACKAGE																			
	A142	CIVIC CENTER EXCAVATION SUPPORT & UTILITY RELOCATION	DESIGN																			
			COST ESTIMATE																			
			BID PACKAGE																			
	A147	CIVIC CENTER STATION STAGE II	DESIGN																			
			COST ESTIMATE																			
			BID PACKAGE																			

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTCD DESIGN SCHEDULE

MINIMUM OPERABLE SEGMENT (PHASE A1)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A140	A145	5TH/HILL STATION, STAGE I	DESIGN																		
			COST ESTIMATE	←																	
			BID PACKAGE																		
	A157	5TH/HILL STATION, STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A148	A148	5TH/HILL, VAULTS RELOCATION	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A165	A166	LINE SECTION 5TH/HILL TO 7TH/FLOWER AND 7TH/FLOWER STATION, STAGE I	DESIGN																		
			COST ESTIMATE	←																	
			BID PACKAGE																		
	A167	7TH/FLOWER STATION, STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A170	A171	LINE SECTION, 7TH/FLOWER TO WILSHIRE/ALVARADO	DESIGN																		
			COST ESTIMATE	←																	
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

MINIMUM OPERABLE SEGMENT (PHASE A1)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A170	A175	WILSHIRE/ALVARADO STATION, STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A187	WILSHIRE/ALVARADO STATION, STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A185	WILSHIRE/ALVARADO SITEWORK (CURBS, GUTTERS, AND SIDEWALKS)	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A186	WILSHIRE/ALVARADO SITE LANDSCAPING	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:

DATA DATE

SCHEDULED/FORECAST

ACTUAL

REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

Ⓐ

ADVERTISE FOR BIDS

Ⓐ

NOTICE TO PROCEED

PDCD REVIEW PERIOD

MRTC DESIGN SCHEDULE

FOLLOW-ON SEGMENT (PHASE A2)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A195	A196	WILSHIRE/VERMONT STATION, STAGE I LINE SECTION WILSHIRE/ALVARADO TO WILSHIRE/VERMONT	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A197	WILSHIRE/VERMONT STATION STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A220	A220	WILSHIRE/NORMANDIE STATION AND WILSHIRE/ WESTERN STATION, STAGE I LINE SECTION WILS/VERM TO WILSHIRE/LA BREA	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A227	WILSHIRE/NORMANDIE STATION STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A240	A237	WILSHIRE/WESTERN STATION STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A240	WILSHIRE/CRENSHAW STATION, STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

FOLLOW-ON SEGMENT (PHASE A2)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A240	A242	WILSHIRE/CRENSHAW STATION, STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A245	A245	WILSHIRE/LA BREA STATION, STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A247	WILSHIRE/LA BREA STATION, STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A250	A250	WILSHIRE/FAIRFAX STATION, STAGE I LINE SECTION - WILSHIRE/LA BREA TO FAIRFAX/BEVERLY STATION	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A252	WILSHIRE/FAIRFAX TEST PIT	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A267	WILSHIRE/FAIRFAX STATION, STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

FOLLOW-ON SEGMENT (PHASE A2)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A275	A275	FAIRFAX/BEVERLY STATION, STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A277	A277	FAIRFAX/BEVERLY STATION, STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

FOLLOW-ON SEGMENT (PHASE A3)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A310	A320	LINE SECTION - FAIRFAX/ BEVERLY TO FAIRFAX/ SANTA MONICA STATION & FAIRFAX/SANTA MONICA STATION, STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A327	FAIRFAX/SANTA MONICA STATION STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A330	LINE SECTION FAIRFAX/SANTA MONICA TO HOLLYWOOD/CAHUENGA, LA BREA/SUNSET STATION STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A347	LA BREA/SUNSET STATION STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A350	A350	HOLLYWOOD/CAHUENGA STATION STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A352	HOLLYWOOD/CAHUENGA STATION STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

FOLLOW-ON SEGMENT (PHASE A4)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY			
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22
A410	A410	LINE SECTION - HOLLYWOOD/CAHUENGA TO UNIVERSAL CITY	DESIGN																	
			COST ESTIMATE																	
			BID PACKAGE																	
A415	A415	HOLLYWOOD BOWL STATION STAGE I (CONSTRUCTION DEFERRED)	DESIGN																	
			COST ESTIMATE																	
			BID PACKAGE																	
	A415	HOLLYWOOD BOWL STATION STAGE II (CONSTRUCTION DEFERRED)	DESIGN																	
			COST ESTIMATE																	
			BID PACKAGE																	
A425	A425	UNIVERSAL CITY STATION, STAGE I	DESIGN																	
			COST ESTIMATE																	
			BID PACKAGE																	
	A427	UNIVERSAL CITY STATION, STAGE II	DESIGN																	
			COST ESTIMATE																	
			BID PACKAGE																	
A430	A430	LINE BETWEEN UNIVERSAL CITY STATION AND NORTH HOLLYWOOD STATION	DESIGN																	
			COST ESTIMATE																	
			BID PACKAGE																	

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- (A) ADVERTISE FOR BIDS
- (N) NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

FOLLOW-ON SEGMENT (PHASE A4)
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A445	A445	NORTH HOLLYWOOD STATION STAGE I	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A447	NORTH HOLLYWOOD STATION STAGE II	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
			DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

SYSTEMWIDE
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A610	A610	TRACKWORK - FURNISH & INSTALL	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A612	A612	CONTACT RAIL - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A615	A615	PROTECTIVE COVERBOARD - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A620	A620	AUTOMATIC TRAIN CONTROL - DESIGN, FURNISH & INSTALL	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A630	A630	TRACTION POWER EQUIPMENT - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A631	A631	TRACTION POWER - INSTALL	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:



REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ ADVERTISE FOR BIDS
- Ⓝ NOTICE TO PROCEED
- PDCD REVIEW PERIOD
- MRTD DESIGN SCHEDULE

SYSTEMWIDE
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A640	A640	COMMUNICATIONS - DESIGN, FURNISH, AND INSTALL	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A650	A650	PASSENGER VEHICLES - PROCURE	DESIGN																		
			COST ESTIMATE	◀												◊					
			BID PACKAGE																		
A660	A660	FARE COLLECTION - DESIGN, FURNISH, AND INSTALL	DESIGN																		
			COST ESTIMATE	◀													◊				
			BID PACKAGE																		
A670	A671	LOCOMOTIVE - PROCURE (M.O.S.-1)	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A672	FLAT CARS - PROCURE (M.O.S.-1)	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
	A675	CRANE FOR FLAT CAR (M.O.S.-1) - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:

DATA DATE

SCHEDULED/FORCAST

ACTUAL

REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

(A)
(N)

- ADVERTISE FOR BIDS
- NOTICE TO PROCEED
- PD CD REVIEW PERIOD
- MRTC DESIGN SCHEDULE

SYSTEMWIDE
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A680	A680	OPERATIONAL GRAPHICS - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A710	A710	ESCALATORS - FURNISH AND INSTALL	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A720	A720	ELEVATORS - FURNISH AND INSTALL	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A730	A730	"FIXED" SHOP EQUIPMENT - FURNISH AND INSTALL	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A735	A735	FREESTANDING/PORTABLE SHOP EQUIPMENT - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A740	A740	FANS - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:

DATA DATE



SCHEDULED/FORECAST

ACTUAL

REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

- Ⓐ
- Ⓝ

ADVERTISE FOR BIDS

NOTICE TO PROCEED

PDCD REVIEW PERIOD

MRTC DESIGN SCHEDULE

SYSTEMWIDE
(DESIGN, ESTIMATE AND BID PACKAGE REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	DOCUMENT	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				
DESIGN	CONST.			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1
A745	A745	TPSS AIR HANDLING EQUIPMENT - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A760	A760	SIGNS & GRAPHICS - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A770	A770	RUBBER TIRED VEHICLES - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A775	A775	MOBILE EMERGENCY AND MAINTENANCE EQUIPMENT - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A780	A780	FURNITURE - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		
A790	A790	FIRST STORES AND CONSUMABLES - PROCURE	DESIGN																		
			COST ESTIMATE																		
			BID PACKAGE																		

LEGEND:

DATA DATE

SCHEDULED/FORECAST

ACTUAL

REVIEW STATUS:

- 30%
- 60%
- △ 85%
- ◇ 100%
- ◇ SUBMITTAL TO RTD

(A)
(N)

ADVERTISE FOR BIDS
NOTICE TO PROCEED
PDCD REVIEW PERIOD
MRTC DESIGN SCHEDULE

CM SERVICES IN-HOUSE SCHEDULE

DESCRIPTION	RESPON- SIBILITY	NOVEMBER					DECEMBER				JANUARY				FEBRUARY				REMARKS	
		2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22		1
C. M. PROCEDURES:																				
1) C.M. ORGANIZATION		▲																		
2) ESTABLISH O&M OF DOWNTOWN OFFICE		■	■	■	■	■	■	■	■	■										
3) MANAGEMENT OF CONST. CHANGES																				PART OF R.E. MANUAL
4) QUALITY ASSURANCE		■	■	■	■	■	■	■	■	■	■	■	■	■	▲					
5) PERMITS & LICENSES		■	■	■	■	■														
6) COORD. BETWEEN CONTRACTORS		■	■	■	■	■														
7) SAFETY MONITORING		■	■	■	■	■														
8) COORDINATE UTILITIES & TRAFFIC		■	■	■	■	■														
9) CONFIGURATION CONTROL		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
10) SAFETY PLAN		■	■	■	■	■														
11) RESIDENT ENGINEERS MANUAL		■	■	■	■	■														
12) STAFFING PLAN		■	■	■	■	■	■													
13) COST & SCHEDULING		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
14) OTHERS AS REQUIRED BY CM																				

SCHED.

ACTUAL



DRAFT TO RTD
FINAL SUBMITTAL TO RTD



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V. COST PERFORMANCE

During the current reporting period, December 1, 1984, through December 28, 1984, the total cost was \$532,739, which is \$35,525 under plan. The cumulative cost to date is \$2,125,318, bringing the cumulative underun to \$669,317.

The breakdown by expenditure category is shown in Figure 2, page V-3.

PDCD labor burdens and fee accounted for \$198,000 of the current month's expenditure. The planned expenditure was \$294,000. The variance under plan of \$96,000 is attributable to holidays and vacation time taken at year-end. Secondly, the current period had 144 available work hours while the plan was based on an average of 157 available work hours.

Travel and ODC costs for the month were \$221,000 versus a plan of \$121,000. Cumulative ODC and Travel costs total \$542,000 versus a plan of \$602,000, leaving a \$60,000 cumulative underun. The high cost during December is attributable to relocation expense accrued at the time of commitment. To date, \$94,000 has been paid in relocation costs and an additional \$150,000 has been accrued.

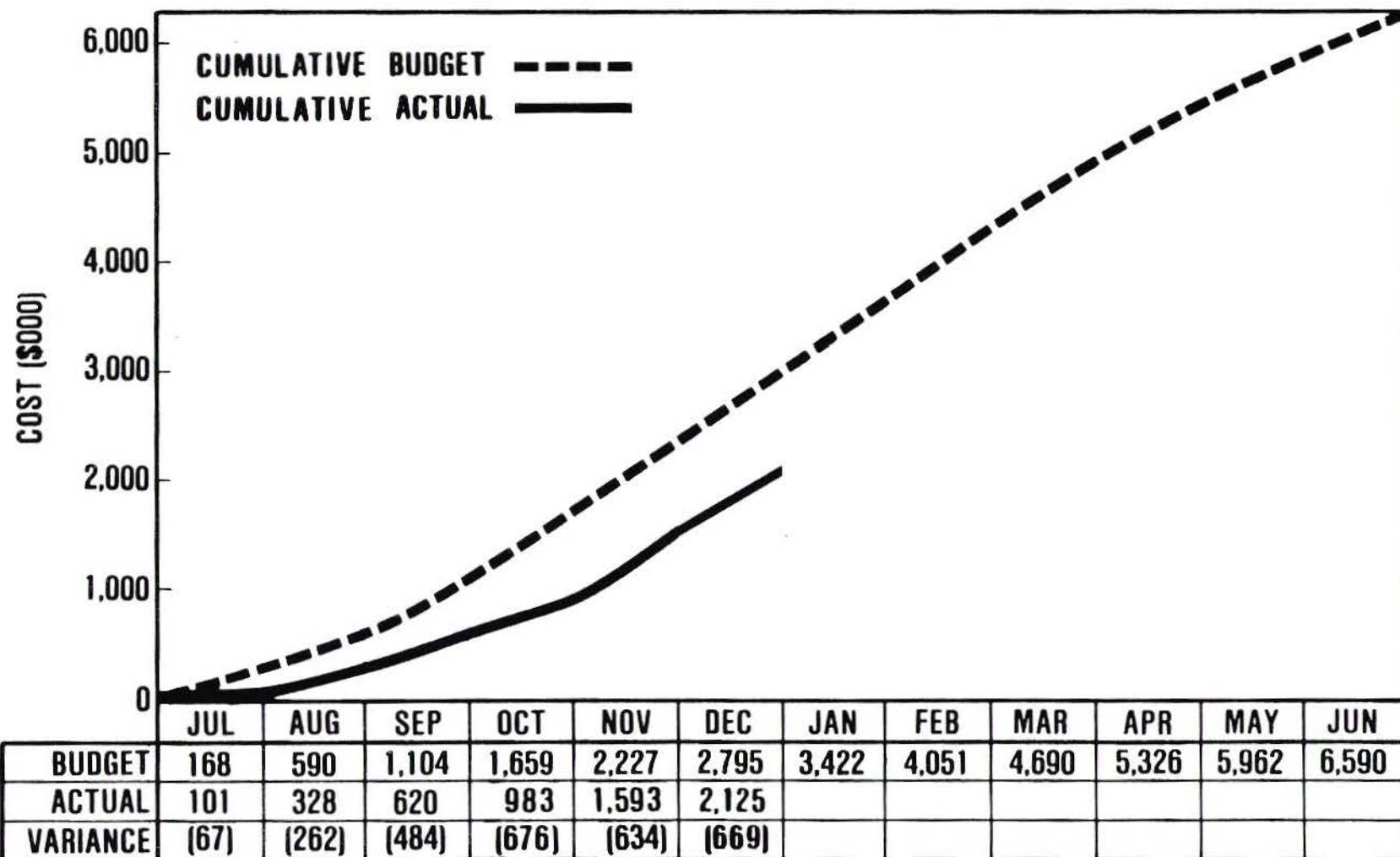
Subcontractor costs were \$113,000 versus a plan of \$153,000, producing a variance under plan of \$40,000. Cumulatively, the total cost is \$347,000 versus a plan of \$705,000, \$358,000 under plan. This variance is primarily attributable to the late start of the subcontractors. Three subcontractors, Ochoa & Sillas, Jacobs Associates and Hayakawa Associates, have a combined total under expenditure of \$291,000. The remaining \$67,000 is spread among the other seven subcontractors.



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CM COST PERFORMANCE - DECEMBER 1984

PDCD		PLANNED	ACTUAL	VARIANCE	%
LABOR, BURDENS, FEE	CUMULATIVE THROUGH NOVEMBER	1,194	1,038	(156)	(13)
	CURRENT MONTH ACTUALS (INCL. ACCRUAL)	294	198	(96)	(33)
	CUMULATIVE THROUGH DECEMBER	1,488	1,236	(252)	(17)
TRAVEL AND ODCs	CUMULATIVE THROUGH NOVEMBER	481	321	(160)	(33)
	CURRENT MONTH ACTUALS (INCL. ACCRUAL)	121	221	100	83
	CUMULATIVE THROUGH DECEMBER	602	542	(60)	(10)
SUBCONTRACTORS	CUMULATIVE THROUGH NOVEMBER	552	234	(318)	(58)
	CURRENT MONTH ACTUALS (INCL. ACCRUAL)	153	113	(40)	(26)
	CUMULATIVE THROUGH DECEMBER	705	347	(358)	(51)
TOTAL COST	CUMULATIVE THROUGH NOVEMBER	2,227	1,593	(634)	(28)
	CURRENT MONTH ACTUALS (INCL. ACCRUAL)	568	532	(36)	(6)
	CUMULATIVE THROUGH DECEMBER	2,795	2,125	(670)	(24)
HOURS	CUMULATIVE THROUGH NOVEMBER	40,598	31,006	(9,592)	(24)
	CURRENT MONTH ACTUALS (INCL. ACCRUAL)	10,589	7,287	(3,302)	(31)
	CUMULATIVE THROUGH DECEMBER	51,187	38,293	(12,894)	(25)

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		Jul	Cumulative	Aug	Cumulative	Apr	Cumulative	May	Cumulative	Jun	Cumulative
<u>FUNCTIONAL DEPARTMENT</u>											
Project Management and Secretarial	Plan	1,335.00	1,335.00	1,649.00	2,982,708.00	24,056.00	2,708.00	26,764.00	2,593.00	2,933.70	
	Actual	724.00	724.00	1,643.50	2,361						
Systems Integration Manager	Plan	-	-	157.00	157	157.00	1,413.00	157.00	1,570.00	157.00	1,727.00
	Actual	-	-	-	-						
East Zone Construction Manager	Plan	-	-	157.00	157	157.00	1,413.00	157.00	1,570.00	157.00	1,727.00
	Actual	-	-	-	-						
General Services Manager	Plan	79.00	79.00	942.00	1,022,041.00	14,994.00	2,041.00	17,035.00	2,041.00	19,076.00	
	Actual	40.00	40.00	216.00	251						
Project Controls	Plan	393.00	393.00	1,256.00	1,644,727.00	14,052.00	1,727.00	15,779.00	1,727.00	17,506.00	
	Actual	262.75	262.75	842.00	1,101						
Contracts/Procurement	Plan	314.00	314.00	471.00	781	628.00	5,495.00	628.00	6,123.00	628.00	6,751.00
	Actual	119.00	119.00	377.50	491						
Engineering Services	Plan	79.00	79.00	1,727.00	1,800,747.00	21,270.00	2,747.00	24,017.00	2,826.00	26,843.00	
	Actual	40.00	40.00	480.00	521						
Community Relations	Plan	79.00	79.00	157.00	231	471.00	2,748.00	471.00	3,219.00	471.00	3,690.00
	Actual	-	-	-	-						
Safety and Security	Plan	79.00	79.00	157.00	231	157.00	1,492.00	157.00	1,649.00	157.00	1,806.00
	Actual	-	-	176.00	171						
Quality Assurance	Plan	157.00	157.00	157.00	311	157.00	1,570.00	157.00	1,727.00	157.00	1,884.00
	Actual	46.00	46.00	192.00	231						
Administration	Plan	628.00	628.00	628.00	1,251	628.00	6,280.00	628.00	6,908.00	628.00	7,536.00
	Actual	198.00	198.00	452.00	651						
EEO Administration	Plan	-	-	157.00	157	471.00	3,140.00	471.00	3,611.00	471.00	4,082.00
	Actual	-	-	120.00	121						
Labor Relations	Plan	-	-	-	-	79.00	474.00	79.00	553.00	69.00	622.00
	Actual	-	-	8.00	8						
Legal Counsel	Plan	-	-	-	-	189.00	1,508.00	188.00	1,696.00	188.00	1,884.00
	Actual	-	-	-	-						
Subtotal	Plan	3,143.00	3,143.00	7,615.00	10,752,317.00	99,905.00	12,316.00	112,221.00	12,270.00	124,491.00	
	Actual	1,429.75	1,429.75	4,507.00	5,931						
<u>OTHER DIRECT LABOR</u>											
Home Office Support											
The Ralph M. Parsons Company	Procurement & Contracts	Actual	9.50	9.50	41.50	5					
	Project Controls	Actual	-	-	-	-					
	Admin. and Acctg.	Actual	69.50	69.50	58.50	121					
	Technical	Actual	-	-	-	-					
	Publication and Repro.	Actual	51.50	51.50	150.50	201					
Deleuw, Cather & Company	Admin. and Acctg.	Actual	18.00	18.00	-	11					
	Technical	Actual	-	-	-	-					
Dillingham Construction, Inc.	Technical	Actual	-	-	-	-					
Subtotal			148.50	148.50	250.50	391					
Grand Total	Plan	3,143.00	3,143.00	7,615.00	10,752,317.00	99,905.00	12,316.00	112,221.00	12,270.00	124,491.00	
	Actual	1,578.25	1,578.25	4,757.50	6,331						

Manhours by
Functional Department



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VI. SUMMARY OF ACTIVITIES PERFORMED IN DECEMBER

A. Administration and Accounting

- (1) Brought one Civil Engineer on board.
- (2) Prepared requisitions and submitted resumes and salaries to the RTD for approval of a Utilities Engineer and an Estimator.
- (3) Submitted the revised Administration Procedures Manual to the RTD for approval.
- (4) Received six Panasonic memory typewriters and instructed secretaries in their use.
- (5) Received three leased automobiles for PDCD use; the fourth vehicle is due. Two additional vehicles have been approved and POs have been issued.
- (6) Completed inputting accounting data for cost reporting through November 30. The system will be on a current updating status by the second week of January.
- (7) Reformatted the Project Cost Statement in LOTUS format - system is in use.
- (8) Signed the lease on December 17, 1984 for the downtown office location, 600 South Spring Street.

B. Quality Assurance

- (1) Met with RTD to discuss and resolve comments on the Standard Technical Specifications and the manuals for Project Administration, Construction Safety and Security, Construction Operations, and Organization and Responsibilities.

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- (2) Incorporated additional RTD comments and resubmitted to the RTD the revised manuals for Construction Operations, Inspector Guidelines, Safety and Security, and Project Administration Procedures.
- (3) Completed submittal of the Standard Technical Specifications, review comments and the review comments of the final Invitation to Bid documents.
- (4) Completed the rewrite of the Quality Assurance and Quality Control Manual. Began internal review.

C. Equal Opportunity Administration

- (1) Attended the Los Angeles Unified School District Advisory Committee's meeting on December 5 to plan ways to involve young women in nontraditional Metro Rail positions.
- (2) Attended the Mexican American Legal Defense and Education Fund (MALDEF) awards dinner on December 5, in a effort to stimulate DBE/WBE Metro Rail involvement.
- (3) Attended a meeting and reception of elected women policymakers at the Los Angeles City Hall on December 17, sponsored by the Mayor's Office as part of the Metro Rail Community involvement in an effort to further the achievement of DBE/WBE goals.
- (4) Attended the RTD TRACS management overview training session.
- (5) Represented PDCD at a USC reception on December 13 honoring two members of the RTD Board of Directors, Ms. Carmen Estrada and Mr. Norman Emerson.
- (6) Continued our community outreach efforts to disseminate information to individuals and companies regarding contract opportunities on the Metro Rail Project.
- (7) Completed a draft Project Affirmative Action Plan.

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D. Contracts and Procurements

- (1) Received district approval and executed subcontracts with Jacobs Associates, Engineering-Science Inc., and Martin & Huang International.
- (2) Submitted comments on RTD's Invitation to Bid package for A-740, systemwide procurement.
- (3) Issued subcontract amendments to Dames & Moore and Hayakawa.
- (4) Continued negotiation with NPCC to resolve questions concerning insurance, labor classification, and anticipated level of participation.
- (5) Accepted delivery of three automobiles; expect the fourth to be delivered before the end of the month.
- (6) Issued a PO for two additional automobiles to be delivered in February.
- (7) Prepared a draft of Amendment 2 to Prime Contract.
- (8) Met with the RTD's insurance consultant to discuss OCIP and a waiver on subcontractor/consultant insurance requirements.

E. Community Relations

- (1) Attended RTD's Benefit Assessment Policy Task Force meeting and the public hearings on the Benefit Assessment Districts.
- (2) Attended the TRACS orientation session.
- (3) Submitted responses to RTD'S comments on the Community Relations Procedures Manual.
- (4) Submitted comments on the community relations sections of the General Conditions for Contract Specifications and Contract A-142.

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- (5) Attended RTD's meeting with the United Community & Housing Development Corporation to discuss business development prior to and during construction of the Metro Rail in the Fairfax and Hollywood areas.

F. Safety and Security

- (1) Participated in the biweekly Fire, Life, and Safety Committee meeting with the RTD, LAPD, County Sheriff, RTD Police and Fire, and Los Angeles Fire Department.
- (2) Met with RTD's Insurance Administrator and reviewed insurance coverage and safety and security programs.
- (3) Reviewed agreements between agencies involving security staff and possible overlapping of responsibilities.
- (4) Attended workshop with RTD Police, LAPD and County Sheriff's offices to develop contractor security needs during course of construction of each bid package.
- (5) Resubmitted the Construction Safety and Security Manual incorporating additional RTD comments.

G. Construction Operations

G.1 General Activities

- (1) Incorporated RTD's comments in the Construction Operations Procedures Manual.
- (2) Attended the TRACS session for management overview.
- (3) Assisted the RTD in efforts to obtain a variance to LA City's "soldier pile cutoff and tie-back detensioning" requirements.
- (4) Contributed to the RTD/MRTC/PDCD underpinning and instrumentation studies.

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- (5) Reviewed and commented on:
 - (a) Standard Technical Specifications
 - (b) Invitation to Bid Package
 - (c) Insurance Specifications
 - (d) Contract Packaging
 - (e) Phasing Plan for Amtrak Baggage Facilities
 - (f) Design Review Drawings and Specifications
- (6) Coordinated temporary construction decking structural requirements with utility relocation criteria.
- (7) Prepared a Staffing Plan for the MOS-1 Design & Construction Schedule.

G.2 Systems Integration

- (1) Reviewed yard construction documents for impact on the Yard Traction Power Substation in the event that only a partial yard is built for MOS-1.
- (2) Continued participation in train control meetings with MRTC, RTD, and the industry signal companies.
- (3) Attended an MRTC presentation on procurement options highlighting the one-step and two-step methods.
- (4) Continued participation in construction packaging and scheduling for MOS-1.

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G.3 General Services

A. Utilities

- (1) Reviewed and commented on Plans and Specifications for Utilities and Civil Work on Contract A-165, 7th/Flower Station, Stage 1, 85%.
- (2) Prepared a detailed construction schedule and sequence description of utility company work for A-142, Civic Center Excavation.
- (3) Prepared a Layout Composite Plan for the Santa Fe Railroad Yard area and identified existing utilities.
- (4) Reviewed the Final Utility Rearrangement Plan for 5th/Hill Station (dated 11/21/84) and transmitted comments to the RTD and MRTC.
- (5) Reviewed the initial utility relocation plan for Wilshire/Normandie Station, A-220, and transmitted comments to the RTD and MRTC.
- (6) Attended a meeting at MRTC to review PDCD comments on the Standard drawings for temporary support of utilities.
- (7) Attended a meeting at MRTC with utility companies to review initial utility relocation plan for Wilshire/Normandie Station, A-220.

B. Permits

- (1) Updated the tabulation of permits required by the City of LA for Metro Rail Construction. Distributed copies to members of the CM staff and the RTD.
- (2) Continued to collect City of LA and State of California permit data.
- (3) Prepared a tabulation of permits to be required for all work at the Civic Center Excavation, A-142.

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C. Traffic Control

- (1) Obtained street plans and a traffic analysis of the MOS-1 route from LA Department of Traffic.
- (2) Reviewed the Worksite Traffic Control Plan for the Civic Center Excavation, A-142.
- (3) Reviewed the City of LA Haul Route requirements for Metro Rail.

D. Surveys

- (1) Reviewed contract documents for potential survey conflicts.
- (2) Submitted requisitions for survey equipment and personnel requirements.
- (3) Defined the scope of the survey responsibility.
- (4) Familiarized new personnel with the MOS-1 route.
- (5) Prepared a preliminary schedule of survey activities for A-142.

E. Environmental Control/Monitoring

- (1) Reviewed contract general conditions, specifications, and drawings sets for MOS-1 design packages to ensure appropriate environmental controls and monitoring.
- (2) Studied geologic relationships of sulfurous and hydrocarbon gases at MOS-1 stations.
- (3) Evaluated paleontological occurrences at MOS-1 stations and associated mitigation measures during drilling of piles.
- (4) Reviewed testing plans for archaeological resources during pile drilling and trenching.

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- (5) Further developed the Environmental Control Plan and Premonitoring Survey Plan focusing on detailed development for the initial Mos-1 projects.
- (6) Recommended use of IBM PCAT system for environmental data base management and for evaluation of construction activities.
- (7) Evaluated noise-vibration data base for ambient conditions in MOS-1.

G.4 Zone Construction Management

- (1) Assisted MRTC in development of a MOS-1 Baseline Schedule.
- (2) Continued participation in reviews.
- (3) Reviewed construction rights-of-way for adequacy of contractor laydown areas.

H. Engineering Services

- (1) Eleven MOS-1 constructibility reviews were completed in December covering contracts A-112, A-135, A-136, A-142, A-165, A-167, A-170A, and A-187. The majority of these were 85% reviews; A-112, and A-187 were 100% reviews.
- (2) Three follow-on designs were scheduled for review in December but were postponed to January in order to give priority to MOS-1 contracts.
- (3) Comments on the A-140 Value Engineering report and on the Corrosion Control Standards were also completed and submitted in December.
- (4) A number of meetings with RTD were attended to resolve questions on design review comments.
- (5) The search for two Systems Engineers continued; the positions remain open.

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J. Project Controls

- (1) Participated in construction schedule meetings with MRTC to establish a joint MOS-1 baseline schedule.
- (2) Reviewed the scheduling sections of the Technical Specifications and worked jointly with the RTD to rewrite these sections.
- (3) Conducted a preliminary review of the MOS-1 construction cost estimate November 30 and submitted comments to the RTD.
- (4) Evaluated estimating software packages for potential assistance in preparation of PDCD construction check estimates.
- (5) Prepared a forecast of the anticipated CM annual expenditures for MOS-1.
- (6) Submitted additional comments on the Standard General Conditions.
- (7) Met with the RTD to finalize Construction Performance Report formats and set up a plan for benchmarking TRACS with a sample contract (A-114) using the budgeting, scheduling, progress payments, change order, and procurement modules. Initial data was loaded into the budgeting module; interface with MSCS and report production awaits additional coordination with the RTD.
- (8) Prepared presentation material for the Joint Venture Executive Board Meeting.
- (9) Completed estimate reviews on contracts A-135 (60%), A-140 (60%), A-145 (60%), A-165 (60%), A-170 (60%), and A-175 (85%).
- (10) Assisted the RTD in developing and programming the CM services reporting system using the RTD MRCS report writer. Past data will be input following programming of the preprocessor.
- (11) Prepared scheduling and estimating analysis of the Yard and Shop areas.

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- (12) Set up the Document and Material Control System (DMCS) on the Prime 750 Supermini computer to aid in statusing and tracking the flow of documents on the project.
- (13) Formatted a cost estimate status report and the PDCD Procedure Manual Status report on the IBM computer.
- (14) Continued gathering information to establish a PDCD reference library.

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VII. ACTIVITIES PLANNED IN JANUARY

A. Administration and Accounting

- (1) Schedule an initial training program for additional personnel on the DECmate WP and schedule advanced training on the DECmate WP for personnel who have completed initial training.
- (2) Continue providing assistance in the preparation of personnel requisitions, submission of qualifications to the RTD for approval, staffing and relocation, preparation of TAs, review of expense reports and maintenance of personnel records.
- (3) Update accounting data and begin producing reports at the current activity level.
- (4) Initiate training of accounting personnel on the IBM PC.
- (5) Issue a procedure for mail handling and control.
- (6) Begin planning for relocation to downtown office.
- (7) Review and complete list of furnishings and equipment required for downtown office and submit a proposal to RTD.

B. Quality Assurance

- (1) Submit the QA and QC Manual for RTD approval pending the RTD's resolution of the Contractor QC issue.
- (2) Meet with RTD QA (and Booz Allen) to discuss PDCD support of RTD QA activities with regard to systemwide contracts and QA and QC Manual comments.
- (3) Complete submittal and, upon final approval from the RTD, publish and distribute CM manuals.
- (4) Begin developing QA Checklists and an Audit Schedule.

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C. Equal Opportunity Administration

- (1) Prepare the written materials for the EO training session for PDCD management and the supervisory staff.
- (2) Submit the final copy of the Affirmative Action Plan to the RTD for review.
- (3) Plan a meeting for the Joint Venture team's subcontractors regarding affirmative action and the DBE/WBE program.
- (4) Continue our community outreach activities to disseminate information to individuals and companies regarding contract opportunities on the Metro Rail Project.

D. Contracts and Procurement

- (1) Award consulting agreements to A.A. Matthews, W.D. Alexander and R.H. Heuer.
- (2) Conclude negotiations with NPCC and execute the subcontract.
- (3) Execute the CPFF subcontract already negotiated with Randolph & Tate or negotiate a time and expense (labor hour) type of subcontract, pending the RTD's decision.
- (4) Complete the Resident Engineer Manual and the Procurement Manual upon the RTD's resolution of the role of Contract Administration versus Resident Engineer.
- (5) Submit and negotiate the proposed Amendment 2 to the contract incorporating Phase 2 Construction into the First Annual Work Plan for MOS-1.

E. Community Relations

- (1) Review technical reports on archaeological and paleontologic resources.
- (2) Review RTD's Joint Development Report for the community.

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- (3) Develop a community relations program for the PDCD training/orientation session.
- (4) Continue to review community issues and mitigation measures.
- (5) Attend community meetings in conjunction with the RTD as needed.

F. Safety and Security

- (1) Continue participation in biweekly Fire, Life, and Safety Committee meetings with the RTD, LAPD, County Sheriff, RTD's Police and Fire, and the Los Angeles Fire Department.
- (2) Continue meeting with the RTD's Insurance Administrator to review insurance coverage and safety and security programs.
- (3) Continue to review agreements between agencies involving security staff and possible overlapping of responsibilities.
- (4) Attend future workshops with the RTD's Police, LAPD, and County Sheriff's offices to develop contractors security needs during course of construction of each bid package.
- (5) Attend the Mine Rescue course in Idaho to further determine our needs and requirements for the rescue team.
- (6) Publish the Construction Safety and Security Manual upon RTD's approval.

G. Construction Operations

G.1 General

- (1) Continue participation in reviews for design constructibility.

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(2) Participate in followup actions for:

- (a) Soldier pile cutoff and detentioning of tie backs
- (b) Underpinning
- (c) A-142 Work Plan

G.2 Systems Integration

- (1) Participate in the constructibility review of the A-630 Traction Power Procurement prefinal document.
- (2) Continue participation to finalize MOS-1 Schedule.
- (3) Continue coordination of interface requirements for various systemwide elements.

G.3 General Services

A. Utilities

- (1) Finalize the Utility Relocation Plan and Sequence Schedule for Civic Center Excavation, A-142.
- (2) Prepare detailed Utility Relocation Plans and Schedules for all station contracts in MOS-1.
- (3) Review the results of the depth of temporary decking analysis with the RTD and MRTC.
- (4) Continue constructibility reviews of utility concepts plans for locations in the 18-mile segment.

B. Permits

- (1) Finalize all MOS-1 Permit Requirements by public agencies and transmit to the RTD.
- (2) From Permit data base, prepare tabulations for specific contracts on MOS-1 route.



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C. Traffic Control

- (1) Review computer software programs to determine the impact of street closures and diversions in the downtown urban areas.
- (2) Develop a street grid base map for MOS-1.
- (3) Continue to review specific worksite Traffic Control Plans for MOS-1 station locations.

D. Surveys

- (1) Obtain survey equipment previously requisitioned.
- (2) Bring survey personnel on board.
- (3) Verify the condition of survey control monumentation.
- (4) Prepare a survey procedure, define survey requirements, and identify survey standards.
- (5) Finalize the A-142 Survey Activities Schedule.

E. Environmental Controls/Monitoring

- (1) Develop a detailed environmental control and monitoring plan for Stage I of the Civic Center, 5th/Hill, and 7th/Flower Stations.
- (2) Continue Premonitoring Survey; collect and review ambient air quality data.
- (3) Evaluate boring and gas data as it becomes available.
- (4) Evaluate truck haul routes and RTD-recommended disposal sites for excavation debris.

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G.4 Zone Construction Management

- (1) Continue constructibility reviews of design packages.
- (2) Bring one Resident Engineer and one Office Engineer on board when construction funds are available.
- (3) Continue to assist MRTC in developing a joint MRTC/PDCD MOS-1 baseline schedule.

H. Engineering Services

- (1) Review packages A-195, A-220, A-275, A-140, A-610, and A-630 scheduled for January receipt.
- (2) Review the 85% A-133 Baggage Handling Facility drawings and specifications to be completed in early January.
- (3) Review Traction Power Station.
- (4) Review the seismic restraint drawings, under vehicle spray system, corrosion control drawings, structural standards on break outs and cross passages and A-165 excavation support studies.
- (5) Add an architect to the staff in accordance with the Annual Work Plan.

J. Project Controls

- (1) Complete analysis and inputs to MRTC on a joint MOS-1 baseline schedule.
- (2) Continue reviews of design estimates for contracts A-187 (60%), A-195 (85%), A-220 (60%), A-240 (60%), A-275 (60%), A-630 (60%), A-640 (60%), A-650 (60%), and A-690 (60%).
- (3) Submit a plan to RTD for preparation of construction cost estimates and supporting software and hardware.

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- (4) Proceed with benchmarking of TRACS using sample contract A-114 and make necessary modifications to facilitate the use of the TRACS modules.
- (5) Following RTD programming of the data proprocessor, input CM cost data to the newly programmed CM Services performance reports.
- (6) Receive DMCS hardware; code documents for input to the computer.

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VIII. AREAS OF CONCERN

1. Clarification of the role of Contract Administration versus Resident Engineer in Management/Administration of construction contracts.
2. Resolution of application of Contractor Quality Control.
3. Underpinning of structures, especially at Hill and 7th St.
4. Scope of work, schedule and estimated costs for utility work at 5th/Hill and 7th/Flower.
5. Implementation and check out of TRACS to provide required project controls.

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APPENDIX



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Subcontractor	NTP Issued	Negotiated Subcontract	Consent Submitted	Consent Approved
BPES	8/27/84	9/13/84	10/5/84	11/15/84
CCSC	8/20/84	9/18/84	10/1/84	11/9/84
Dames & Moore	9/20/84	10/8/84	10/15/84	11/8/84
Engineering-Science	9/18/84	11/9/84	11/28/84	12/26/84
Hayakawa	9/7/84	9/19/84	9/21/84	11/19/84
Jacobs	9/21/84	10/25/84	10/29/84	12/11/84
Jenkins, Gale & Martinez	8/28/84	10/12/84	10/17/84	11/8/84
Martin & Huang	9/4/84	10/29/84	10/31/84	12/10/84
NPCC				
Ochoa and Sillas	N/A	11/15/84	11/26/84	
Randolph & Tate	9/25/84	11/19/84	11/20/84	
Vanir	8/22/84	8/30/84	9/27/84	11/8/84

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CONSULTANT STATUS

Consultant	NTP Issued	Executed Subcontract	Consent Submitted	Consent Approved
A.A. Matthews				
R.H. Heuer				
J.P. Gould	11/21/84			
W.D. Alexander				

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