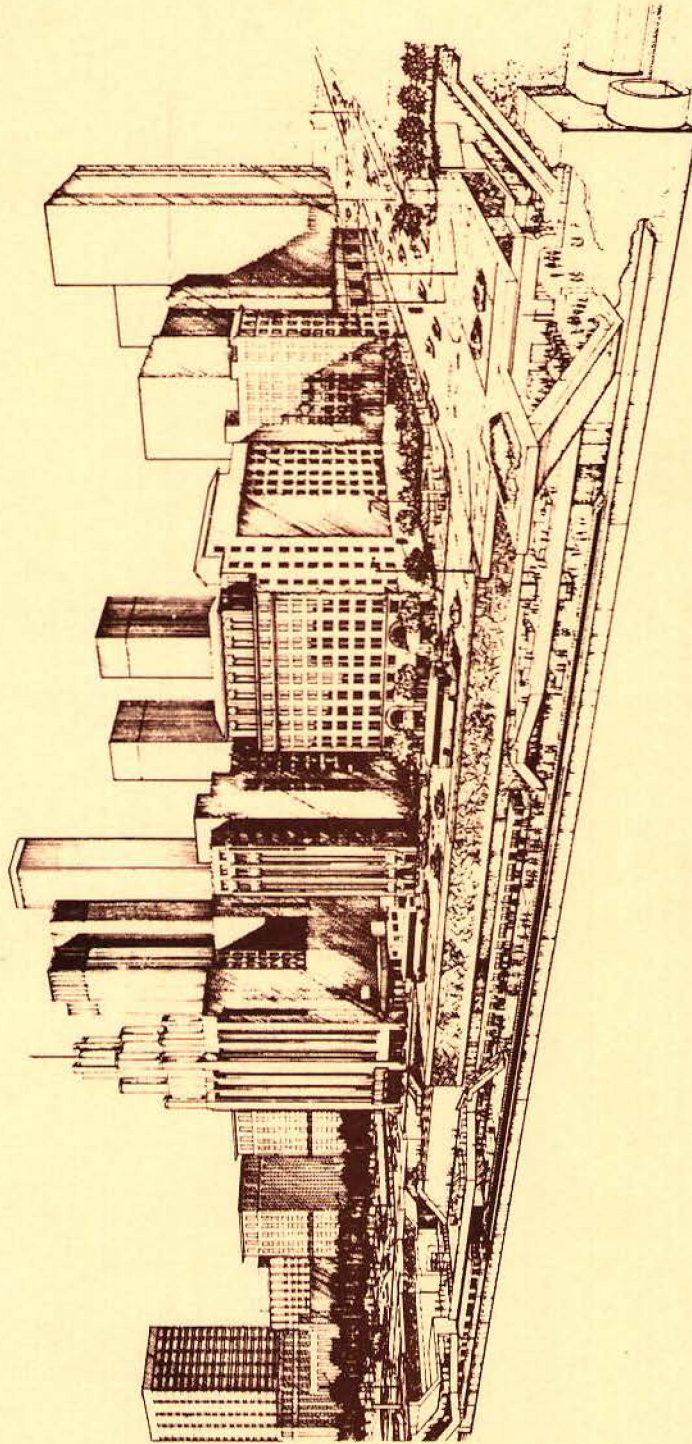


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LOS ANGELES **METRO RAIL** PROJECT MONTHLY CONTRACT PERFORMANCE REPORT



REPORT NUMBER 2
AUGUST 1984

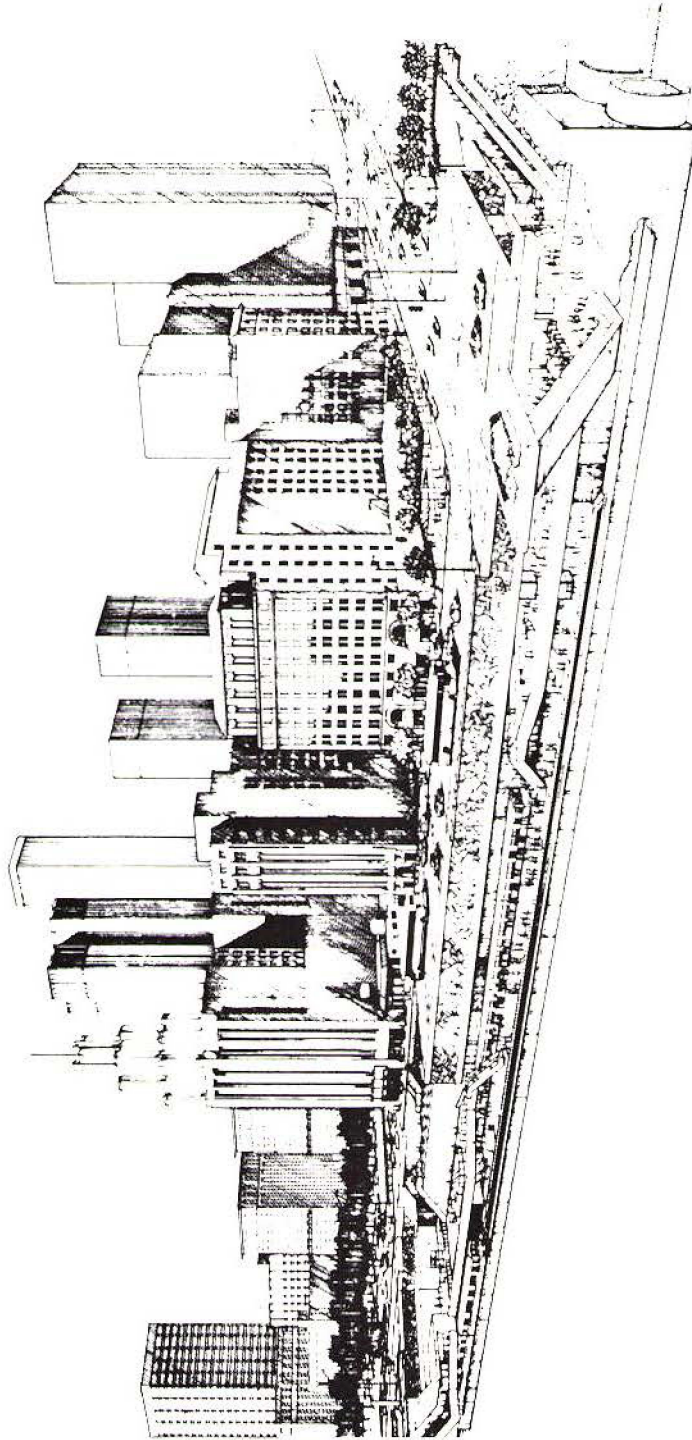
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A JOINT VENTURE OF THE RALPH M. PARSONS COMPANY, DILLINGHAM CONSTRUCTION, INC. AND DE LEUW, CATHIER & COMPANY



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

RTD



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REPORT NUMBER 2
AUGUST 1984

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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 CONTRACT PERFORMANCE REPORT

PDCD

PERIOD AUGUST, 1984

FOREWORD

This second monthly Contract Performance Report covers work activities for the reporting month of August, 1984, covering July 30 to August 31. Now that the First Annual Work Plan has been approved establishing a performance baseline, more tabular data is included. The CM is still in the process of establishing the format and content of this report, and some of the charts are in draft form. We welcome comments on this report and expect further discussions on its format. Recognizing that RTD has a limited time to review this report and PDCD a limited time to prepare it, our goal is to provide necessary information in an easily interpreted format that is easily prepared from the CM's normal documentation.



**LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT**

PDCD

PERIOD AUGUST, 1984

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LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD AUGUST, 1984

I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

Considerable progress was made during the CM's second month of operation in terms of definitizing the work scope on a departmental level filling staff positions, working with the RTD staff and deepening our involvement in the project.

Thirteen positions were filled during August bringing the total to 34. Limited Notices to Proceed were issued to 3 of the 12 subcontractors and 7 of the newly filled positions were from subcontractors. The current staff mix by company is as follows:

<u>Company</u>	<u>Staff Level</u>
Parsons	18
Dillingham	3
De Leuw, Cather	6
Better Personnel Employment Services	4
Construction Control Services Corp.	2
Vanir Construction Management, Inc.	1

Total 34

Within this staff the minority goal of 17% was exceeded by 18% and the woman goal of 3% was exceeded by 12%.



LOS ANGELES METRO RAIL

CONTRACT PERFORMANCE REPORT

PDCD

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Three constructibility reviews were completed on schedule in August, as well as comments on the standard "Invitation to Bid" and the "General Conditions." The Tunnel Liner Study was submitted on schedule, and initial comments were provided on construction sequencing of Union Station. Considerable progress was made on the development of CM procedures which are on schedule for draft submittal to RTD in September.

The First Annual Work Plan and Amendment No. 1 to the Contract, limiting work to preconstruction tasks, were approved by the RTD Board of Directors, providing a baseline for preparing cost and schedule performance documents.

PDCD experienced a cumulative cost overrun of \$153,000 at the end of August, resulting from a slower than planned assignment of personnel to the project; these delays, however, have been consistent with the delayed NTP and finalization of other documents and subcontracts.

By the end of August, two terminal controllers, a temporary 2400 baud modem and communication line were installed, making TRACS operational. A printer was subsequently delivered. The system has been intermittently operational, but appears to now be debugged. The modem and printer are temporary pending delivery of requisitioned items.

A third potential location for permanent downtown office space was identified. An improvement cost estimate and lease term for this space is being prepared, which will be submitted to RTD in September along with the other two lease proposals.

During September the CM expects to execute the remainder of subcontracts, continue development of purchasing, test TRACS and begin training, begin review and development of construction schedules, provide continued constructibility guidance on key TRACS-1 contracts, bring in a specialized task force to review the standards, criteria and directive drawings, and in general broaden our involvement in construction aspects of Metro Rail.

Our one area of concern is the level of completion of the design packages submitted for our review has generally been insufficient to provide complete constructibility comments.



**LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT**

PDCD

PERIOD AUGUST, 1984

II. MANPOWER PERFORMANCE:

Project staffing increased by 13 during August, bringing the total to 34. Figure 1 gives a status of planned personnel versus actual as of August 31, 1984.

A total of 4,758 manhours were expended during August producing an equivalent manpower of 24. (See Figure 2.)



LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

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PERIOD AUGUST, 1984

FIGURE 1
CONSTRUCTION MANAGERIAL
MANPOWER STATUS
ROSTER COUNT AS OF 8/31/84

POSITION	PLANNED	ACTUAL	VARIANCE
Construction Manager	1	1	-
Secretarial/Clerical	1	2	1
	<u>2</u>	<u>3</u>	<u>1</u>
Subtotal			
Administration and Staff Support			
Deputy	1	1	-
Manager, Project Administration	1	1	-
Office Manager	1	1	-
Senior Accountant	1	0	(1)
Personnel Administrator	1	1	-
Manager - Safety	1	1	-
Manager - Quality Assurance	1	1	-
Secretary/Word Processor	1	2	1
Manager, Community Relations	1	0	(1)
EEO Administrator	1	1	-
	<u>10</u>	<u>9</u>	<u>-</u>
Subtotal			
Engineering Services/Project Controls			
Deputy	1	1	-
Manager, Project Controls	1	1	-
Lead Estimator	1	0	(1)
Estimator	1	0	(1)
Lead Cost Engineer/Analyst	1	1	-
Cost Engineer/Analyst	1	1	-
Lead Planner/Scheduler	1	1	-
Sr. Planner Scheduler	1	1	-
Lead Document Control Specialist	1	1	-
Manager, Contracts/Procurement	1	1	-
Contract Administrator	1	1	-
Procurement Specialist/Inspector	1	1	-
Secretary	1	1	-



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

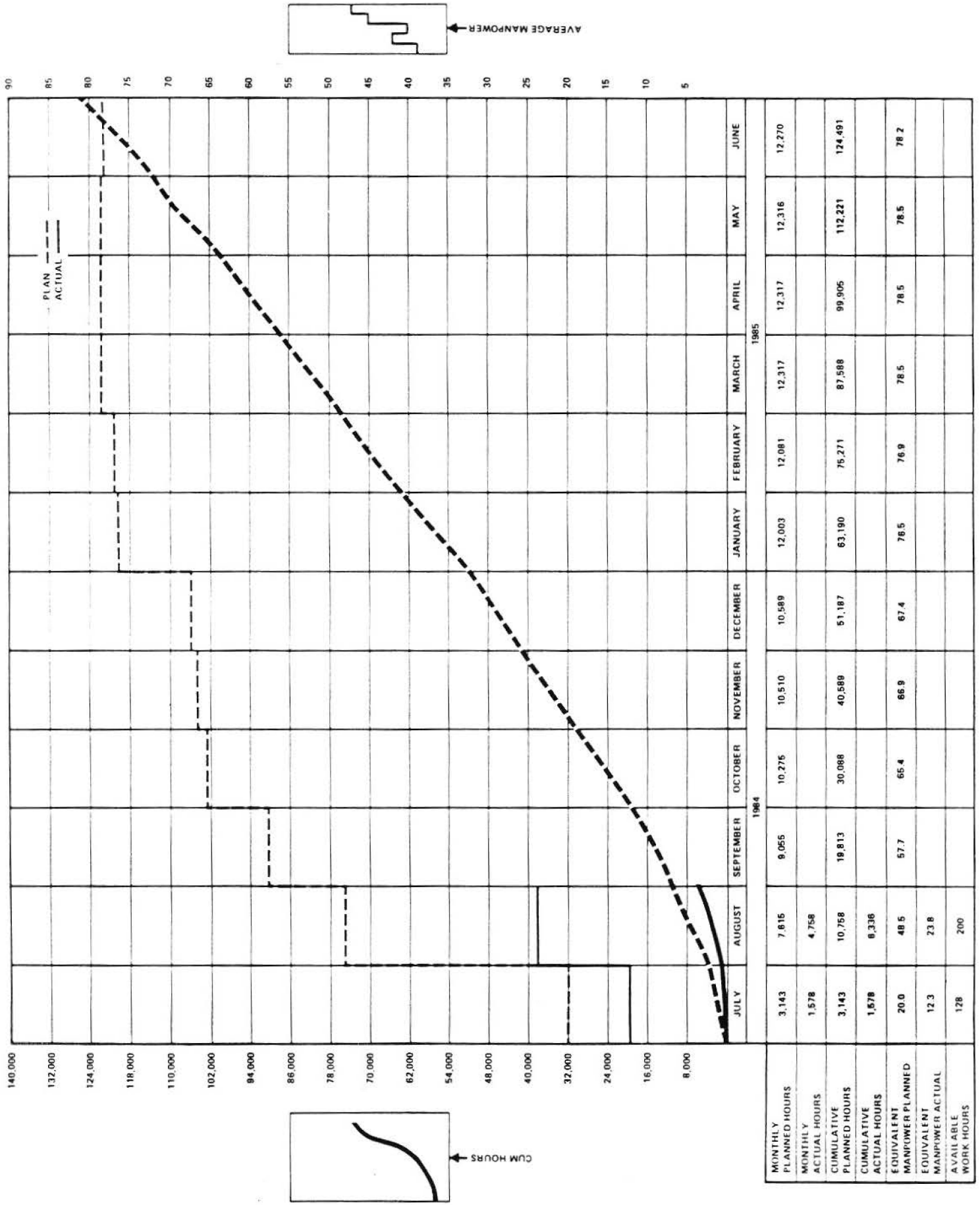
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PERIOD AUGUST, 1984

FIGURE 1, continued

POSITION	PLANNED	ACTUAL	VARIANCE
Manager, Engineering Services	1	1	-
Lead Geotechnical Engineer	1	1	-
Lead Electrical Engineer	1	1	-
Electrical Engineer	1	1	-
Lead Civil Structural Engineer	1	0	(1)
Civil Structural Engineer	1	0	(1)
Lead Architect	1	0	(1)
Lead Mechanical Engineer	1	0	(1)
Mechanical Engineer	1	0	(1)
Lead Systems Engineer	1	0	(1)
Systems Engineer	1	0	(1)
Clerical	1	1	-
Subtotal	25	16	(9)
Planning	1	1	-
Deputy CM			
Operations	1	1	-
Deputy CM	1	2	1
Secretary/Clerical	1	1	-
Manager, General Services	1	0	(1)
Lead Utilities Engineer	1	0	(1)
Chief of Surveys	1	1	-
Lead Traffic Coordinator	1	0	(1)
Lead Pre-Construction Surveys	1	0	(1)
Lead Environmental Monitoring/Permit Engineer	1	0	(1)
Zone CM	1	0	(1)
Manager, Systems Integration	1	0	(1)
Subtotal	19	5	
TOTAL	48	34	(14)

FIGURE 2





LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

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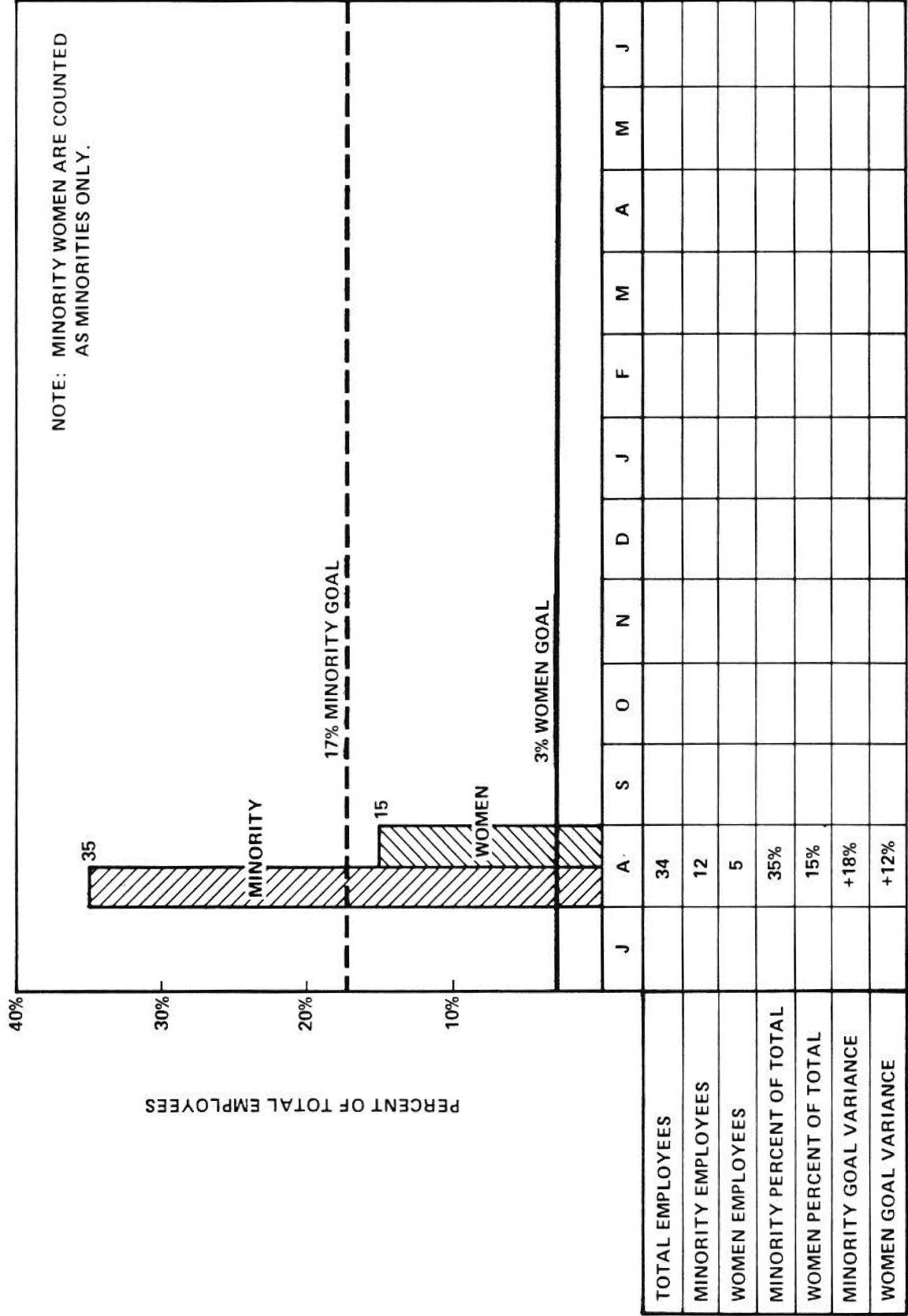
PERIOD AUGUST, 1984

III. EEO PERFORMANCE

The CM contract has established a DBE/WBE goal of 20% based on the dollar value of the contract over the term of the contract. The goal is divided into 17% for DBE's and 3% for WBE's. The subcontractors are only beginning to be brought on board and the DBE/WBE rates accordingly are quite low.

DBE	4%
WBE	1%

The affirmative action goals are 17% for minorities and 3% for women. By the end of August, these goals were significantly surpassed with minorities at 35% of total employment and women at 15% of total employment. (Figure 3.)





**LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT**

PDCD

PERIOD AUGUST, 1984

IV. SCHEDULE PERFORMANCE

Three design packages were received for constructibility review during August. All review comments were returned within the two-week review schedule. Figure 4 summarizes the design package review schedule of activities for August and September. Figure 5 summarizes the review status of all design packages.



LOS ANGELES METRO RAIL
CONTRACT PERFORMANCE
REPORT

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PERIOD _____

FIGURE 4
DESIGN PACKAGE REVIEW SCHEDULE
AUGUST & SEPTEMBER 1984

Contract #	Planned % / Date	Actual Recv'd/Out	Remarks/Action	September Look-Ahead Planned Review/Date
114	-	-		100% (9/12)
115	-	-		60% (9/12)
116 (was 112)	-	-		85% (9/19)
130 114 15	-	-		60% (9/ 6)
142	60% (7/18)	Recv'd 8/8-Out 8/15	To be resubmitted	-
144	60% (8/03)	-	Not received	-
147	60% (8/03)	-	Not received	-
157	60% (8/03)	-	Not received	-
187	-	-		85% (9/30)
195	85% (8/03)	Recv'd 8/8-Out 8/31		-
197	-	-		85% (9/23)
220	60% (8/27)	Recv'd 8/31	Review in progress	85% (12/13)
237	60% (8/25)	-	Not received	-
240	-	-		60% (9/15)
242	-	-		60% (9/15)
245	60% (5/09)	Recv'd 7/26	Reference only	85% (9/19)
247	60% (5/09)	Recv'd 7/26		85% (9/19)
275	60% (6/30)	Recv'd 7/26	Reference only	85% (9/29)
350	-	-		60% (9/12)
352	-	-		60% (9/12)
410	60% (7/15)	Recv'd 8/8-Out 8/24		-
425	60% (8/17)	Recv'd 8/21	Review in progress	-
427	60% (8/19)	-	Not received	-
430	60% (8/08)	Recv'd 8/8	Reference only	-
445	-	-		60% (9/22)
447	-	-		60% (9/22)

★ S NOT RECEIVED ★

[illegible]

Received from SCRTD

Submittal to SCRTD

CM SERVICES IN-HOUSE SCHEDULE

DESCRIPTION	RESPON- SIBILITY	JULY				AUGUST					SEPTEMBER					OCTOBER					REMARKS
		6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26	2		
C.M. PROCEDURES :																				CONTRACT REQUIREMENT	
1) C.M. ORGANIZATION																					
ESTABLISH O&M OF																					
2) DOWNTOWN OFFICE																					
MANAGEMENT OF																					
3) CONST. CHANGES																					
4) QUALITY ASSURANCE																					
5) PERMITS & LICENSES																					
COORD. BETWEEN																					
6) CONTRACTORS																					
7) SAFETY MONITORING																					
COORDINATE UTILITIES																					
8) & TRAFFIC																					
CONFIGURATION																					
9) CONTROL																					
10) SAFETY PLAN																					
RESIDENT ENGINEERS																					
11) MANUAL																					
12) STAFFING PLAN																					
13) COST & SCHEDULING																					
14) PROCUREMENT MANUAL																					
PROJECT CONTROL																					
15) MANUAL																					
OTHERS AS REQUIRED																					
16) BY CM																					

○ DRAFT TO RTD
 △ FINAL SUBMITTAL TO RTD

MINIMUM OPERABLE SEGMENT (PHASE I) DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	JULY				AUGUST				SEPTEMBER				OCTOBER			
DESIGN	CONST.					6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19
A100	A114	MAINTENANCE OF WAY (MOW) SHOP BUILDING		DESIGN REVIEW	ACTUAL/ FORECAST																
				COST ESTIMATE REVIEW	BASLINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																
				BID DOCUMENT REVIEW	BASLINE																
	A115	STORAGE YARD		DESIGN REVIEW	ACTUAL/ FORECAST																
				COST ESTIMATE REVIEW	BASLINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																
				BID DOCUMENT REVIEW	BASLINE																
	A116 (was A112)	SERVICE AREA & MAIN SHOP BUILDING		DESIGN REVIEW	ACTUAL/ FORECAST																
				COST ESTIMATE REVIEW	BASLINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																
				BID DOCUMENT REVIEW	BASLINE																
	A130	YARD LEADS & TRANSFER ZONE		DESIGN REVIEW	ACTUAL/ FORECAST																
				COST ESTIMATE REVIEW	BASLINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																
				BID DOCUMENT REVIEW	BASLINE																
A135	A135	UNION STATION AND CROSSOVER STAGE I		DESIGN REVIEW	ACTUAL/ FORECAST																
				COST ESTIMATE REVIEW	BASLINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																
				BID DOCUMENT REVIEW	BASLINE																
	A136	UNION STATION AND CROSSOVER STAGE II		DESIGN REVIEW	ACTUAL/ FORECAST																
				COST ESTIMATE REVIEW	BASLINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																
				BID DOCUMENT REVIEW	BASLINE																

LEGEND

DATA DATE

ACTUAL

SCHEDULED/
FORECAST

REVIEW STATUS

30%

60%

85%

100%

ADVERTISE FOR BIDS

NOTICE TO PROCEED

NOTED REVIEW PERIOD

MRIC DESIGN SCHEDULE

SUBMITTAL TO RTD

MINIMUM OPERABLE SEGMENT (PHASE I)

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LEGEND

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REVIEW STATUS

30% ☐ 60% ☐ 85% ☐ 100% ☐

ADVERTISE FOR BIDS
NOTICE TO PROCEED
POC REVIEW PERIOD
MRTC DESIGN SCHEDULE
SURMITTAL TO RTD

MINIMUM OPERABLE SEGMENT (PHASE I) DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHED.	JULY					AUGUST					SEPTEMBER					OCTOBER				
DESIGN	CONST.					6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26	2		
A170	A170	WILSHIRE/ALVARADO STATION STAGE I		DESIGN REVIEW	ACTUAL/FORECAST BASELINE																				
				COST ESTIMATE REVIEW	ACTUAL/FORECAST BASELINE																				
				BID DOCUMENT REVIEW	ACTUAL/FORECAST BASELINE																				
	A187	WILSHIRE/ALVARADO STATION STAGE II		DESIGN REVIEW	ACTUAL/FORECAST BASELINE																				
				COST ESTIMATE REVIEW	ACTUAL/FORECAST BASELINE																				
				BID DOCUMENT REVIEW	ACTUAL/FORECAST BASELINE																				
				DESIGN REVIEW	ACTUAL/FORECAST BASELINE																				
				COST ESTIMATE REVIEW	ACTUAL/FORECAST BASELINE																				
				BID DOCUMENT REVIEW	ACTUAL/FORECAST BASELINE																				
				DESIGN REVIEW	ACTUAL/FORECAST BASELINE																				
				COST ESTIMATE REVIEW	ACTUAL/FORECAST BASELINE																				
				BID DOCUMENT REVIEW	ACTUAL/FORECAST BASELINE																				
				DESIGN REVIEW	ACTUAL/FORECAST BASELINE																				
				COST ESTIMATE REVIEW	ACTUAL/FORECAST BASELINE																				
				BID DOCUMENT REVIEW	ACTUAL/FORECAST BASELINE																				

LEGEND

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REVIEW STATUS

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SUBMITTAL TO RTD

ADVERTISE FOR BIDS

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MRTC DESIGN SCHEDULE

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FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	JULY							AUGUST							SEPTEMBER							OCTOBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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A195	A195	WILSHIRE/VERMONT STATION STAGE I		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

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ADVERTISE FOR BIDS
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FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)

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REVIEW STATUS

30% ☐ 60% ☐ 85% 100%

⊕ ADVERTISE FOR BIDS
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— FOLD REVIEW PERIOD
— MRTC DESIGN SCHEDULE

— SUBMITTAL TO RTO

FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	JULY				AUGUST				SEPTEMBER				OCTOBER				
DESIGN	CONST.					6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26
A275	~/A	FAIRFAX/BEVERLY STATION STAGE II		DESIGN REVIEW	ACTUAL/ FORECAST																	
				COST ESTIMATE REVIEW	BASELINE																	
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																	
					BASELINE																	
A310	A310	FAIRFAX/SANTA MONICA STATION & LABREA/ SUNSET STATION & LINE STAGE I		DESIGN REVIEW	ACTUAL/ FORECAST																	
				COST ESTIMATE REVIEW	BASELINE																	
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																	
					BASELINE																	
A327	A327	FAIRFAX/SANTA MONICA STATION STAGE II		DESIGN REVIEW	ACTUAL/ FORECAST																	
				COST ESTIMATE REVIEW	BASELINE																	
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																	
					BASELINE																	
A347	A347	LABREA/SUNSET STATION STAGE II		DESIGN REVIEW	ACTUAL/ FORECAST																	
				COST ESTIMATE REVIEW	BASELINE																	
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																	
					BASELINE																	
A350	A350	HOLLYWOOD/CAHUENGA STATION STAGE I		DESIGN REVIEW	ACTUAL/ FORECAST																	
				COST ESTIMATE REVIEW	BASELINE																	
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																	
					BASELINE																	
A352	A352	HOLLYWOOD/CAHUENGA STATION STAGE II		DESIGN REVIEW	ACTUAL/ FORECAST																	
				COST ESTIMATE REVIEW	BASELINE																	
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST																	
					BASELINE																	

LEGEND

REVIEW STATUS
 ○ 30%
 □ 60%
 △ 85%
 ○ 100%
 ◇ SUBMITTAL TO RTO

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⬆ ADVERTISE FOR BIDS
 ⬆ NOTICE TO PROCEED
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 — MRIC DESIGN SCHEDULE

FOLLOW-ON SEGMENTS (PHASES 2, 3 & 4)

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○ SCHEDULED / FORECAST

◊ SUBMITTAL TO RTO

REVIEW STATUS

⊙ 30%

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⊕ ADVERTISE FOR BIDS

⊗ NOTICE TO PROCEED

▣ POCED REVIEW PERIOD

▬ MRTC DESIGN SCHEDULE

FACILITIES (DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON- SIBILITY	TASK	SCHED.	JULY			AUGUST			SEPTEMBER			OCTOBER						
DESIGN	CONST.					6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19
A610	A610	TRACKWORK-MAINLINE TRACKWORK		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A611	A611	TRACKWORK-RUNNING RAIL SPECIFICATIONS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A613	A613	TRACKWORK-TIMBER TIE SPECIFICATIONS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A614	A614	TRACKWORK-SPECIAL TRACKWORK DESIGN		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A616	A616	TRACKWORK-DIRECT FIXATION FASTNER SPECIFICATIONS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A617	A617	TRACKWORK-RAIL WELDING SPECIFICATIONS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																

LEGEND

— DATA DATE

○ ACTUAL

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△ FORECAST

REVIEW STATUS

○ 30%

□ 60%

△ 85%

○ 100%

◇ SUBMITTAL TO RTD

⊗ ADVERTISE FOR BIDS

⊗ NOTICE TO PROCEED

— POCD REVIEW PERIOD

— MRIC DESIGN SCHEDULE

FACILITIES (DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHED.	JULY				AUGUST				SEPTEMBER				OCTOBER			
DESIGN	CONST.					6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19
A618	A618	TRACKWORK-YARD TRACKWORK DESIGN		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A710	A710	ESCALATORS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A720	A720	ELEVATORS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A740	A740	EMERGENCY, MID-TUNNEL, UNDER PLATFORM FANS - MOTOR-UNITS, DAMPERS, AND SOUND ATTENUATORS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A745	A745	STATION AIR HANDLING UNITS, T.S.P.S. FANS, AND ROLL FILTERS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
A750	A750	TUNNEL LINERS		DESIGN REVIEW	ACTUAL/ FORECAST BASELINE																
				COST ESTIMATE REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																
				BID DOCUMENT REVIEW	ACTUAL/ FORECAST BASELINE																

LEGEND

30%
 60%
 85%
 100%
 SUBMITTAL TO RTO

DATA DATE

ACTUAL
 SCHEDULED
 FORECAST

REVIEW STATUS

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

FACILITIES

[illegible]

LEGEND

REVIEW STATUS

DATE DATE

30% 60% 85% 100% SURM.

○ □ △ ◇

ACTUAL
SCHEDULED
FORECAST

(A) ADVERTISE FOR BIDS
 (B) NOTICE TO PROCEED
 (C) PDCD REVIEW PERIOD
 (D) MRIC DESIGN SCHEDULE

SYSTEMS
(DESIGN, ESTIMATE AND BID DOCUMENT REVIEW SCHEDULE)

CONTRACT NUMBER		DESCRIPTION	RESPON-SIBILITY	TASK	SCHED.	JULY				AUGUST				SEPTEMBER				OCTOBER			
DESIGN	CONST.					6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19
A620	A620	AUTOMATIC TRAIN CONTROL		DESIGN REVIEW	ACTUAL / FORECAST																
				COST ESTIMATE REVIEW	BASELINE																
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																
				BID DOCUMENT REVIEW	BASELINE																
A640	A640	COMMUNICATIONS		DESIGN REVIEW	ACTUAL / FORECAST																
				COST ESTIMATE REVIEW	BASELINE																
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																
				BID DOCUMENT REVIEW	BASELINE																
A612 A615 A630 A631	A612 A615 A630 A631	TRACTION POWER		DESIGN REVIEW	ACTUAL / FORECAST																
				COST ESTIMATE REVIEW	BASELINE																
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																
				BID DOCUMENT REVIEW	BASELINE																
A650	A650	PASSENGER VEHICLE		DESIGN REVIEW	ACTUAL / FORECAST																
				COST ESTIMATE REVIEW	BASELINE																
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																
				BID DOCUMENT REVIEW	BASELINE																
A671 THRU A678	A671 THRU A678	AUXILIARY VEHICLES		DESIGN REVIEW	ACTUAL / FORECAST																
				COST ESTIMATE REVIEW	BASELINE																
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																
				BID DOCUMENT REVIEW	BASELINE																
A660	A660	FARE COLLECTION		DESIGN REVIEW	ACTUAL / FORECAST																
				COST ESTIMATE REVIEW	BASELINE																
				BID DOCUMENT REVIEW	ACTUAL / FORECAST																
				BID DOCUMENT REVIEW	BASELINE																

LEGEND

DATA DATE

ACTUAL

SCHEDULED /
FORECAST

REVIEW STATUS

30%

60%

85%

100%

SUBMITTAL TO RTD

⊙ ADVERTISE FOR BIDS

⊕ NOTICE TO PROCEED

▬ PDGD REVIEW PERIOD

▬ MRIC DESIGN SCHEDULE



LOS ANGELES METRO RAIL
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REPORT

PDCD

PERIOD AUGUST, 1984

V. COST PERFORMANCE

The Annual Work Plan, revised 21 August 1984, was priced for labor and all other contract costs on a monthly basis, to form the baseline budget to measure PDCD performance against results for both July and August, and are summarized below:

CM COST PERFORMANCE - JULY-AUGUST 1984
(\$000)

PDCD:

		PLAN	ACTUAL	VARIANCE
Labor Burden and Fee	July	87	78	(9)
	August	208	187	(21)
		<u>295</u>	<u>265</u>	<u>(30)</u>
Travel & ODC's	July	34	23	(11)
	August	82	28	(54)
		<u>116</u>	<u>51</u>	<u>(65)</u>
Subcontractor	July	0	0	0
	August	70	12	(58)
		<u>70</u>	<u>12</u>	<u>(58)</u>
Total Cost	July	121	101	(20)
	August	360	227	(133)
		<u>481</u>	<u>328</u>	<u>(153)</u>
Manhours	July	3,143	1,178	(1,565)
	August	7,615	4,758	(2,857)
		<u>10,758</u>	<u>6,336</u>	<u>(4,422)</u>



**LOS ANGELES METRO RAIL
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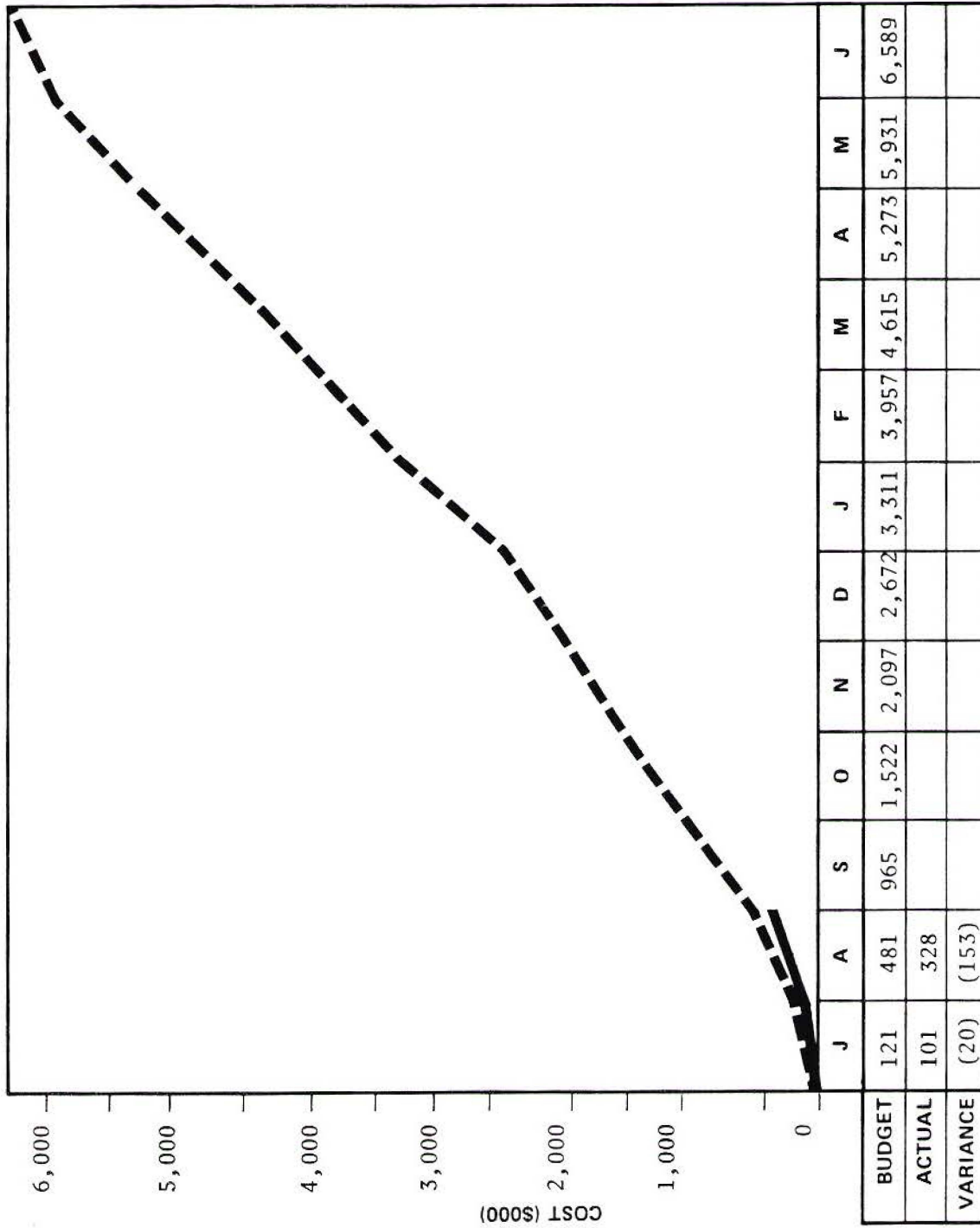
PDCD

PERIOD AUGUST, 1984

The underrun to plan is a result of the staffing the project at a reduced rate for both joint venture assigned personnel, and those furnished by subcontract ORS. PDCD has staffed the project at a lower level pending approval of the AWP and standard subcontract. (Underruns to plan will be reflected in future reports as a "Management Reserve" to be distributed at the discretion of management.)

This deliberate staffing lag occurred during the Phase I redefinition period and reflects the actual rate at which work has developed.

Parsons-Dillingham-De Leuw, Cather



LEGEND :
 - - - - - BUDGET
 _____ ACTUAL

FIGURE 6
PDCD Cost Performance

MANHOURS BY FUNCTIONAL DEPARTMENT

Functional Department		Jul	Cumula- tive	Aug	Cumula- tive	Sep	Cumula- tive	Oct	Cumula- tive	Nov	Cumula- tive	Dec	Cumula- tive	Jan	Cumula- tive	Feb	Cumula- tive	Mar	Cumula- tive	Apr	Cumula- tive	May	Cumula- tive	Jun	Cumula- tive
Project Management and Secretarial	Plan	1,335.00	1,335.00	1,649.00	2,984.00	2,273.00	5,257.00	2,551.00	7,808.00	2,708.00	10,516.00	2,708.00	13,224.00	2,708.00	15,932.00	2,708.00	18,640.00	2,708.00	21,348.00	2,708.00	24,056.00	2,708.00	26,764.00	2,593.00	2,935.70
	Actual	724.00	724.00	1,643.50	2,367.50																				
Systems Integration Manager	Plan	-	-	152.00	152.00	157.00	314.00	157.00	471.00	157.00	628.00	157.00	785.00	157.00	942.00	157.00	1,099.00	157.00	1,256.00	157.00	1,413.00	157.00	1,570.00	157.00	1,727.00
	Actual	-	-	-	-																				
East Zone Construction Manager	Plan	-	-	157.00	157.00	157.00	314.00	157.00	471.00	157.00	628.00	157.00	785.00	157.00	942.00	157.00	1,099.00	157.00	1,256.00	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	1,021.00	1,099.00	2,120.00	1,570.00	3,690.00	1,570.00	5,260.00	1,570.00	6,830.00	2,041.00	8,871.00	2,041.00	10,912.00	2,041.00	12,953.00	2,041.00	14,994.00	2,041.00	17,035.00	2,041.00	19,076.00
	Actual	40.00	40.00	216.00	256.00																				
Project Controls	Plan	393.00	393.00	1,256.00	1,649.00	1,413.00	3,062.00	1,413.00	4,475.00	1,413.00	5,888.00	1,413.00	7,301.00	1,570.00	8,871.00	1,727.00	10,598.00	1,727.00	12,325.00	1,727.00	14,052.00	1,727.00	15,779.00	1,727.00	17,506.00
	Actual	262.75	262.75	842.00	1,104.75																				
Contracts/Procurement	Plan	314.00	314.00	471.00	785.00	471.00	1,256.00	471.00	1,727.00	628.00	2,355.00	628.00	2,983.00	628.00	3,611.00	628.00	4,239.00	628.00	4,867.00	628.00	5,495.00	628.00	6,123.00	628.00	6,751.00
	Actual	119.00	119.00	377.50	496.50																				
Engineering Services	Plan	79.00	79.00	1,727.00	1,806.00	1,962.00	3,768.00	2,276.00	6,044.00	2,276.00	8,320.00	2,276.00	10,596.00	2,590.00	13,186.00	2,590.00	15,776.00	2,747.00	18,523.00	2,747.00	21,270.00	2,747.00	24,017.00	2,826.00	26,843.00
	Actual	40.00	40.00	480.00	520.00																				
Community Relation	Plan	79.00	79.00	157.00	236.00	157.00	393.00	157.00	550.00	157.00	707.00	157.00	864.00	471.00	1,335.00	471.00	1,806.00	471.00	2,277.00	471.00	2,748.00	471.00	3,219.00	471.00	3,690.00
	Actual	-	-	-	-																				
Safety	Plan	79.00	79.00	157.00	236.00	157.00	393.00	157.00	550.00	157.00	707.00	157.00	864.00	157.00	1,021.00	157.00	1,178.00	157.00	1,335.00	157.00	1,492.00	157.00	1,649.00	157.00	1,806.00
	Actual	-	-	176.00	176.00																				
Quality Assurance	Plan	157.00	157.00	157.00	314.00	157.00	471.00	157.00	628.00	157.00	785.00	157.00	942.00	157.00	1,099.00	157.00	1,256.00	157.00	1,413.00	157.00	1,570.00	157.00	1,727.00	157.00	1,884.00
	Actual	46.00	46.00	192.00	238.00																				
Administration	Plan	628.00	628.00	628.00	1,256.00	628.00	1,884.00	628.00	2,512.00	628.00	3,140.00	628.00	3,768.00	628.00	4,396.00	628.00	5,024.00	628.00	5,652.00	628.00	6,280.00	628.00	6,908.00	628.00	7,536.00
	Actual	198.00	198.00	432.00	630.00																				
EEO Administration	Plan	-	-	157.00	157.00	157.00	314.00	314.00	628.00	314.00	942.00	314.00	1,256.00	471.00	1,727.00	471.00	2,198.00	471.00	2,669.00	471.00	3,140.00	471.00	3,611.00	471.00	4,082.00
	Actual	-	-	120.00	120.00																				
Labor Relations	Plan	-	-	-	-	79.00	79.00	79.00	158.00	-	158.00	79.00	237.00	79.00	316.00	-	316.00	79.00	395.00	79.00	474.00	79.00	553.00	69.00	622.00
	Actual	-	-	-	-																				
Legal Counsel	Plan	-	-	-	-	188.00	188.00	188.00	376.00	188.00	564.00	188.00	752.00	189.00	941.00	189.00	1,130.00	189.00	1,319.00	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	10,758.00	9,055.00	19,813.00	10,275.00	30,088.00	10,510.00	40,598.00	10,589.00	51,187.00	12,003.00	63,190.00	12,081.00	75,271.00	12,317.00	87,588.00	12,317.00	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	5,936.75																				
Other Direct Labor																									
Rome Office Support																									
R. M. Parsons Procurement & Contracts Admin. and Acctg.	Plan	50.00	50.00	42.50	92.50																				
	Actual	29.00	29.00	54.00	83.00																				
Technical Publication and Repro.	Plan	51.50	51.50	154.00	205.50																				
	Actual	-	-	-	-																				
DeLauro, Cathar Admin. and Acctg. Technical	Plan	18.00	18.00	-	18.00																				
	Actual	-	-	-	-																				
Dillingham Technical	Plan	-	-	-	-																				
	Actual	-	-	-	-																				
S/T	Plan	148.50	148.50	250.50	399.00																				
	Actual	-	-	-	-																				
Total	Plan	3,143.00	3,143.00	7,615.00	10,758.00	9,055.00	19,813.00	10,275.00	30,088.00	10,510.00	40,598.00	10,589.00	51,187.00	12,003.00	63,190.00	12,081.00	75,271.00	12,317.00	87,588.00	12,317.00	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	6,335.75																				

FIGURE 7



LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

PDCD

PERIOD August 1984

VI. SUMMARY OF ACTIVITIES IN AUGUST

A. Project Administration

1. Completed and issued personnel policies as follows:
 - Assignment of Personnel
 - Travel and Relocation Policy
 - Business and Travel Expense Reporting
 - Short & Long Term Assignment & Relocation Travel and Expense Reporting
2. Completed and issued the Project Secretarial Manual.
3. Prepared relocation estimates on six personnel for RTD approval. Received approval on Daugherty and Johnson who have relocated. Also received approval on Jim York and Elson Martins who will relocate in early September.
4. Submitted resumes and salary information to RTD for approval on five new personnel.
5. Issued a procedure for time card reporting consistent with the newly established Work Breakdown Structure and Organization Breakdown Structure.
6. Reworked and resubmitted the project salary schedule to RTD for approval.
7. Issued a procedure for controlling parent company support tasks.
8. Prepared personnel requisitions for all PDCD staff.
9. Finalized and issued PDCD Orientation Manual.



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B. Accounting

1. Prepared commercial analysis of proposed leases and met with prospective landlords for CM's downtown office location.
2. Defined specifications and conducted meetings with vendors for purchase of CM personal computer and accounting software.
3. Submitted Invoice Preparation Procedure to RTD for approval.
4. Conducted Personnel Administration and Billing Procedure meetings with subcontractors.
5. Continued development of CM Accounting Procedures.

C. Quality Assurance

1. Completed draft of QA/QC Procedures Manual which is now undergoing internal review.
2. Reviewed ITB documents and provided informal input to RTD at the review conference. Formal comments were provided September 4th.
3. Met with RTD, Booz Allen and MRTC Quality Assurance personnel to clarify QA/QC philosophy and areas of responsibility on procurement and construction contracts.

D. EEO Administration

1. Attended a four day UMTA Conference in San Francisco on DBE/WBE employment and opportunities. The conference was attended by DBE/WBE companies from throughout California, Nevada, Arizona, Oregon and Washington; and by officials from mass transit agencies, UMTA and DOT.
2. Attended a meeting of the California Association of Minority American Contractors to advise them on the CM aspects of the Metro Rail EEO Program.



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E. Contracts & Procurement

1. Reviewed and prepared revisions to the standard subcontract.
2. Negotiated subcontract terms and conditions with Jenkins, Gales & Martinez; Better Personnel Employment Services; Randolph & Tate; Hayakawa Associates; and Martin & Huang.
3. Drafted contract language for Amendment No. 1 to Prime Contract.
4. Issued a Notice to Proceed pending definitization and approval of the subcontract to Vanir Construction; Better Personnel Employment Services and Jenkins, Gales & Martinez.
5. Reviewed the RTD Invitation to Bid package (including contractual terms and conditions).
6. Began work on Contracts/Procurement procedures.
7. Issued Invitations for Bid for automobile leases. Following an evaluation of the responses, a company was selected.

F. Engineering Services

1. Continued familiarization with the engineering aspects of the project.
2. Initiated preliminary review of criteria, standards, directive drawings.
3. Developed constructibility review procedure (issued 8-14-84).
4. Conducted constructibility review - Contract A142 - 85% plans and specifications.
5. Conducted constructibility review - Contract A195 - 85% plans.
6. Conducted constructibility review - Contract A410.



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7. Initiated constructibility reviews of Contract A425.
8. Initiated review of RTD "General Conditions" specifications.
9. Reviewed and commented on "Invitation to Bid" package.
10. Reviewed and commented on Tunnel Liner Study.
11. Initiated review of geotechnical reports.
12. Inspected the route.
13. Visited the excavation area in tar sands near La Brea Tar Pits.
14. Attended meetings (at RTD and PDCD) on Union Station sequencing of construction.
15. Attended presentation on tunneling of Contract A410 by Design Consultant.
16. Initiated research of gassy ground literature for input to procedures for tunnel verification.
17. Attended meetings with RTD and MRTC to discuss tunnel liners.

Construction and General Services

1. Conducted constructibility reviews of the following items:

- o Contract Documents
 - SCRTD Standard Invitation to Bid
 - Standard Specifications, Division 1
 - A142
 - A195
 - A410
- o Preconstruction Readiness Schedule



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2. Reviewed the following documents to identify PDCD involvement and recommend appropriate action:

o Master Agreements

- CalTrans
- City of Los Angeles
- Department of Water and Power (L.A. Water)
- Pacific Bell Telephone
- Western Union Telegraph Co.
- CommuniCom (Cable TV)

o FEIS - Starter Line

o EIS - MOS

3. Attended coordination meeting with RTD's Utilities Engineer, followed by meeting with the Bureau of Contract Administration, Department of Public Works, City of Los Angeles. This initial meeting was held to discuss construction permits, inspection procedures, and avenues for coordination/communication.
4. Visited Union Station to evaluate proposed construction staging through station facilities. Subsequent study involved review of CalTrans Busway Plans and A-135 documents including underpinning report.
5. Discussed alternate schemes by MRTC for staging construction in Union Station yards.
6. Reviewed alternate tunnel liners and made recommendations via comment memo. In follow-on meeting with RTD and MRTC agreement on acceptable liners was reached.

II. Project Controls

1. Completed CM Organization Breakdown Structure/Work Breakdown Structure in a format compatible with the TRACS system. A copy was provided to RTD Project Controls, who have begun loading the structure into TRACS. (copy contained in appendix)



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2. Prepared revision to CM First Annual Work Plan, dated August 21, 1984.
3. Prepared status schedules for design reviews, procedure development, and special studies for CM Control Room.
4. Commented on A142 Bid Document for clarity of scheduling requirement. *TO WHOM P*
5. Developed first draft of Cost and Scheduling Procedures.

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LOS ANGELES METRO RAIL CONTRACT PERFORMANCE REPORT

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VII. PLANNED ACTIVITIES IN SEPTEMBER

A. Administration & Accounting

1. Continued development of administration and accounting procedures.
2. Continue relocation assistance and orientation for CM staff.
3. Continued assistance in bringing personnel on board, submitting resumes for approval, and preparing TA's for business travel.
4. Issue of initial invoice to RTD.
5. Assist CM Procurement with subcontractor orientation on Administration/Accounting Procedures.
6. Develop cost collection and reporting system, specifying any necessary additional hardware or software.

B. Quality Assurance

1. Complete QA/QC Procedures Manual and submit to RTD for comments.
2. Meet with RTD QA personnel on pre-award surveys.
3. Review upon receipt of the standard Procurement Contract Quality Requirements and provide RTD with comments.

C. EO Administration

1. Meet with RTD's Department of Equal Opportunity to discuss the Metro Rail Conference scheduled for September 22, 1984.
2. Meet with various minority trade association presidents and executive directors to discuss future contracting opportunities.



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3. Attend the Conference of Minority Transportation Officials on September 28-29, 1984 in Washington, D.C., as well as the Hispanics in Transportation meeting also being held in Washington, D.C..

D. Contracts and Procurement

1. Continue work on Contracts and Procurement procedures.
2. Continue to negotiate subcontractor terms and conditions and execute subcontracts.
3. Prepare consent packages for each subcontractor and submit to RTD for approval.
4. Issue Notices to Proceed to subcontractors upon agreement of terms and conditions.
5. Finalize lease negotiations on automobiles.

E. Construction & General Services

1. Conduct constructibility reviews of scheduled design packages.
2. Continue reviews of construction sequencing and construction readiness packages for MOS-1.
3. Continue review of regulating agency documents.
4. Meet with MRTC to finalize construction staging of Union Station for presentation to AMTRAK.
5. Continue work on A-410 constructibility comments.

F. Engineering Services

1. Finalize relocation to Pasadena of the Manager of Engineering Services and Lead Geotechnical Engineer.
2. Continue staffing in accordance with the First Annual Work Plan.
3. Continue review of criteria, standard drawings and directive drawings with assistance from planned six-man task force of experts between September 17-30.

Parsons-Dillingham-De Leuw, Cather



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4. Conduct constructibility review of 100% plans for Contract A-114 (due to be received September 12).
5. Conduct constructibility review of Contract A-220 (due to be received September 5) - line tunnel only.
6. Conduct constructibility review of 60% plans for Contract A-350 (due to be received September 13).
7. Conduct constructibility review for 60% plans of Contract A-220 (Stage 1 - received August 31) - Wilshire/Western Station.
8. Conduct constructibility review of A-220 (Wilshire/Normandie Station) (plans due to be received August 27).
6. Project Controls
 1. Continue preparation of Cost, Scheduling and Configuration Control Procedures Manual for RTD review.
 2. Prepare time-phased AWP cost curves and data, defined by organization, company and task for test loading into TRACS.
 3. Define and review with RTD construction WBS Levels 7 & 8.
 4. Acquire TRACS user identification numbers and begin training of MSCS/TRACS.
 5. Orient CM team on TRACS system.
 6. Continue to provide weekly status of design reviews, bid package reviews and other constructibility review schedules.
 7. Expand document control system implementation.
 8. Begin preparation of construction schedules.
 9. Finalize monthly CM report formats for CM services and for construction contracts.



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10. Review with RTD the Construction Readiness Schedule for MOS-1 and review MPTC Construction Sequencing Schedule for MOS-1.



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VIII. AREAS OF CONCERN

In general, design drawings and specifications submitted for CM review have not reached a sufficient level of completion for meaningful review.

PDCD

PDCD OBS/WBS Job Charging Matrix Levels 7 and 8 TRACS -- Preconstruction Phase I

LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
LEVEL 8												LEVEL 7												LEVEL 6				LEVEL 5				LEVEL 4				LEVEL 3				LEVEL 2				LEVEL 1			
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