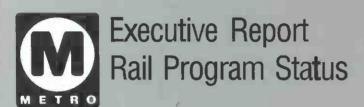
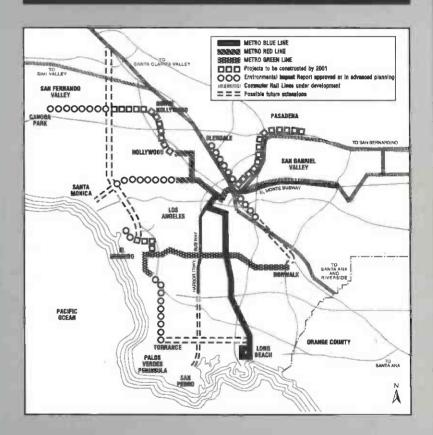
RAIL CONSTRUCTION CORPORATION







RAIL PROGRAM SUMMARY STATUS

RAIL PROGRAM STATUS SUMMARY

PROGRAM BUDGET AND FORECAST

The rail design and construction program currently consists of four individual projects the Metro Blue Line, the Metro Green Line, and the Metro Red Line, MOS-1 and MOS-2. The projects have a combined budget of \$4,277,000,000 and a combined current forecast of \$4,373,000,000, approximately 2% over budget. This forecast difference is from the Metro Red Line MOS-1. Measures continue to be taken to control and mitigate this forecasted cost.

About 100 construction change notices have been added this month for the Metro Red Line MOS-1. The total dollar value of executed change orders for the Metro Red Line MOS-1 increased by about \$600,000 to \$48.8 million. The backlog of unresolved changes increased by 42 over the previous month. Also, the percentage of outstanding change notices over 30 days old is now 32% of all outstanding changes, up from 26% last month. No change notices have been received to date for the Metro Red Line MOS-2 (no construction activity is underway) and only minor change activity has occurred on the Metro Green Line. Metro Blue Line change orders executed to date are about \$53.7 million as compared to \$49.3 million last month. The current backlog of 269 outstanding change notices is a dramatic drop from 371 last month. The Metro Blue Line changes over 30 days dropped to 235 (87% of total outstanding change notices) from 343 (92%). This is indicative of active resolution of outstanding change notices.

The program summary cost report (Figure 1) shows a more complete cost status of the program. This summary report includes the active design and construction projects.

PROGRAM CASH FLOW

Through October 1990, total program expenditures for active projects is \$1,787,226,000. Figure 2 illustrates the major project objectives and attendant cash requirements through completion of the approved projects. This rail construction plan is based on the total cost forecast for each project.

RAIL CONSTRUCTION CORPORATION PROGRAM COST REPORT - TOTAL RAIL PROGRAM SUMMARY BY COST ELEMENT

(IN THOUSANDS)

	PROJECT: RO1,R23,R80,R81	(1)	(2) BUDGET		(4) THORIZED KPENDITURE	(5) CC	(6) MMITHENTS	(7) INC	(8)	(9) EXP	(10) PENDITURES	(11) FOE	(12) RECAST
	***************************************			*******									
	DESCRIPTION	ORIGINAL	CURRENT	PER100	TO DATE	PERIOD	TO DATE	PER I CO	TO DATE	PER100	TO DATE	CURRENT	(11-2) VARIANCE
	CONSTRUCTION	2,490,310	2,631,979	284	1,246,468	61,517	1,192,486	8,806	960,091	17,393	959,563	2,671,280	39,301
Figure	PROFESSIONAL SERVICES	918,699	1,016,516	17,690	556,302	6,149	592,423	13,940	551,933	11,535	592,011	1,057,794	41,278
	REAL ESTATE	245,664	298,470	258	182,169	1,254	189,483	1,254	183,657	905	179,790	302,529	4,059
	UTILITY/AGENCY FORCE ACCOUNTS	105,724	101,708	0	61,653	994	69,718	1,057	61,549	(4,311)	60,910	101,401	(307)
	SPECIAL PROGRAMS	5,523	11,853	o	508	0	608	0	276	0	196	11,853	0
	PROJECT RESERVE	318,879	262,580	0	0	0	0	0	0	0	0	274,368	11,788
	PROJECT REVENUE	(18,115)	(46,503)	0	o	(21)	(524)	(24)	(3,550)	(24)	(5,244)	(46,503)	o
	GRAND TOTAL PROJECTS	4,066,684	4,276,603	18,232	2,047,100	69,893	2,044,194	25,033	1,753,956	25,498	1,787,226	4,372,722	96,119

Page 2

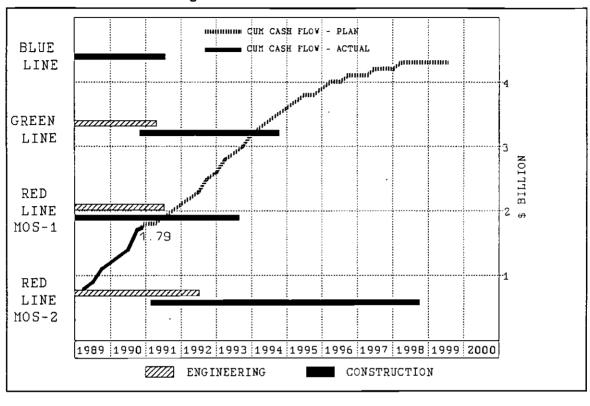


Figure 2 - Rail Construction Plan

Figure 3 shows the funding sources for each project and for the total program. Data included in this figure is based on the current forecast total cost of each project.

Figure 3 - Rail Construction Funding Sources

		BAS	ED ON	PROJECT	COST F	FORECAS	TS			
			(1	OLLARS	IN HIL	LIONS)				
	BLUE	LINE	GREEN	LN	RED	LINE	RED	LINE	тот	
					ноѕ	- 1	моз	5-2	PROGR	PAM
	\$	%	\$	%	\$_	%	\$	%	\$	%
UHTA					696	48	667	46	1363	31
STATE					214	15	185	13	399	9
LOCAL (PROP A)	877	100	599	100	228	16	440	30	2144	49
BENEFIT ASSESSMENT					130	9	58	4	188	5
CITY OF LOS ANGELES					86	6	96	7	182	4
UNALLOCATED FCST					96	6	_		9 6	2
TOTAL	877	100	599	100	** 1450	100	1446	100	4373	100

^{*} CONSISTS OF LIGHT RAIL LINE (\$847) AND MC-5 WORK (\$30)

^{**} LRT PORTION INCLUDED IN BLUE LINE FORECAST

DATA DATE:

30 NOV 90

PROGRAM SCHEDULE

The scheduled Revenue Operations Date for the remaining portion of the Metro Blue Line (Seventh and Flower station to Pico Station) was advanced to February 14, 1991, four months ahead of schedule.

The Metro Green Line is scheduled for Revenue Operations in October 1994. The project is 58 days behind schedule. Workaround plans are being made to resolve the schedule delays.

The Metro Red Line, MOS-1 is scheduled to begin Revenue Operations in September 1993. The critical path for this project involves completion of all trackbed area work in stations and tunnels to allow trackwork access. This remains an achievable schedule.

The Wilshire Segment of the Metro Red Line, MOS-2 is on target for Revenue Operations in July 1996, with the Vermont Segment scheduled for opening in September 1998. No impacts to these dates are presently seen.

Figure 4 is a listing of key events for all projects scheduled over the next twelve (12) months and is intended as a planning guide only.

1 YEAR OUTLOOK

PROJECT STATUS / KEY EVENTS **TOTAL PROGRAM**

act

		KUV		Inec	JAN 91	ITEB	MAK	APR	JMA1	130N	JUL	AGG	JSEP	loc i
		PLAN	ACTL					<u> </u>						<u></u>
60%	Design Submitt	2	2	1	1			2	2		1		3	1
85%	Design Submitt	2	1	2	1	j	1]	1	1	2	1] 1] 1
100%	Design Submitt	ļ	2	2	6	1 _	1	_			1	2	2	2
Q: XX	TOTAL	4	- 5	25 ∵	8 26	%1 0,197%	2:4:3	2	7 3 . [485	PE 1947	4	≛ 3 - ≛	6	. 4
CR	Camera Ready	1	1	3	7	5		[1	1		1	2]
AD	Advertise	2	2	3	2	5	1	2				1	2	
BD	Bid Due	1	1	1	1	2		2	<u> </u>	_1			<u> </u>	1
AW	Akard	1	3	3	3	1	2	3	3	3	3	2	1	1
RE	Real Estate		ļ	2	1	1		1	2	İ	Ì		1	
NTP	Notice to Proc.		2	2 _	4 _	1	2	3	2	5	3	2	1	1
MFG	Kanufacturing				1]	ł	Ì	1	Ì	1	[
vs	Vehicle Ship				1	1	2	2						İ
FD	Oelivery Finish						<u></u>	<u> </u>		<u></u>		_		
VT	Vehicle Test				7	1		1	1	1	}	1	2	2
VA	Vehicle Arrival			ļ				1	ŀ	1	ļ			
LIO	Liquid. Milest.	2	3	2	2	_4	2	10	5	2	4	3	3	4
INT	Interfo. Milest]		_	1		ĺ	1			(
cc	Contract Complt	1	ļ	1	L	2	2	2 _	3	_2	1	2	<u> </u>	2

1.) REPORT REFLECTS ONLY CONTRACT PACKAGES FOR MAJOR SYSTEMS.

Figure 4

REAL ESTATE ACQUISITIONS

To date, six hundred and sixteen (616) real estate parcels have been identified as required for the total program. Of this total, one hundred and forty-one (141) are not yet available for construction. The RCC is taking action to reduce or eliminate adverse impacts to the schedule because of any possible delays in real estate entry/acquisition. Figure 5 summarizes the real estate status for each project.

Figure 5 - Real Estate Acquisition Status Summary

REAL ESTATE - STATUS SUMMARY
TOTAL

	NO. OF	NUMBER	JUST COMP	OFFERS	CONDEM-	PARCELS	PARCELS
PROJECT	PARCELS	CERTID	APPROVED	MADE	NATION	AVAIL	NOT AVAIL
BLUE	423	229	157	259	23	370	53
GREEN	34	33	NA	NA	4	10	24
MOS-1	94	94	94	94	22	94	0
MOS-2	65	27	17	13	5	1	64
TOTAL	616	383	268	366	54	475	141
PREVIOUS MONTH	616	383	254	360	51	472	144

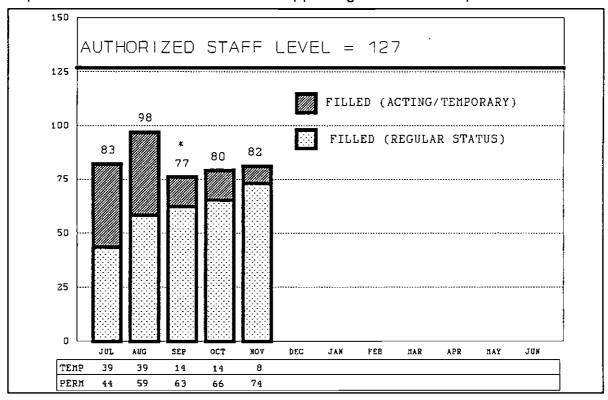
RAIL CONSTRUCTION CORPORATION STAFF DEVELOPMENT

Authorized staff level for the RCC is one hundred twenty-seven (127). There was an increase of eight permanent staff this month. Recruitment continues for the remaining positions. Staff levels are illustrated in Figure 6.

Figure 6 - RCC Staff Levels

The acting/temporary number was revised from 39 in

* The acting/temporary number was revised from 39 in August to 14 in September to exclude SCRTD staff supporting the transition process.



CORPORATE COST TARGETS RELATIVE TO CONSTRUCTION

The corporate goals of the RCC include limitations on the percentage of total project costs which will be spent on project administration and on RCC/LACTC staff. Based on the current cost forecast data for each project, the project administration cost totals 24%. This exceeds the goal of 20% maximum but is an improvement from 25% for last month. The percentage includes all costs previously expended by the SCRTD when the project was under SCRTD management.

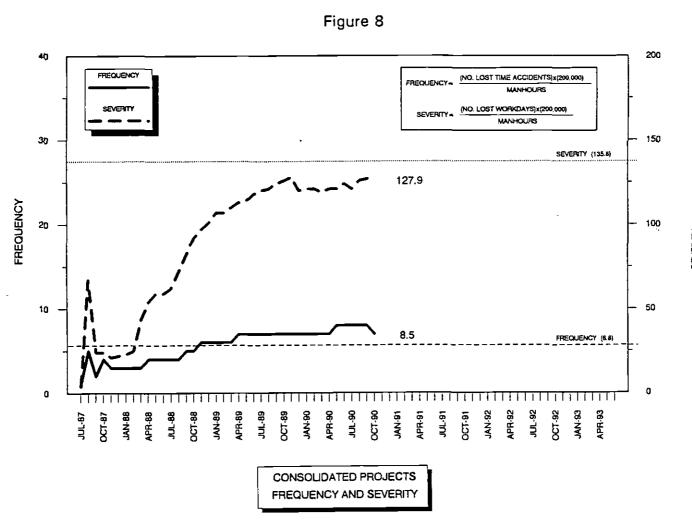
Staff costs are projected at 5% of total program costs. This exceeds the corporate goal of 4%. Improvements and efficiencies are still being pursued to optimize staff and administrative expenditures. Figure 7 illustrates the forecast figures for each project and for the total program.

COST PERFORMANCE RELATIVE TO CORPORATE GOALS IN THOUSANDS

	METRO BLUE L	INE	METRO GREEN I	L I NE	METRO RED L	INE	METRO RED		PROJECT TOTAL	s	CORPORATE
	DOLLARS	PERCENT	DOLLARS	PERCENT	MOS-1 DOLLARS	PERCENT	MDS-2 DOLLARS	PERCENT	BOLLARS	PERCENT	GOAL
	DOLLARS	PERCENT	DOLLARS	PERDENT	POLEAKO	TEMBERT	poccinio -	TEMBERI			
CONSTRUCTION	656,237	75 x	410,764	69%	747,727	52 %	958,380	66 %	2,773,108	63%	
RIGHT-OF-WAY	55,592	6 x	35,096	6 %	139,016	10%	70,887	5%	300,591	7%	
SERVICES:											
ENGINEERING/DESIGN	69,587	8%	53,833	9%	221,259	15%	80,818	6 X	425,497	10%	
CONSTRUCTION HIGHT.	90,722	10%	35,877	6 x	140,214	10%	127,446	9%	394,259	9%	
STAFF	17,655	2%	19,760	3%	105,919	7%	56,166	4%	199,500	5%	4%
OTHER	15,142	2%	5,830	1%	14,934	1%	14,746	1%	50,652	1%	
SUBTOTAL	193,106	22%	115,300	19%	482,326	33%	279,176	19%	1,069,908	24%	20%
RESERVE	2,213	0%	54,466	9%	80,950	6 X	137,988	10%	275,617	6%	
REVENUE	(29,877) -3x	(16,626)	-3%	0	0%	٥	0%	(46,503)	-1 x	
GRAND TOTAL	877,271	100%	599,000	100%	1,450,019	100%	1,446,431	100%	4,372,721	100%	

SAFETY

Figure 8 shows the combined safety record for the Metro Blue Line and the Metro Red Line MOS-1. The overall frequency of injuries have declined slightly. Although the frequency of injuries is higher than the national incidents index, the severity of injuries is less than the national severity index. RCC plans to pursue an even more vigorous role to further reduce incidence and severity levels.



Total manhours as of October 1990: 11,485,444

INVOICE PROCESSING

Figure 9 illustrates the average time to payment by RCC for contractor invoices. To smooth the irregularities of weekly processing of invoices, four (4) week moving averages have been used for this chart. Week to week variances or short term variances in this average should not be cause for concern; the overall trend, however, will be closely monitored as a measure of LACTC/RCC responsiveness to contractor invoices.

The trend shows a consistent processing cycle of around 20 days from receipt of invoice to payment.

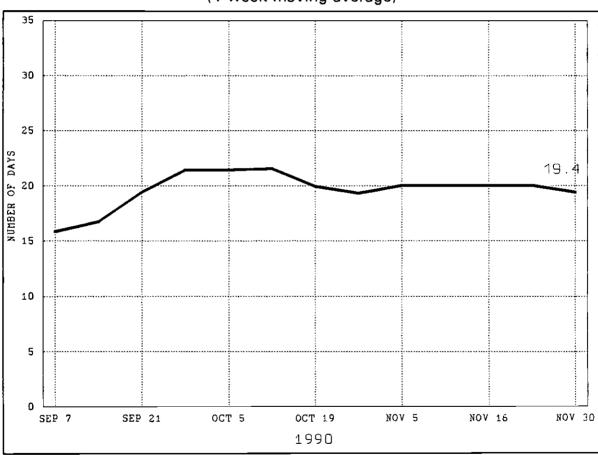


Figure 9 - Average Days to Invoice Payment (4 week moving average)

EXECUTIVE SUMMARY

The current Project Budget is \$877,271,000 which was approved by the Commission in July, 1990. The current forecast is \$877,271,000. This figure includes the MC-5 contracts valued at \$30,322,000.

Costs totalling \$771,422,842 (88.5% of the budget) have been incurred to date and \$821,965,610 (94% of the budget) has been committed during the same time period.

Construction progress through November 1990, was measured at 99.0% compared to the planned progress of 99.0%. The Los Angeles County Transportation Commission board approved a new Revenue Operation Date (ROD) for the Seventh and Flower station of February 14, 1991. This is four months ahead of the previously scheduled ROD.

Systems work in the station area of the Seventh and Flower location remains on schedule despite supplier instigated delays. Switchboards have been received which were missing circuit breakers and the interposing relays will not be available until January 12, 1991. TRANSCAL has created an effective workaround program to bring on line the critical mechanical system elements on schedule.

Phase I safety evaluation work continued which included investigation of a number of proposed alternative measures for improving system safety. Among those items approved for implementation on a test basis are the lowering of fence height to improve visibility and the addition of high intensity lighting on the vehicles. Phase I activities will be concluded in time for a presentation to be given during the second RCC board meeting in January 1991.

The residual responsibility for Phase II of the safety evaluation will be managed by an entity to be identified at a later date.

AREAS OF CONCERN

SEVENTH AND FLOWER DELAYS

Problem: Supplier delays in the delivery of interposing relays and incomplete

switchgear have caused a potential slip in the Seventh and Flower

Revenue Operations Date (ROD).

Action: TRANSCAL, PDCD, and LACTC are working to develop a

workaround plan to enable TRANSCAL to meet the February 14,

1991 ROD.

RAIL CONSTRUCTION CORPORATION PROJECT COST REPORT - METRO BLUE LINE SUMMARY BY COST ELEMENT

(IN THOUSANDS)

PROJECT: RO1	(1)	(2)	(3) Aut	(4) HORIZED	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
METRO BLUE LINE	81	UDGET	FOR EX	PENDITURE	CC	MMITMENTS	INC	URRED COST	EXP	ENDITURES	FDR	ECAST
OESCRIPTION	ORIGINAL	CURRENT	PER 100	TO DATE	PER 100	TO DATE	PER100	TO DATE	PERIOD	TO DATE	CURRENT	(11-2) VARIANCE
CONSTRUCTION	497,194	608,859	284	560,005	1,334	533,041	3,204	498,476	3,271	497,415	610,110	1,251
PROFESSIONAL SERVICES	121,494	186,778	o	164,820	2,489	176,713	2,489	176,711	2,489	174,315	186,778	0
REAL ESTATE	39,847	55,592	0	49,463	1,059	55,223	1,059	54,936	710	51,069	55,592	0 -
UTILITY/AGENCY FORCE ACCOUNTS	50,177	47,378	0	44,434	994	56,528	1,039	52,632	1,041	51,857	47,378	0
SPECIAL PROGRAMS	0	6,328	0	0	0	0	0	0	0	0	6,328	0
PROJECT RESERVE	64,129	2,213	0	0	0	0	0	0	0	0	962	(1,251)
PROJECT REVENUE	(1,489)	(29,877)	0	0	0	460	(3)	(3,233)	(3)	(3,233)	(29,877)	0
GRAND TOTAL PROJECT	771,352	877,271	284	818,722	5,876	821,965	7,788	779,522	7,508	771,423	877,271	0

Page 2

RAIL CONSTRUCTION CORPORATION PROJECT COST REPORT - METRO BLUE LINE (LIGHT RAIL PORTION) SUMMARY BY COST ELEMENT (IN THOUSANOS)

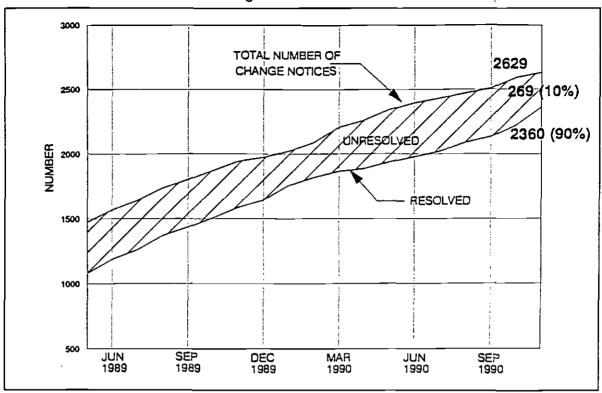
PROJECT: RO1	(1)	(2)	· (3)	(4) THOR I ZEO	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
METRO BLUE LINE	Ę	BUDGET	FOR EX	(PEND I TURE	Co	DMM I THENTS	INC	CURRED COST	EXP	END I TURES	FOR	ECAST
DESCRIPTION	ORIGINAL	CURRENT	PERIOD	TO DATE	PER 100	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	CURRENT	(11-2) VARIANCE
CONSTRUCTION	497,194	578,894	0	556,781	946	530,054	2,739	495,834	2,806	494,773	580,145	1,251
PROFESSIONAL SERVICES	121,494	183,458	0	164,820	2,489	176,713	2,489	176,711	2,489	174,315	183,458	0
REAL ESTATE	39,847	52,065	0	49,463	1,059	55,223	1,059	54,936	710	51,069	52,065	0
UTILITY/AGENCY FORCE ACCOUNTS	50,177	47,378	0	44,434	994	56,528	1,039	52,632	1,041	51,857	47,378	0
SPECIAL PROGRAMS	o	2,728	0	0	0	0	0	0	0	0	2,728	0
PROJECT RESERVE	64,129	1,713	0	0	0	0	0	0	0	0	462	(1,251)
PROJECT REVENUE	(1,489)	(19,287)	0	0	0	460	(3)	(3,233)	(3)	(3,233)	(19,287)	0
GRAND TOTAL PROJECT	771,352	846,949	0	815,498	5,488	818,978	7,323	776,880	7,043	768,781	846,949	0

RAIL CONSTRUCTION CORPORATION PROJECT COST REPORT - METRO BLUE LINE (MC5 PORTION) SUMMARY BY COST ELEMENT (IN THOUSANDS)

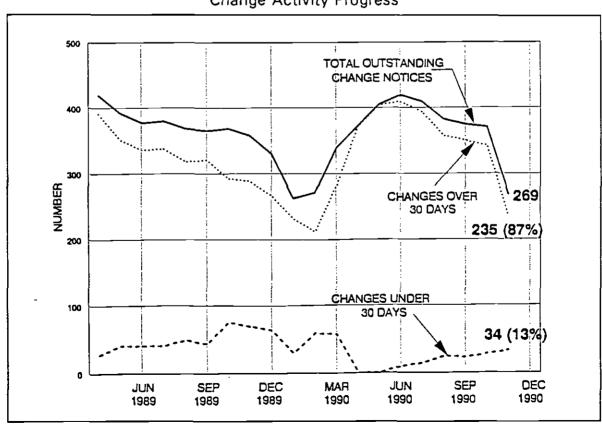
PROJECT: RH1	(1)	(2)		(4) HOR I ZED	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
MC5 RR RELOC.	E	BUDGET	FOR EX	(PEND I TURE	CC	MMITMENTS	180	CURRED COST	EXI	PENDITURES	ruk	ECAST
DESCRIPTION	ORIGINAL	CURRENT	PER100	TO DATE	PER I OD	TO DATE	PER100	TO DATE	PER I COD	TO DATE	CURRENT	(11-2) VARIANCE
CONSTRUCTION	0	29,965	284	3,224	388	2,987	465	2,642	465	2,642	29,965	0
PROFESSIONAL SERVICES	0	3,320	0	0	0	0	0	0	0	0	3,320	0
REAL ESTATE	0	3,527	0	0	0	0	0	0	0	0	3,527	0
UTILITY/AGENCY FORCE ACCOUNTS	0	0	0	0	0	0	0	0	O	0	0	0
SPECIAL PROGRAMS	0	3,600	0	0	0	0	0	0	0	0	3,600	0
PROJECT RESERVE	0	500	0	0	0	0	0	0	0	0	500	0
PROJECT REVENUE	0	(10,590)	0	0	0	0	0	0	0	0	(10,590)	0
GRAND TOTAL PROJECT	0	30,322	284	3,224	388	2,987	465	2,642	465	2,642	30,322	0

METRO BLUE LINE

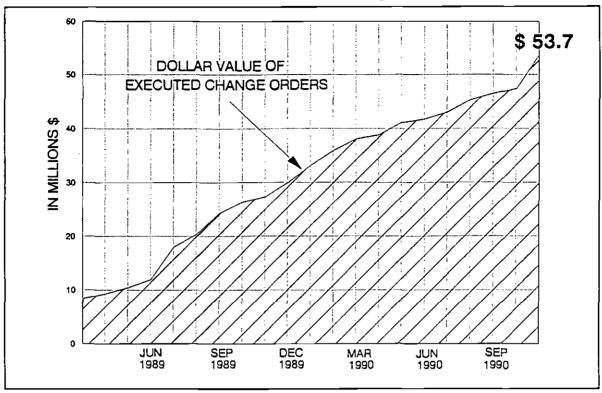
Change Notice Resolution



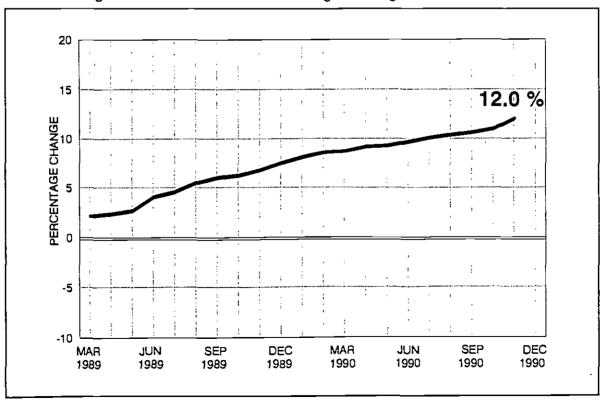
Change Activity Progress



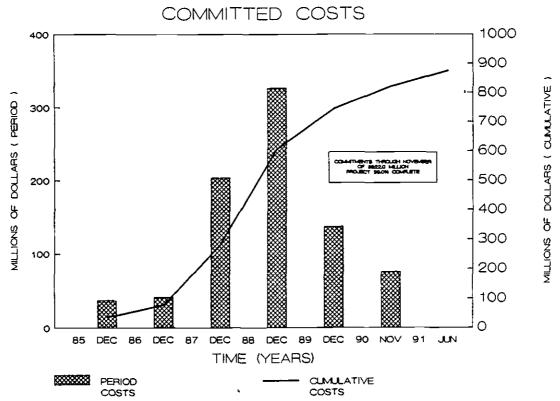
Total Value of Executed Change Orders



Change Order Dollars as a Percentage of Original Contract Award



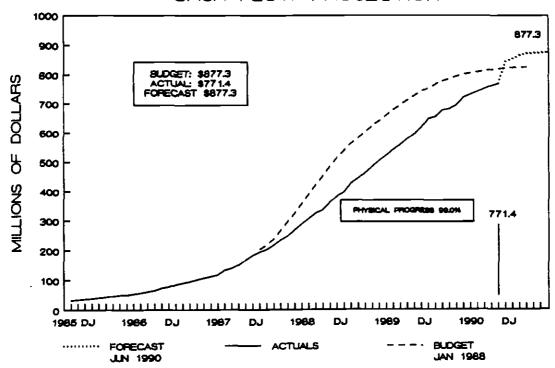
METRO BLUE LINE

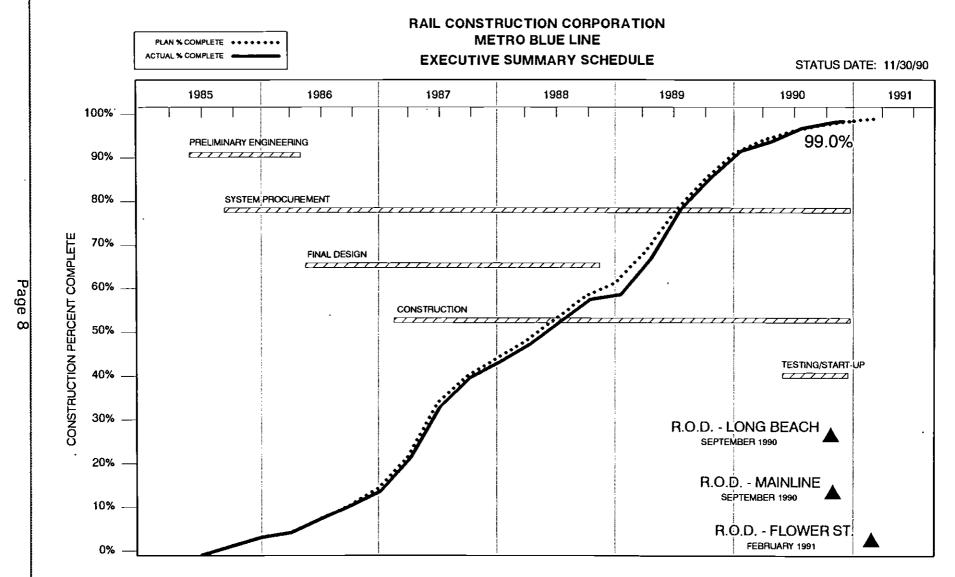


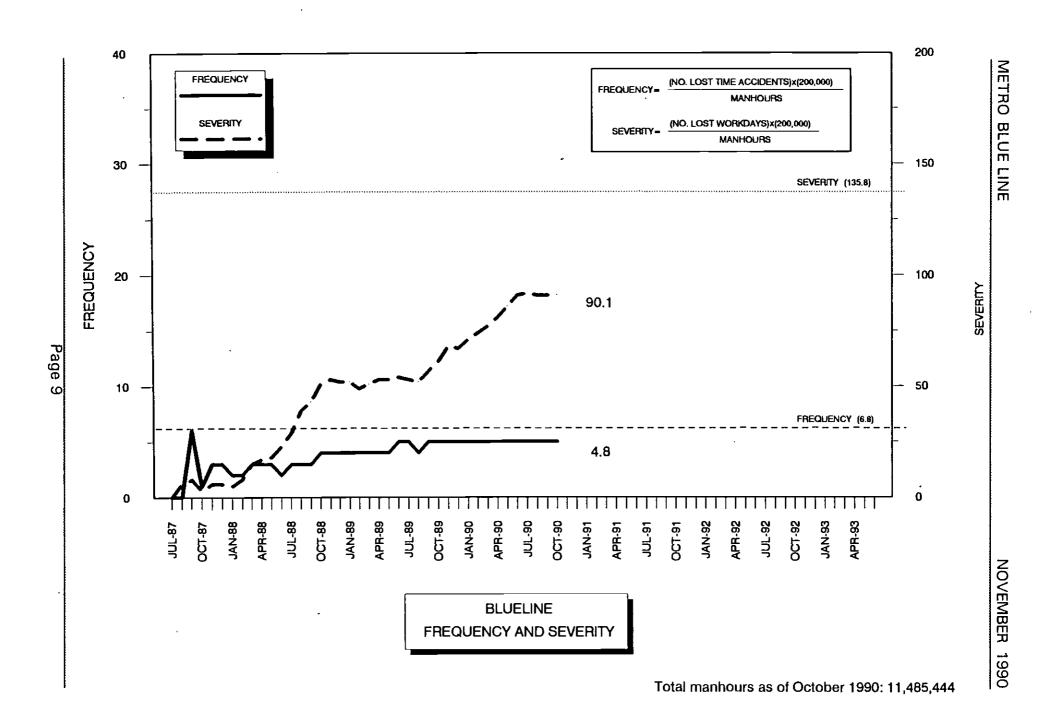
FIRST TWO YEARS SHOW ACTUAL DOLLARS INCURRED DURING THE DESIGN STAGE

METRO BLUE LINE

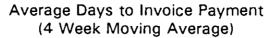
CASH FLOW PROJECTION

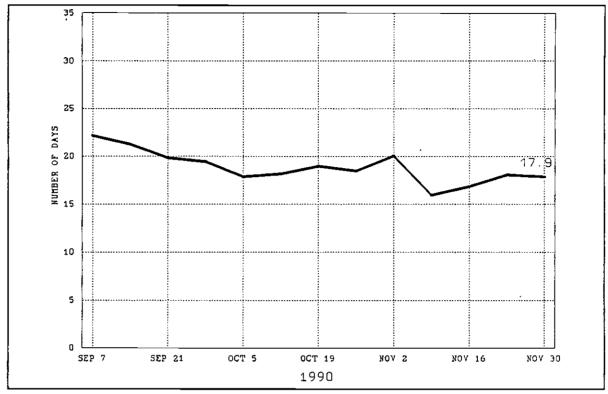






METRO BLUE LINE NOVEMBER 1990





The following is a list of the actual number of invoices and dollar amounts of invoice payments for the past three months.

	Number	
	of	Invoice
Date	Invoices	Amount
09/07/90	7	\$ 118,130
09/14/90	12	3,109,722
09/21/90	9	1,431,620
09/28/90	15	2,231,355
10/05/90	3	258,628
10/12/90	5	437,202
10/19/90	16	838,320
10/26/90	4	141,658
11/02/90	6	1,806,523
11/09/90	13	10,934,561
11/16/90	14	889,488
11/23/90	· 21	1,348,598
11/30/90	16	243,164

EXECUTIVE SUMMARY

The cashflow information indicates a total project expenditure to-date of \$55.1 million which represents about 9% of the current total forecast of \$599 million. The project commitments to-date are \$113.7 million, about 19% of the total budget of \$599 million. With the award of the Utility Relocation & Foundations contract (C0101), the value of construction and procurement contracts committed is now \$27.9 million. This amount includes Caltrans construction and systemwide procurement contracts.

The **Master Schedule** update, with a status date of November 30, 1990, indicates that the *project is now 58 days behind schedule*, a negative float reduction of 32 working days from the last update. This improvement is due to the fact that the interface between the Rosecrans/Aviation & Kramer Bridge contract (C0110) and the El Segundo Trackwork Installation contract was refined. The Project Critical Path now runs through third party utility relocations, the Utility Relocations and Foundations contract (C0101), the Elevated Guideway and Stations contract (C0100), Trackwork Installation (C0610), Automatic Train Control Installation and Testing (H1100), overall systems integration, testing, and pre-revenue service. Once the civil contracts in the El Segundo segment of the project have been awarded, a workaround plan will be developed in order to maintain the current ROD of October 1, 1994.

The **design** portion of the project is approximately 90% complete and the current schedule indicates that the design will be complete by June 1991. The design for all but two of the systems/systemwide contracts are scheduled to be complete by the end of February 1991.

The first of the four El Segundo civil contracts, Utility Relocation & Foundations (C0101), was awarded on November 1, 1990 to Brinderson Corporation, the low bidder, and the Notice to Proceed was issued on November 26, 1990. It is anticipated that the contract will mobilize during the month of December and that construction will begin in early January 1991.

Currently, in the Century Freeway Segment of the project seven of the twelve civil contracts are under construction. There are four contracts in the bid/award cycle and one is awaiting design completion. Of the four contracts in the bid/award cycle, Contract #38 was awarded on November 14, 1990, to Kasler Corporation, Contract #33 is scheduled to be awarded on December 5, 1990, and the remaining two are scheduled to be awarded in January 1991.

Metro Green Line construction by Caltrans construction forces, based on actual physical work-inplace in the Century Freeway Segment, is currently 1.30% complete. In the El Segundo Segment construction is anticipated to start in January 1991 on the Utility Relocation and Foundations contract (C0101). The El Segundo Elevated Guideway and Stations contract (C0100), which represents more than 30% of the total Metro Green Line Project construction costs, is anticipated to start in the spring of 1991. The El Segundo Bridge Construction contract (C0110) was advertised on November 30, 1990. It has an anticipated NTP of April 1991.

During November meetings were held to discuss the possibility of including the engineering and construction of North Coast Segment (NCS) as part of the current Metro Green Line construction

METRO GREEN LINE November 1990

program. The initial intention, based on NTP for design in August 1990, was to have the North Coast Segment go into revenue service at the same time as the Norwalk-El Segundo portion of the project. However, the NTP for the design is not to be issued until December 1990. Therefore, schedule analysis is in progress to attempt to produce a North Coast Segment ROD for the NCS of October 1994, concurrent with the Metro Green Line ROD.

Of the 19 parcels for which Right-of-Entry is required to construction on the Utilities Relocation & Foundations contract (C0101), eight have been acquired (two during the November reporting period), three are in condemnation and the remaining 8 are in the final negotiation stage. An additional 14 parcels have been certified in support of the Elevated Guideway & Stations contract (C0100), the Hawthorne Yard and Shops Contract (C0400), the El Segundo Bridges contract (C0110), with right-of-entry still to be acquired for all 14.

To-date no safety incidents have been reported as no RCC administered construction contracts are underway. Reporting on safety related issues is anticipated to begin in early 1991.

AREAS OF CONCERN

1. Decision on Railroad vs. Trolley

Concern: The Rail Construction Corporation (RCC) requires that a decision be made

by Southern California Edison (SCE) that would allow the Metro Green Line to operate as a trolley (LRT) as opposed to a railroad. This decision would eliminate the need to raise of power lines at the Hawthorne Yard and

Compton Station areas.

Action: The RCC met again with a SCE Divisional Manager to discuss the issue,

which is currently SCE review RCC anticipates a decision from SCE on this

matter in January 1991.

2. Property Acquisition

Concern: Private property right-of-way, AT&SF railroad right of entry and utilities

relocation are major hurdles that must be overcome before construction can

start.

Action: During November negotiations intensified with private property owners,

public utilities and railroad representatives. It appears that the Right-of-Entry to the AT&SF railroad property will be achieved by January 1991. A meeting with the AT&SF is scheduled for December in Chicago. Private property negotiations progressing. Utility issues are more difficult to resolve, the most critical being coordination with SCE. Chevron and Four

Corners oil line relocations also remain critical.

3. Caltrans Rail Access Dates

Concern: The completion of Caltrans design packages and the start of Century

Freeway construction continue to slip without any change in rail access dates.

Action: The OKA task force continues to discuss the projected rail access and light

rail construction issues with Caltrans. Regular meetings are being held with Caltrans design, project control and field personnel to determine accurate access dates. After the dates have been identified in early 1991, analysis to

determine the effect on the overall project schedule.

4. Finalization of Overall Project Scope

Concern:

Decisions are required by the RCC regarding the vehicle fleet size and a go/no-go on the full Hawthorne Yard and Shop construction contract. Both issues have major budget and schedule impacts.

Action:

The above issues are on the agenda for the LACTC Commission meeting on December 19, 1990.

5. Kramer Property Hazardous Waste

Concern:

The impact of the final treatment of the Kramer property hazardous material has not been determined on SCE utility relocations or on the Kramer Bridge construction.

Action:

Soil reports have been submitted to SCE for review. The reports stated that the RCC should construct the pole foundations for SCE. The Department of Health and Services and other involved agencies are to meet on December 18, 1990 to discuss how to proceed with the construction of the bridge on the Kramer property site. This action is critical as the El Segundo Bridge Construction contract (C0110) was advertised on November 30 1990, and has an NTP scheduled for April 1991.

6. Radio Frequency Requirements

Concern:

At present there are no radio frequencies available for Metro Green Line construction and operational requirements.

Action:

It is incumbent upon the systems designer to specify radio communication needs and to advise the RCC of the impact of not having frequencies for the automated Green Line System.

7. System Testing

Concern:

In general, contract to contract coordination requirements are not addressed in the specifications for systems construction and installation, nor are procedures for integrated systems testing. There are few references to joint testing requirements, testing related correction requirements, staffing requirements to make tests or corrections, or for the critical timing involved with the testing procedures and remedies.

Action:

All systems contracts should have a new CSI format section entitled, "Facility Start Up/Commissioning", Section 01650, which covers integrated testing requirements, Systems Start-Up, (01655); Testing, adjusting, and balancing of systems, (01660); as well as systems demonstrations, (01670)

METRO GREEN LINE November 1990

8. Transcal II Design Packages

Concern:

Transcal II is developing an in-hours" Caltrans design priority list. Transcal's priority list was intended to create a sense of urgency for the design supporting Caltrans construction projects. The most recent publication, a schedule of design delivery dates extending into late April, are in conflict with the needs of current construction. The construction philosophy of Caltrans contractors preparing the light rail facilities in and around the Century Freeway may have to be abandoned, in Lieu of the inherently problematic alternative of two contractors working within the same freeway Right-of-way, each under separate direction and management. The unanticipated increased administrative and design packaging requirement of this alternative will significantly increase costs, construction time, and construction claims and the burden of coordination and management of the project.

Action:

Caltrans light rail design has to be expedited to incorporate all changes in the time table which supports construction and change-order negotiations.

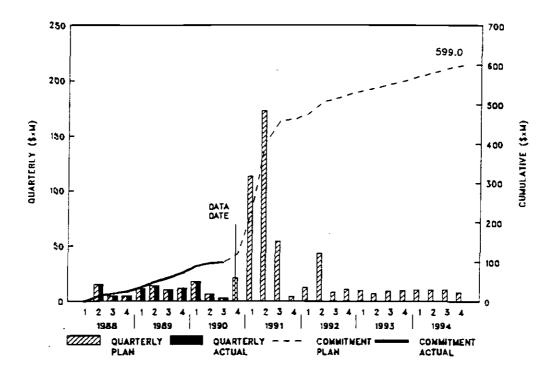
Page: 1 Report Date: 12/04/90 Status Date: 11/30/90

O'BRIEN-KREITZBERG CBE Project: R23 Period: 10/27/90 to 11/30/90

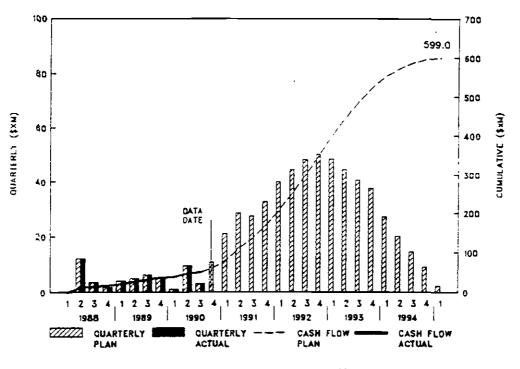
L.A. COUNTY TRANSPORTATION COMMISSION METRO GREEN LINE Project Cost by Element

{ \$ x 000's }

		Budge	c	Author	ized	Committe	ents	·· Incurred	Cost ···	· Expendi	tures ···	Current	
	<u>Description</u>	Original [1]	[2]	Period [3]	Io Date (4)	Period (5)	Jo Date [6]	Period (7)	To Date (B)	Period (9)	<u>lo Date</u> [10]	forecast (11)	Variance [11-2]
1	Construction	404,267	404 , 267	0	14,043	11,280	27,923	0	16,407	5,633	12,621	403,108	(1,159)
s	Professional Services	110,295	110, 295	0	32,695	2,335	74,332	2,803	39,963	945	33,628	112,770	2,475
R	Real Estate	35,0%	35,096	0	10,759	0	9,279	0	8,756	0	8,756	35,096	0
F	Utility/Agency Force Accounts	7,656	7,656	0	7,091	0	3,049	17	306	(5,622)	442	7,656	0
D	Special Programs	2,530	2,530	0	0	0	100	. 0	80	0	0	2,530	0
С	Project Reserve	55,782	55 ,782	0	0	0	0	0	0	0	0	54,466	(1,316)
A	Project Revenue	(16,626)	(16,626)	0	0	(21)	(984)	(21)	(317)	(21)	(317)	(16,626)	0
	Project Grand Total :	599,000	599,000	0	64,587	13,594	113,698	2,799	65, 194	935	55,130	599,000	0

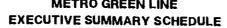


PROJECT COMMITMENTS

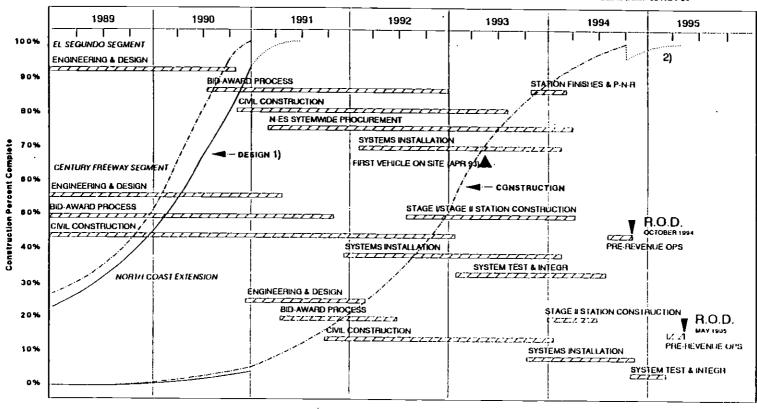


PROJECT CASH FLOW

RAIL CONSTRUCTION CORPORATION METRO GREEN LINE





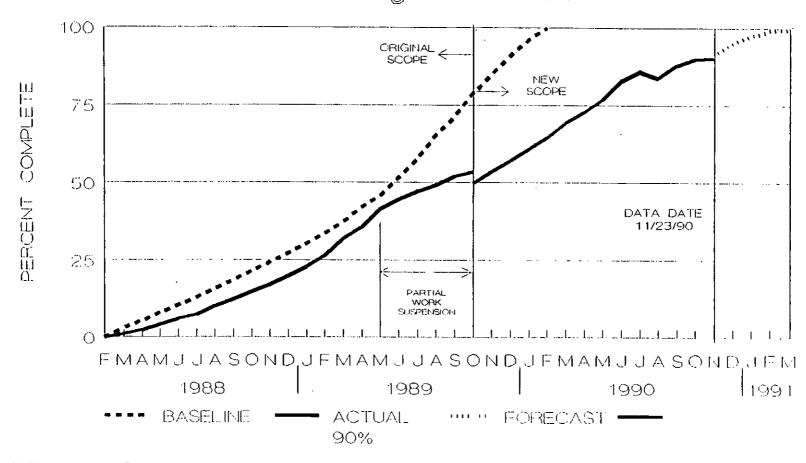


Note(s):

- 1) Excludes North Coast Extension
- 2) Includes North Coast Extension

LEGEND	
Planned	
Actual	
Forecast	

TRANSCAL II DESIGN ENGINEERING **Progress Curve



Excludes Administrative Level of Effort Activities

DEE: URCEROG

1 YEAR OUTLOOK

GREEN LINE PROJECT SCHEDULE STATUS / KEY EVENTS

R23

									DATA DATE:	30 NOV 90	90/	91	
	1990			1991									
•	November Decembe		December	January	February	March	April	May	June	July	August	September	October
	Plan	Actual	Moduglarys.	1. 50 (1951)	ন ইউটোমট্ডাইন	- 70m mails omelie	1169/89/2014	5,300,528,2300,0	4 12 888 GEOGLE	10 89 C 14.0	1.00	10/843	1.
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EG Contract Compit	1				ļ		ŀ		1 1	ŀ			

NOTE:

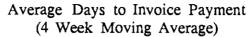
- 1.) REPORT REFLECTS ONLY CONTRACT PACKAGES FOR MAJOR SYSTEMS.
 2.) CONSTRUCTION PROGRESS BASED ON LRT WORK ONLY.

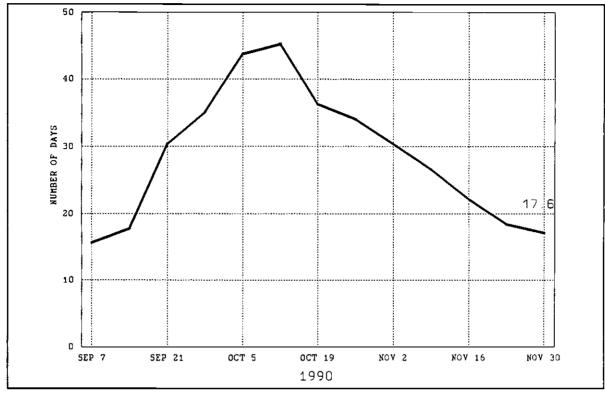
Real Estate - Status Summary

CCU	NO. OF	NUMBER	JUST COMP	OFFERS	AGREEMEN'	r condem-	PARCELS	PARCE	LSCONSTRUCT
	PARCELS	CERT'D	APPROVED	MADE	SIGNED	NATION	AVAIL.	NOT AV	AIL. NTP DATE
C100	8	8	N/A	N/A	N/A	1		7	05/13/91
C101	19*	18	N/A	N/A	N/A	3	8	8,*	11/26/91
C110	3	3	N/A	N/A	N/A			3	04/01/91
C400 TOTAL	3 34	3 33	N/A N/A	N/A N/A	N/A N/A	4	2	2 20	04/30/91

Note: "N/A" Activities identified above are not directly related to required Right Of Entry for the contract packages specified.

^{*} Number includes exhibit A, railroad right of entry





The following is a list of the actual number of invoices and dollar amounts of invoice payments for the past three months.

	Number of	Invoice
Date	Invoices	Amount
09/07/90	0	0
09/14/90	3	\$ 327,891
09/21/90	4	35,187
09/28/90	1	308,820
10/05/90	3	1,420,998
10/12/90	0	0
10/19/90	0	0
10/26/90	4	1,766,389
11/02/90	4	464,040
11/09/90	0	0
11/16/90	2	361,506
11/23/90	1	2,301
11/30/90	1	5,896

EXECUTIVE SUMMARY

As of November 30, 1990, The MOS-1 Revenue Operations Date (ROD) remains September 1993. The critical path in this schedule is dependent on trackwork access, whereby all tunnel and station contracts must complete their work in the trackbed area so that the trackwork contractor (Contract A610) can place the top concrete level and lay the rail. Contract A141, Line Section from Union Station to 5th/Hill and Civic Center Station and Contract A130, Yard Leads and Transfer Zone are the latest contracts to achieve trackwork access. Delays to either contract could impact the MOS-1 schedule. The trackwork contractor has completed work in the Contract A141 south tunnels and is now working the north AR tunnel which should be complete by January 1991. Remaining work in the AR tunnel of the Contract A130, Yard Leads and Transfer Zone can then be completed in January 1991, leaving only the AL fire tunnel and the Contract A175, Wilshire/Alvarado Station. The AL tunnel construction is proceeding slowly and it may be necessary to change the plan to work around this delay.

Schedule improvement continued to be a major activity during November. Work arounds and mitigation measures were implemented with Contract A610, Trackwork, and Contract A130, Yard Leads and Transfer Zone, due to delays caused by the July 13, 1990, fire in the YL tunnel.

Contract A165, 7th/Flower Station, Stage I, substantially completed construction on November 2, 1990, in time for the holiday shopping season. The 7th Street merchants celebrated restoration of the street. Contract A167 7th/Flower Station, Stage II continued to work toward early opening of the Blue Line Station.

The value of work in place for MOS-1 construction is 70.2% complete versus a plan of 72%. 47 of the total 68 MOS-1 contracts have been advertised and eleven contracts are complete.

The original MOS-1 baseline budget was \$1,249 million. The current forecast is \$1,450 million. Current contingency for MOS-1 is listed in the Revision 7F financial plan at \$80 million.

All of the Real Estate required for MOS-1 construction is available either under ownership or under a right-of-entry. 14 parcels are in the acquisition process.

EXECUTIVE SUMMARY (CON'T)

PDCD has activated a systemwide conduit activation team to alleviate problems with station conduit prior to impact dates. The team consists of a manager, two Engineers, and two Inspectors and is currently focusing its efforts at the 7th and Flower Station and in the Yard.

AREAS OF CONCERN

1. Contract A136, Union Station, Stage II

Concern: Contract A136 was given NTP on October 22, 1990,

instead of July 30, 1990, as planned. This delay could

potentially impact the follow-on contractors.

Action: A change notice was negotiated with the A136

contractor changing access requirements which will support earlier turnover of the Train Control Room to contracts A620, Automatic Train Control, and A640, Communications. PDCD will continue to monitor these

dates to ensure on-time completion.

2. Contract A141, Line U/S to 5th/Hill and Civic Center Station

Concern: Certain portions of the tunnel appear to be out of

alignment which could potentially impact the dynamic

envelope.

Action: The contractor submitted a proposal for resolution and

resumed work in the tunnel. PDCD is conducting

additional surveys of tunnel alignments.

3. Contract A130. Yard Leads and Transfer Zone

Concern: Slow progress in reconstruction of the YL Tunnel

damaged by the July 13, 1990, fire is delaying tunnel construction which may ultimately delay access to the

trackwork contractor.

Action: The contractor has been directed to complete tunnel

reconstruction and progress with tunnel completion in order to meet a Feburary 16, 1991, turnover to the trackwork contractor. In order to mitigate impact to the Project critical path, the trackwork contractor has been

resequenced to pour the A141 AL tunnel leaving the

A130 YL tunnel for last.

AREAS OF CONCERN (CON'T)

4. Contract A167, 7th/Flower Station, Stage II

Concern: The Blue Line portion of the station must be available for

integrated testing and pre-revenue operations by

December 20, 1990.

Action: PDCD has increased managment influence at the

construction site and is working with RCC personnel and

the contractor to meet the required dates.

5. Contract A650, Vehicles

Concern: Previously reported concerns about the propulsion

system delay may impact delivery of the vehicles to Los Angeles for system testing. This could impact the

Project critical path.

Action: The RCC has reviewed a plan which would alter vehicle

testing sequence at the Transportation Test Center to release the first pair of vehicles directly to Los Angeles by the dates required to support systems testing. Other measures may be implemented following the quarterly

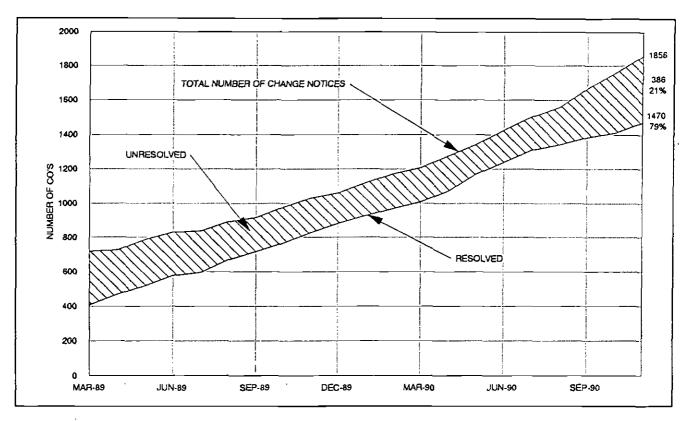
review meeting in Italy.

STATUS DATE: 11/30/90

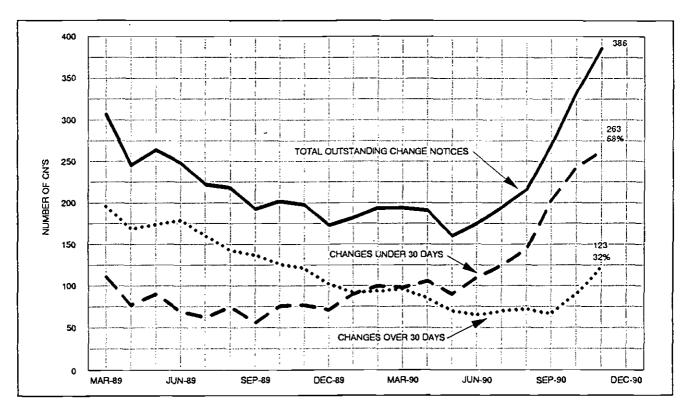
RAIL CONSTRUCTION CORPORATION PROJECT COST REPORT - METRO RED LINE (MOS-1) SUMMARY BY COST ELEMENT

(IN THOUSANDS)

PROJECT: R80	(1)	(2)	(E) UA	(4) THORIZED	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
METRO RED LINE	BUDGET		FOR EXPENDITURE		COMMITMENTS		INCURRED COST		EXPENDITURES		FORECAST	
DESCRIPTION	ORIGINAL	CURRENT	PER100	TO DATE	PER 100	TO DATE	PERIOD	TO DATE	PER100	TO DATE	CURRENT	(11-2) VARIANCE
CONSTRUCTION	695,849	700,288	0	669,474	48,889	628,509	5,588	442,195	8,475	446,514	729,624	29,336
PROFESSIONAL SERVICES	397,760	432,851	0 .	318,543	0	316,529	7,163	310,410	6,590	359,219	482,571	49,720
REAL ESTATE	90,894	131,047	0	110,331	0	110,331	0	105,315	0	105,315	139,501	8,454
UTILITY/AGENCY FORCE ACCOUNTS	11,224	16,725	0	10,128	0	10,128	0	8,598	269	8,598	16,425	(300)
SPECIAL PROGRAMS	948	948	0	508	0	508	0	196	0	196	948	0
PROJECT RESERVE	53,225	72,041	0	0	0	0	0	0	0	0	80,950	8,909
PROJECT REVENUE	. 0	0	0	0	0	0	0	0	0	(1,694)	0	0
GRAND TOTAL PROJECT	1,249,900	1,353,900	0	1,108,984	48,889	1,066,005	12,751	866,714	15,334	918, 148	1,450,019	96,119

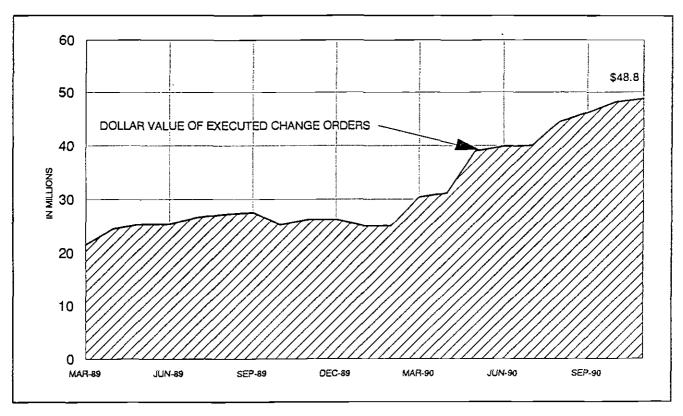


Change Notice Resolution

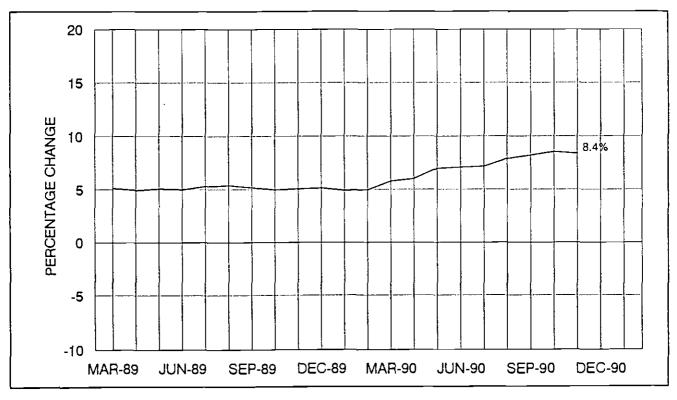


Change Activity Progress

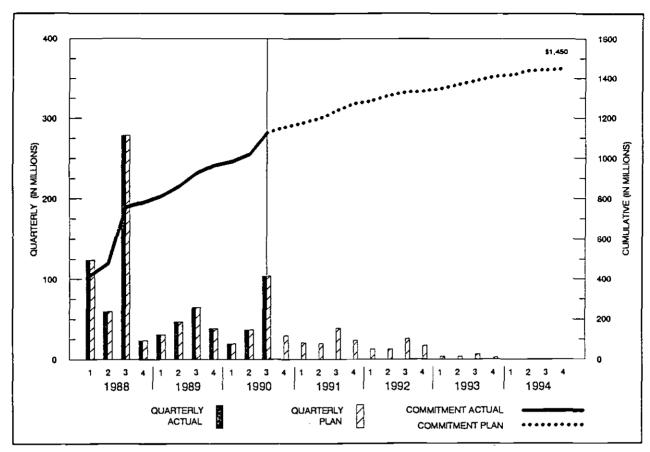
METRO RED LINE NOVEMBER 1990



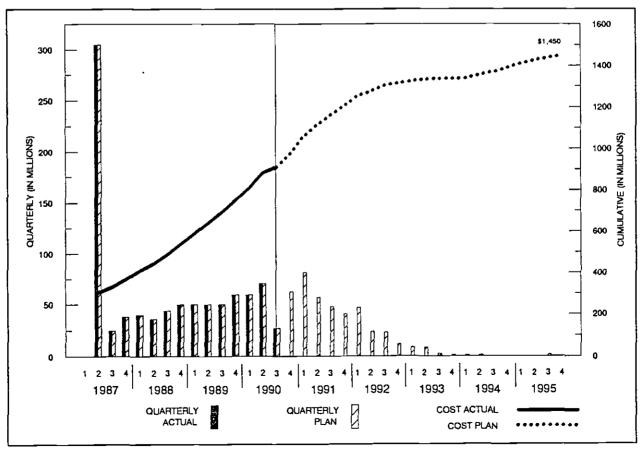
Total Value of Executed Change Orders



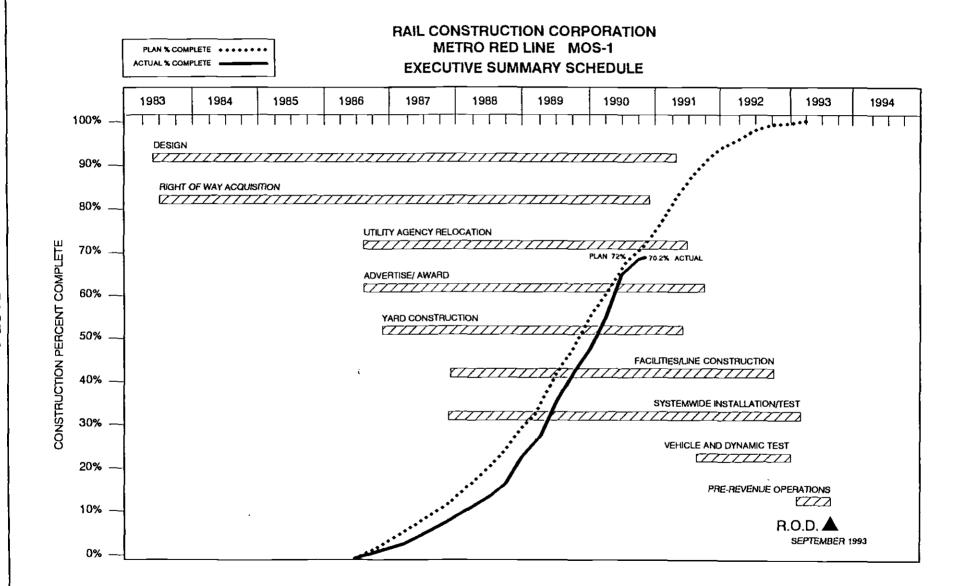
Change Order Dollars as a Percentage of Original Contract Award



METRO RED LINE MOS-1 COMMITMENT PLAN



METRO RED LINE MOS-1 CASH FLOW



MOS-1 KEY PROJECT EVENTS

ONE YEAR OUTLOOK

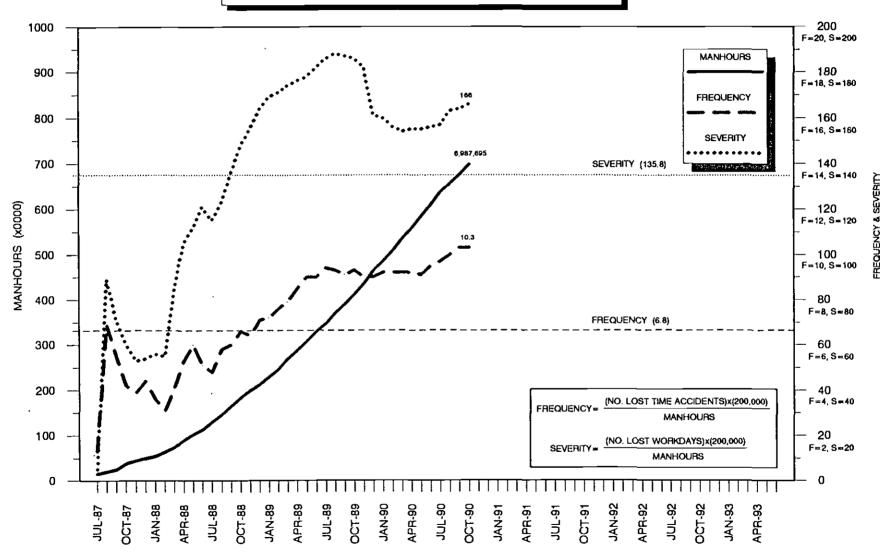
		PLAN	ACT]											
		NOV	90	DEC	JAN	91	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
60%	Design Submittal	1	2	1								}			
85%	Design Submittal	1		2	1		}	}						1	}
100%	Design Submittal				3			1		ļ					
	TOTAL	2	ୃ2୍	3	4			1							
CR	Camera Ready						[[1	
AD	Advertise	1		1			3		1						
BD	Bid Due				1		1		1		1				
AW	Award	1	1				1		<u> </u>	3		1			
RE	Real Estate								1						
NTP	Notice to Proc.			1	_			1			3		1		
vs	Veh. Ship							2	2	1					
VT	Veh. test (TTC)													2	2
VA_	Veh. Arrival (LA)		[
LIQ	Liquid. Milest.	2	3	3	2		4	2	10	5	2	4	3	3	4
cc	Contract Complt.			1		_	1	2	2	3	1		2		2

NOTE: Report reflects only contract packages for major systems.

SUMMARY

Award of Contract A118, Yard Landscaping, was rescheduled to a later date to allow inclusion with the maintenance plan. Contract A710, Escalators/Elevators, liquidated damage milestone in the 7th/Flower Station was extended to December 1990 by a change order. This change order was issued to insure completion of escalators and elevators for the early opening of the Blue Line Station. Due to an access window to move equipment into the stations, Contract A710 fans were delivered early to Contract A136, Union Station, Contract A147, Civic Center and Contract A157, 5th/Hill Station.

MOS-1
MANHOURS & FREQUENCY, SEVERITY RATES



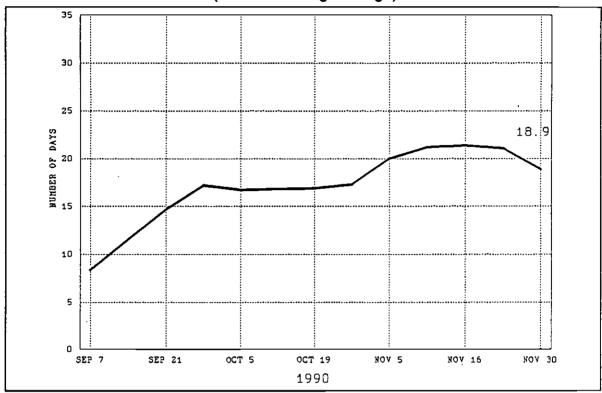
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ccu	NO. OF PARCELS	NUMBER CERTO	JUST COMP APPROVED	OFFERS MADE	AGR'MNT SIGNED	CONDEM- NATION	CLOSED PARCELS	OPEN/ROP PARCELS		PARCELS NOT AVAILABLE
A112	1	1	1	1	1	0	1	0	1	0
A130	16	16	16	16	12	4	14	2	16	o
A135	7	7	7	7	5	2	4	3	7	0
A141	18	18	18	18	18	0	17	1	18	0
A145	13	13	13	13	12	1	11	2	13	0
A146	11	11	11	11	4	7	7	4	11	0
A165	3	3	3	3	1	2	2	1	3	0
A171	14	14	14	14	13	1	14	O	14	0
A175	10	10	10	10	_. 5	5	9	1	10	0
A610	. 1	1	1	1	1	0	1	0	1	0
TOTAL	94	94	94	94	72	22	80	14	.94	0

MOS-1 REAL ESTATE - STATUS SUMMARY

All of the real estate required for MOS-1 construction is available either under ownership by the District or under a Right-of-Entry. There are 14 parcels which are currently in the acquisition process.

Average Days to Invoice Payment (4 Week Moving Average)



The following is a list of the actual number of invoices and dollar amounts of invoice payments for the past three months.

Date	Number of Invoices	Invoice Amount
09/07/90	13	5,980,869
09/14/90	2	1,487,779
09/21/90	4	867,397
09/28/90	5	1,150,809
10/05/90	11	5,283,436
10/12/90	11	5,058,663
10/19/90	7	2,478,417
10/26/90	14	4,760,021
11/02/90	5	3,173,876
11/09/90	23	13,193,824
11/16/90	11	864,680
11/23/90	5	2,585,946
11/30/90	5	817,613

EXECUTIVE SUMMARY

The Metro Red Line MOS-2 current budget is \$1,446 million with a current forecast of \$1,446 million. The cashflow plan reflects a total project expenditure to date of \$42.5 million or 3% of the total forecast. The project commitments to date are \$42.6 million which are primarily for Design Consultant and Real Estate Contracts.

The following items have been identified this month as **potential cost increases** and trend notices have been issued or are in process: disputes review board; new quality control measures; contractor safety awareness program; addition of Contract B731 Major Shop Equipment; and the addition of a configuration management contract.

The **Master Schedule** update with status through November 30, 1990, shows that the *project is currently on schedule*.

The overall MOS-2 design is approximately 38% complete versus the planned 40% completion. Construction is scheduled to commence in January 1991. Bids were opened for Wilshire/Alvarado to Wilshire/Vermont Line, Contract B201.

The **critical path for the Wilshire Line** is through the Wilshire/Normandie Station and Line, Contract B221, installation of systems, and the integrated testing with ROD in July 1996. The **critical path for the Vermont/Hollywood Line** is through the Hollywood/Western Station and Tunnels, Contract B271, installation of systems, and the integrated testing with ROD in September 1998.

There are 65 parcels of land required for MOS-2 with status as follows: 15 full takes, 6 partial takes, 42 subsurface easements, and 2 temporary construction easements. These acquisitions will involve the relocation of approximately 114 commercial businesses. To date 1 MOS-2 parcel has been acquired, 13 offers to purchase are open, and 5 condemnations have been obtained from the Los Angeles Superior Court.

To date no safety incidents have been reported as no construction contracts have been issued Notice to Proceed. Reporting on safety-related issues is anticipated to begin in early 1991.

AREAS OF CONCERN

1. Property Availability

Concern: Assure required property is available for NTP for Demolition Contract,

B218.

Action: RCC to investigate and provide recommendations.

2. Insurance

Concern: Owner-Controlled Insurance Plan not assigned for Contract B201.

Action: RCC to approve.

3. MacArthur Park Agreement

Concern: There are potential cost and schedule impacts if agreement is not

reached between the RCC and Los Angeles Department of Recreation and Parks (DRP) for the MacArthur Park agreement and

easement. (NTP scheduled 14-Jan-91)

Action: RCC to negotiate and finalize agreement with the City.

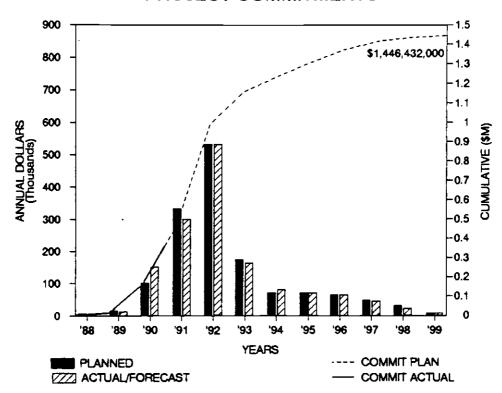
MRTC Project: R81

RAIL CONSTRUCTION CORPORATION METRO RED LINE MOS-2 Project Coat by Element

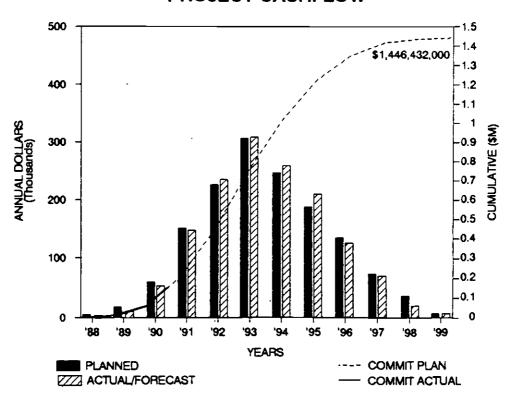
(\$ x 000's)

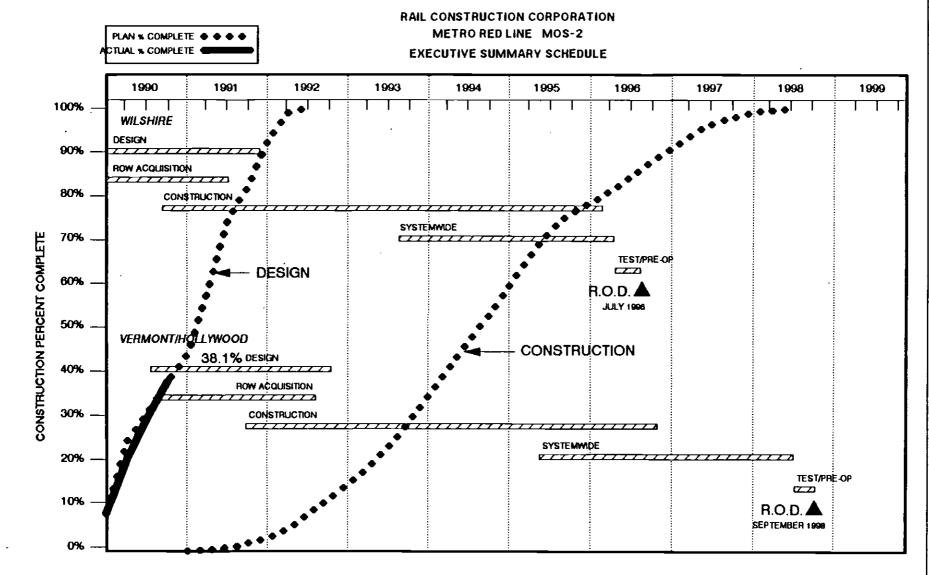
}	Budget				Authorized Commitments Incurred Costfor Expenditure-						Expenditures Current			
	DESCRIPTION	ORIGINAL	CURRENT	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	FORECAST	VARIANCE	
		[1]	[5]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[11-2]	
Ţ	Construction	893,000	918,565	0	2,946	14	3,013	14	3,013	14	3,013	928,438	9,872	
s	Professional Services	289,150	286,592	17,690	40,244	1,325	24,894	1,485	24,849	1,511	24,849	275,675	(10,917)	
R	Real Estate	79,827	76,735	258	11,616	195	14,662	195	14,650	195	14,650	72,339	(4,3%)	
F	Utility Relocation	36,668	29,949	0	0	0	69	1	13	1	13	29,942	(7)	
0	Special Programs	2,044	2,047	0	0	0	0	0	0	0	0	2,047	0	
С	Project Reserve	145,743	132,544	0	0	0	0	0	0	0	0	137,988	5,444	
A	Project Revenue	0	0	0	0	0	0	0	O	0	0	0	0	
	Project Grand Total:	1,446,432	1,446,432	17,948	54,806	1,534	42,638	1,695	42,525	1,721	42,525	1,446,432	0 =========	

PROJECT COMMITMENTS



PROJECT CASHFLOW





Page

O

1 YEAR OUTLOOK

MOS-2 PROJECT STATUS / KEY EVENTS TOTAL

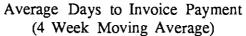
DATA DATE: 30 NOV 90

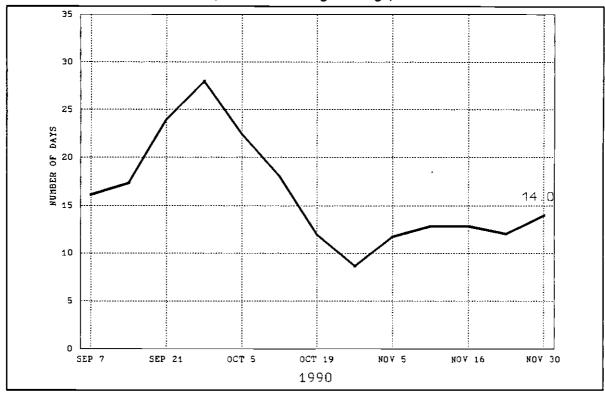
PKG	LOC	DSN	CON	NOV	90	DEC	JAN	91	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
		`		PLAN	ACT												i —
60%	Design	Subm	ittal	1			1				2	2		1		3	1
85%	Design	Subm	ittal	1	1					1		1	1	2	1	1	1
100%	Design	Subm	ittal	1			1							1	2	2	2
	TOTAL			2			2		2000	1	2	3	1	4	3	6	4
CR	Camera	Read	,			1	1		1						1	2	
AD	Adverti	se			ļ	1	1		1]	1		
BD	Bid Due	•		1	1	1			2		1						1
AW	Award					2	1				2			1			
RE	Real Es	tate				2	1			ĺ	1	2				1	
NTP	Notice	to Pi	·oc.	ŀ			2		1		1	<u> 1</u>		1			
MFG	Manufac	turir	1 9														
SD	Deliver	y Sta	art											1	ļ		
FD	Deliver	y Fir	nish												1		
LIQ	Liquid.	Mile	est.														
INT	Interfo	. Mil	est.														
cc	Contrac	t Con	πρlt.						1					1			

NOTE: REPORT REFLECTS ONLY CONTRACT PACKAGES FOR MAJOR SYSTEMS.

Real Estate - Status Summary

	NO. OF	NUMBER	JUST COMP	OFFERS	AGRMNT	CONDEMN	PARCEL	S PARCELS	CONSTRUCT
CCU	PARCELS	CERT'D	APPROVED	MADE	SIGNED	FILED	AVAIL	NOT AVAIL	NTP DATE
B201	4	4	1					4	01/11/91
B211	1							1	07/25/91
B218	1	1		1	1	1		1	01/03/91
B219	5	. 5	3	3		2		5	05/13/91
B221	15	13	9	6	1			15	04/24/91
B231	3	3	3	2		2		3	01/28/91
B241	2							2	01/06/93
B251	20							20	02/04/92
B252	3							3	06/24/92
B261	3							3	04/21/93
B271	7		1	1	1		1	6	06/04/92
B281	_1	1						1	11/25/92
TOTAL	65	27	17	13	3	5	1	64	





The following is a list of the actual number of invoices and dollar amounts of invoice payments for the past three months.

	Number of	Invoice
Date	Invoices	Amount
09/07/90	1	\$ 4,483
09/14/90	3	349,345
09/21/90	3	14,341
09/28/90	2	1,463,140
10/05/90	0	0
10/12/90	0	0
10/19/90	4	4,165,505
10/26/90	2	13,000
11/02/90	2	3,173,876
11/09/90	2	(3,145,668)
11/16/90	4	2,139,286
11/23/90	1	724
11/30/90	1	7,500