

# RAIL CONSTRUCTION CORPORATION



## Executive Report Rail Program Status



**Rail  
Construction  
Corporation**



A Subsidiary of  
the Los Angeles County  
Transportation Commission

# **RAIL PROGRAM STATUS SUMMARY**

## RAIL PROGRAM STATUS SUMMARY

<b>Metro Red Line Segment 1</b>			
<b>Cost Status</b>		<b>Project Progress</b>	
	(\$000)		
Original Budget	1,249,900	Design:	
Expended to Date	1,387,918 *	Actual:	100%
Current Budget	1,450,019	Construction:	
		Actual:	99%
<b>Schedule Status</b>			
Revenue Operations Date:			
Original	April 1992		
Actual	January 1993		
<b>Metro Red Line Segment 2</b>			
<b>Cost Status</b>		<b>Project Progress</b>	
	(\$000)		
Original Budget	1,446,432	Design:	
Expended to Date	443,037 *	Actual:	93%
Current Budget	1,446,432	Construction:	
		Actual:	21%
<b>Schedule Status: Revenue Operations Dates:</b>			
	Wilshire Vermont/Hlywd		
Original	Jul '96 Sep '98		
Forecast	Jul '96 Sep '98		
<b>Metro Red Line Segment 3 - North Hollywood Extension</b>			
<b>Cost Status</b>		<b>Project Progress</b>	
	(\$000)		
Original Budget	1,310,822	Design:	
Expended to Date	15,109 *	Actual:	0%
Current Budget	1,310,822	Construction:	
		Actual:	0%
<b>Schedule Status</b>			
Revenue Operations Date:			
Original	2000		
Forecast	2000		
<b>Metro Red Line Segment 3 - Mid-City Extension</b>			
<b>Cost Status</b>		<b>Project Progress</b>	
	(\$000)		
Original Budget	490,663	Design:	
Expended to Date	25 *	Actual:	0%
Current Budget	490,663	Construction:	
		Actual:	0%
<b>Schedule Status</b>			
Revenue Operations Dates:			
Original	1999		
Forecast	1999		
<b>Metro Green Line (Budget and forecast excludes North Coast Segment)</b>			
<b>Cost Status</b>		<b>Project Progress</b>	
	(\$000)		
Original Budget	671,000	Design:	
Expended to Date	349,302 *	Actual:	99%
Current Budget	722,402	Construction:	
		Actual:	58%
<b>Schedule Status</b>			
Revenue Operations Date:			
Original	October 1994		
Forecast	May 1995		

\* Expenditure data through May 1993

**Metrolink (includes 4 start-up lines, shared facilities, and LAUPT) \*\***

Cost Status (\$000)		Project Progress	
Original Budget	473,262	Design:	
Expended to Date	338,052 *	Actual:	100%
Current Budget	473,262	Construction:	
Schedule Status: Revenue Operations Dates:		Actual:	100%
Original	October 1992		
Actual	October 1992		
Actual (Union Pac)	June 1993	** (This is the final Metrolink Summary)	

**Metro Pasadena Line**

Cost Status (\$000)		Project Progress	
Original Budget	841,000	Design:	
Expended to Date	16,689 *	Actual:	28%
Current Budget	841,000	Construction:	
Schedule Status		Actual:	0%
Revenue Operations Date:			
Original	November 1997		
Forecast	November 1997	* Expenditure data through May 1993	

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

STATUS DATE: 06/25/93

(IN THOUSANDS)

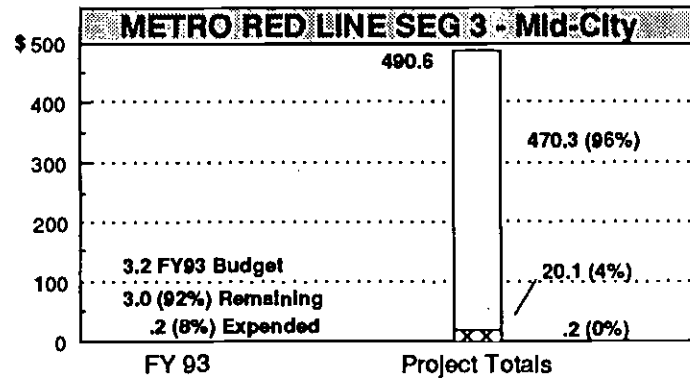
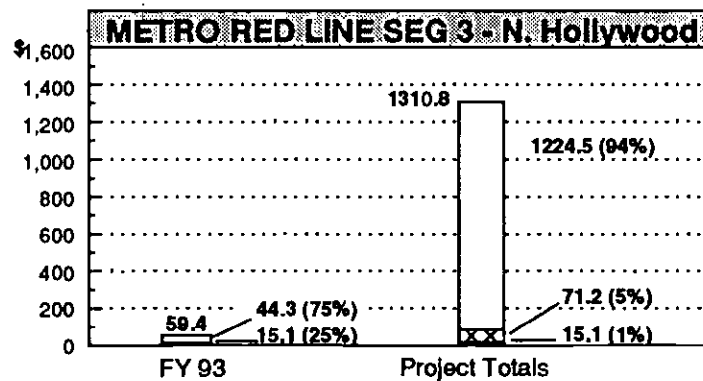
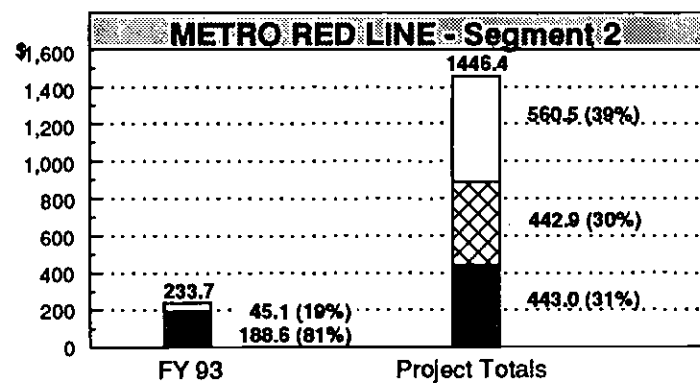
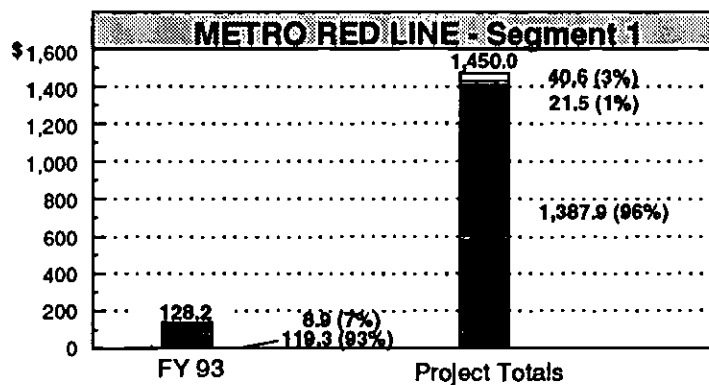
PROJECT: TOTAL RAIL PROGRAM

ELEMENT DESCRIPTION	BUDGET		COMMITMENTS		INCURRED COST		EXPENDITURES		CURRENT	VARIANCE
	ORIGINAL (1)	CURRENT (2)	PERIOD (3)	TO DATE (4)	PERIOD (5)	TO DATE (6)	PERIOD (7)	TO DATE (8)	FORECAST (9)	(9-2) (10)
T CONSTRUCTION	4,296,583	4,507,371	64,722	2,263,835	32,775	1,774,193	34,397	1,718,841	4,495,290	(12,081)
S PROFESSIONAL SERVICES	1,453,048	1,734,283	89,016	1,190,372	23,459	916,306	27,041	925,045	1,725,294	(8,989)
R REAL ESTATE	453,432	517,647	13,382	284,162	4,121	266,857	5,362	266,772	524,010	6,363
F UTILITY/AGENCY FORCE ACCOUNTS	132,187	118,439	2,258	92,246	941	75,977	998	75,732	127,066	8,627
D SPECIAL PROGRAMS	11,044	20,870	363	5,970	37	1,246	7	1,247	24,164	3,294
C CONTINGENCY	452,990	276,392	0	0	0	0	0	0	282,576	6,184
A PROJECT REVENUE	(18,115)	(36,395)	0	(819)	0	(6,410)	0	(6,410)	(36,695)	(300)
PROJECT GRAND TOTAL	6,781,169	7,138,607	169,741	3,835,766	61,333	3,028,169	67,805	2,981,227	7,141,705	3,098

NEW REQUIREMENTS DESCRIPTION	BUDGET		COMMITMENTS		INCURRED COST		EXPENDITURES		CURRENT	VARIANCE
	ORIGINAL (1)	CURRENT (2)	PERIOD (3)	TO DATE (4)	PERIOD (5)	TO DATE (6)	PERIOD (7)	TO DATE (8)	FORECAST (9)	(9-2) (10)
T CONSTRUCTION	0	55,024	0	0	0	0	0	0	60,014	4,990
S PROFESSIONAL SERVICES	0	8,226	0	4,465	0	4,325	(606)	1,562	8,226	0
R REAL ESTATE	0	0	0	0	0	0	0	0	0	0
F UTILITY/AGENCY FORCE ACCOUNTS	0	0	0	0	0	0	0	0	0	0
D SPECIAL PROGRAMS	0	0	0	0	3	3	3	3	98	98
C CONTINGENCY	0	2,000	0	0	0	0	0	0	0	(2,000)
A PROJECT REVENUE	0	0	0	0	0	0	0	0	0	0
NEW REQ. SUBTOTAL	0	65,250	0	4,465	3	4,328	(603)	1,565	68,338	3,088
PROJECT GRAND TOTAL	6,781,169	7,203,857	169,741	3,840,231	61,336	3,032,497	67,202	2,982,792	7,210,043	6,186

This report includes total project costs for the Metro Blue Line of \$877,271.  
It does not include project costs for any Metrolink start-up lines.

**BUDGET STATUS - June 25, 1993**  
(In \$ Millions)



**BUDGET STATUS - June 25, 1993**  
(in \$ Millions)

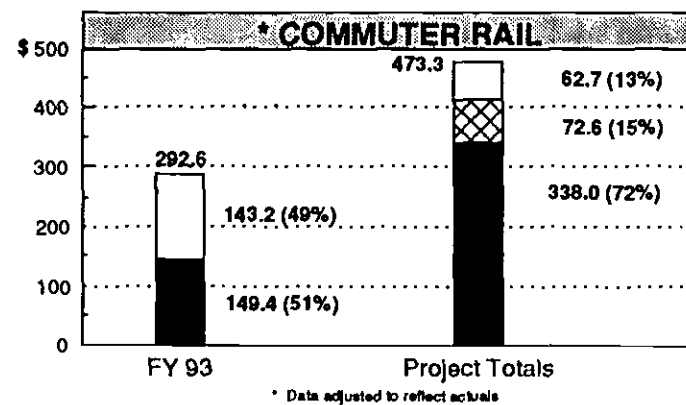
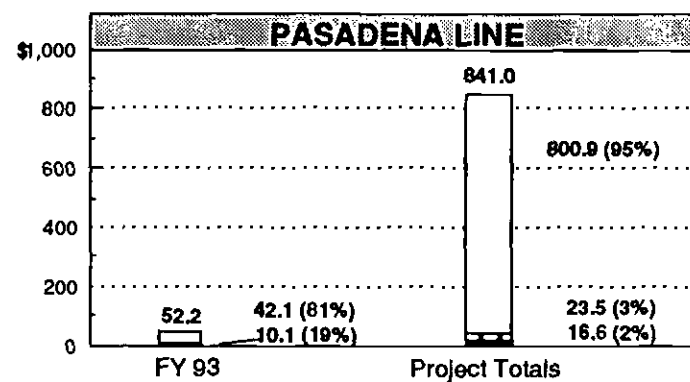
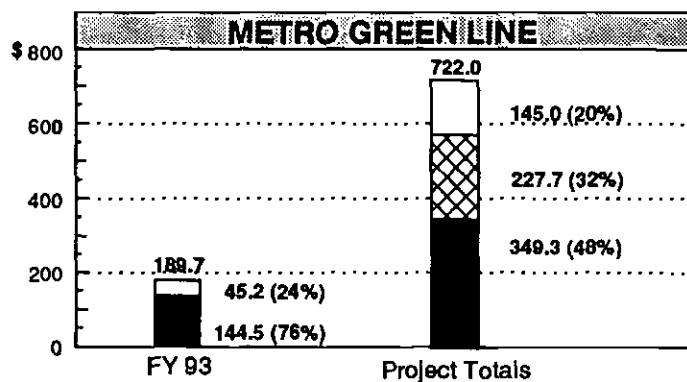
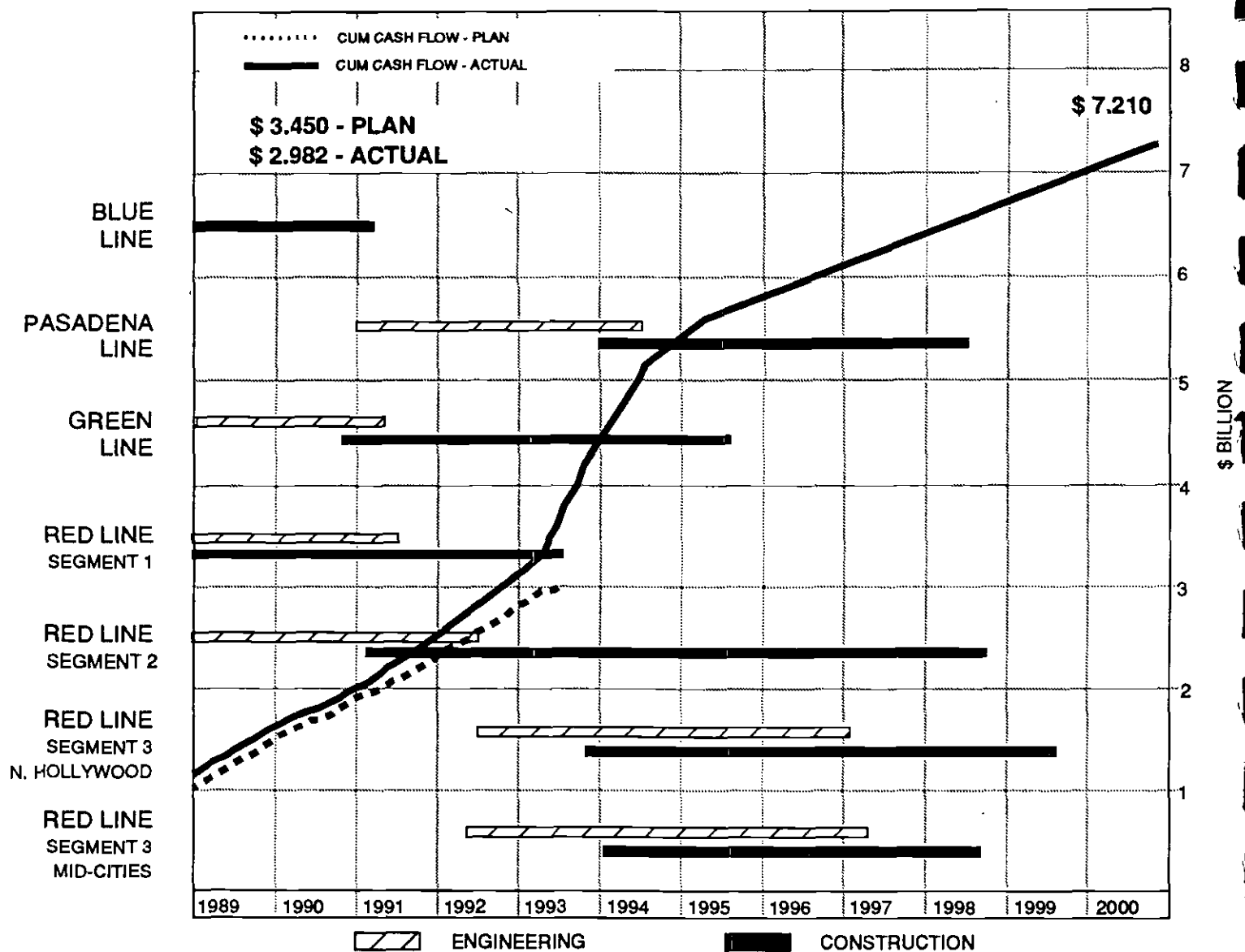


Figure 1 - Rail Construction Plan





## RAIL CONSTRUCTION FUNDING SOURCES

(IN MILLIONS)

	METRO BLUE LINE*		PASADENA LINE		METRO GREEN LINE		METRO RED SEG 1**		METRO RED SEG 2		METRO RED LIN SEG 3 - NH		METRO RED LIN SEG 3 - MC		TOTAL PROGRAM	
	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%
FTA-SECTION 3							605.3	42	667.0	44	681.0	52	242.6	49	2195.9	30
FTA-SEC 3 DEFERRED LOCAL SHARE																
ISTEA											25.0	2	55.4	11	80.4	1
FLEXIBLE CONGESTION RELIEF													26.0	5	26.0	0
FTA-SECTION 9							90.6	6							90.6	1
STATE			405.6	48			210.3	15	186.0	12	190.0	14	72.3	15	1064.2	15
SB 1995 TRUST FUND											53.0	4			53.0	1
PROPOSITION A	877.2	100			205.1	28	179.5	12	439.4	29					1701.2	24
TRANSIT ENHANCEMENT (PROP A/C)									63.2	4					63.2	1
PROPOSITION C			435.4	52	509.5	70					344.7	26	94.4	19	1384.0	19
IMPERIAL HWY GRD SEP (STATE TCI)					4.5	1									4.5	0
AMERICAN DISABILITY ACT (PROP C)					6.4	1			5.1	0					11.5	0
CITY OF LOS ANGELES							34.0	2	96.0	6					130.0	2
BENEFIT ASSESSMENT							130.3	9	58.0	4	17.1	1			205.4	3
COST OVERRUN ACCOUNT							200.1	14							200.1	3
FORECAST																
TOTAL	877.2	100	841.0	100	725.5	100	1450.1	100	1514.7	100	1310.8	100	490.7	100	7210.0	100

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

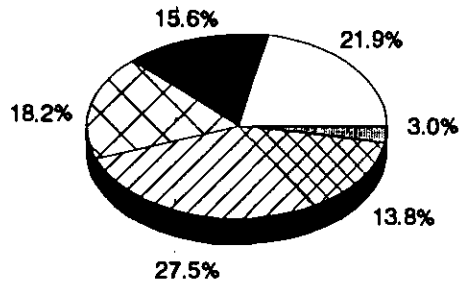
\*\* LRT PORTION INCLUDED IN BLUE LINE FORECAST.

# METRO PROGRAM CHANGES BY COST LEVEL AND BASIS CONSULTANT CONTRACT CHANGES

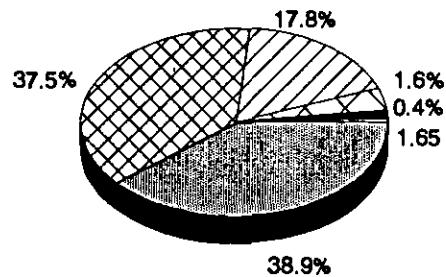
## COST LEVEL

Total: \$46.2 Million

VOLUME



DOLLARS

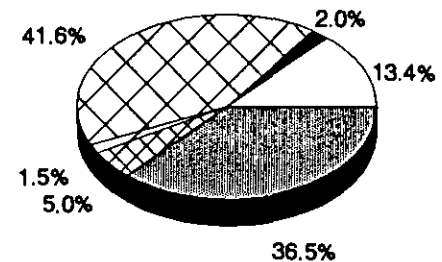
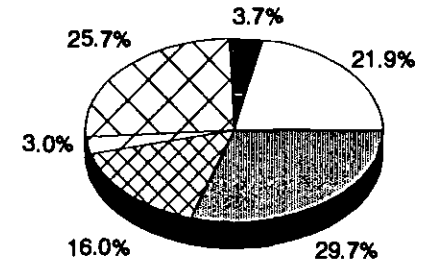


### Legend

Cost Range		Basis
\$ 0-10K		OTHER AGENCIES
10-25K		SCHEDULE REVISION
25-50K		CONTRACT CHANGES
50-200K		CLAIMS/DISRUPTIONS
200K-1 MIL		SPECIAL STUDIES
ABOVE 1 MIL		STAFFING/EQUIPMENT

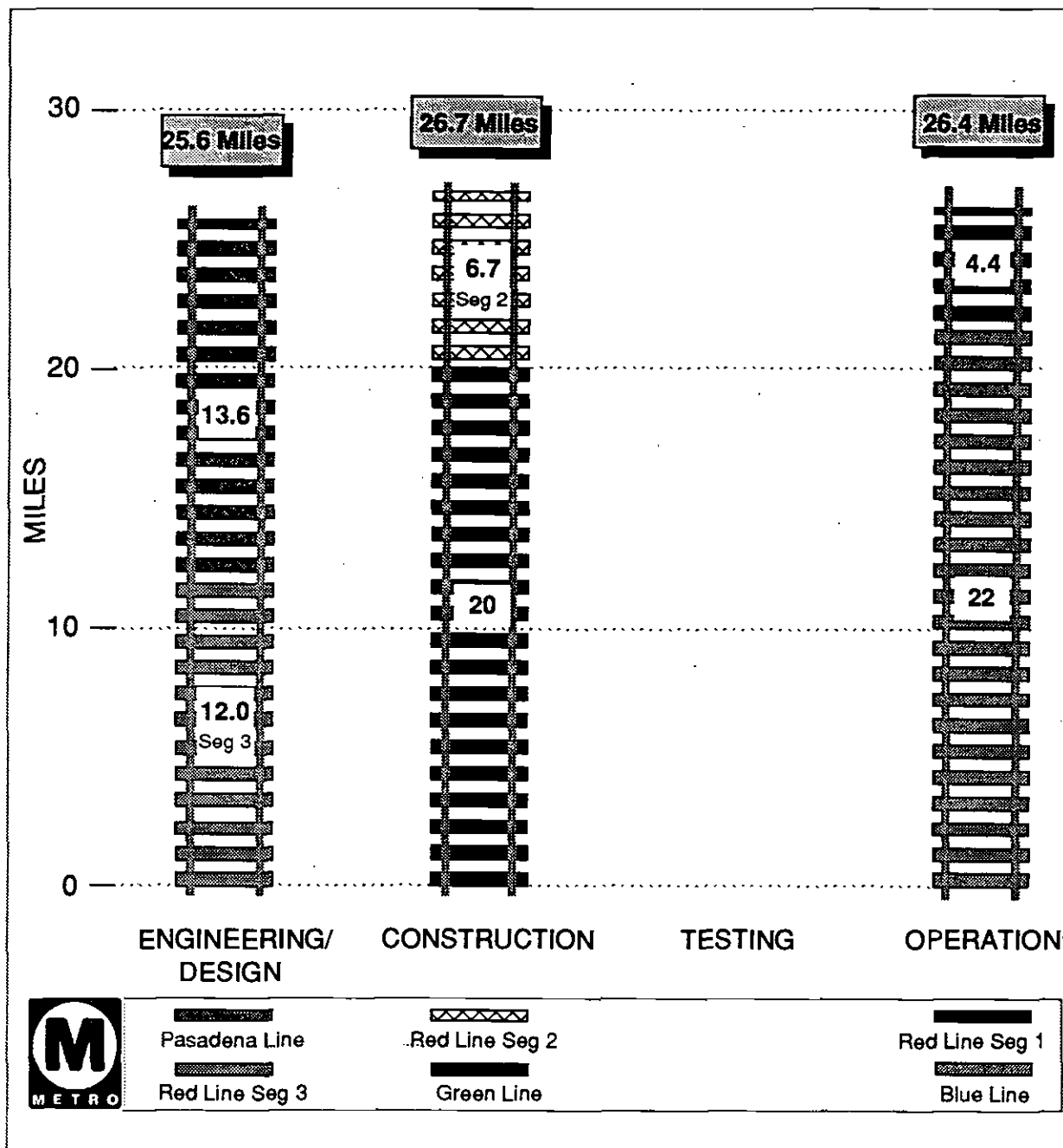
## BASIS

Total: 269



DATA AS OF 06/25/93  
REQUESTED CHANGES SINCE 05/01/91 ONLY

## METRO RAIL SYSTEMS PROGRESS REPORT



JUNE 1993

## REAL ESTATE

Figure 3 - Real Estate Acquisition Status Summary

	Number of Parcels	Number of Parcels Available	Parcels Not Available (on Schedule)	Parcels Not Available (Behind Schedule)	
				Number	Avg. Days Behind
Pasadena Line	61	4	11	46	117
Green Line	39	39	0	0	0
Red Line Seg 2	86	65	9	12	66
Red Line Seg 3 NH	184	2	173	10*	70
Red Line Seg 3 MC	61	0	55	6*	150

\* All parcels on the critical path.

## MANAGEMENT ENGINEERING AND ADMINISTRATION COSTS

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.

The RCC corporate goal for project administration costs is 20%. The current cost forecast data for project administration costs totals 24.6% which exceeds the corporate goal by 4.6%. The percentage includes all costs previously expended by the SCRTD when the Metro Red Line Segment 1 project was under SCRTD management.

Staff costs are projected at 4.4% of total program costs, which just exceeds the 4% corporate goal by 0.4%. Figure 6 illustrates the forecast figures for each project and for total program.

Figure 6 - Cost Performance Relative to Corporate Goals

(IN THOUSANDS)

	METRO BLUE LINE		METRO PASADENA LINE		METRO GREEN LINE		METRO RED LINE SEGMENT 1		METRO RED LINE SEGMENT 2		METRO RED LINE SEGMENT 3 NH		METRO RED LINE SEGMENT 3 MC		TOTAL PROGRAM		CORPORATE GOAL
	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	DOLLARS	PERCENT	
CONSTRUCTION	657,487	74.95%	492,250	58.53%	500,522	68.99%	813,539	56.11%	1,030,191	68.01%	850,690	84.90%	339,227	69.14%	4,683,906	64.96%	
REAL ESTATE	55,592	6.34%	72,308	8.60%	28,522	3.93%	140,000	9.66%	89,751	5.93%	84,534	6.45%	53,303	10.86%	524,010	7.27%	
PROFESSIONAL SERVICES:																	
ENGINEERING/DES	69,587	7.93%	73,906	8.79%	73,166	10.08%	221,661	15.29%	142,426	9.40%	82,187	6.27%	33,000	6.73%	695,933	9.65%	
CONSTR MGMT.	91,642	10.45%	71,580	8.51%	70,339	9.70%	116,429	8.03%	132,203	8.73%	84,000	6.41%	35,000	7.13%	601,193	8.34%	
STAFF	17,655	2.01%	33,640	4.00%	27,607	3.81%	94,708	6.53%	70,237	4.64%	52,433	4.00%	19,627	4.00%	315,907	4.38%	4%
OTHER	14,222	1.62%	22,691	2.70%	18,213	2.51%	32,610	2.25%	22,979	1.52%	36,127	2.76%	10,506	2.14%	157,348	2.18%	
SUBTOTAL	193,106	22.01%	201,817	24.00%	189,325	26.10%	465,408	32.10%	367,845	24.28%	254,747	19.43%	98,133	20.00%	1,770,381	24.55%	20%
CONTINGENCY	983	0.11%	74,625	8.87%	13,649	1.88%	31,072	2.14%	27,283	1.80%	120,851	9.22%		0.00%	268,443	3.72%	
PROJECT REVENUE	(29,877)	-3.41%		0.00%	(6,518)	-0.90%		0.00%	(300)	-0.02%		0.00%		0.00%	(36,695)	-0.51%	
GRAND TOTAL	877,271	100.00%	841,000	100.00%	725,500	100.00%	1,450,019	100.00%	1,514,770	100.00%	1,310,822	100.00%	490,663	100.00%	7,210,045	100.00%	

**RCC PROJECT MANAGEMENT OVERSIGHT CONSULTANT  
ITEMS FOR RCC ACTION**

The following items reflect action requirements identified in the June Project Report submitted to RCC by the Project Management Oversight Consultant, Fluor Daniel, Inc.

**NEW - June 1993**

- Concern:** The Metro Pasadena Line (MPL) staff has not yet developed a Value Engineering Plan.
- Action:** A schedule for conducting Value Engineering should be developed immediately.
- Status:** The MPL staff has agreed to this recommendation and is preparing an action plan.

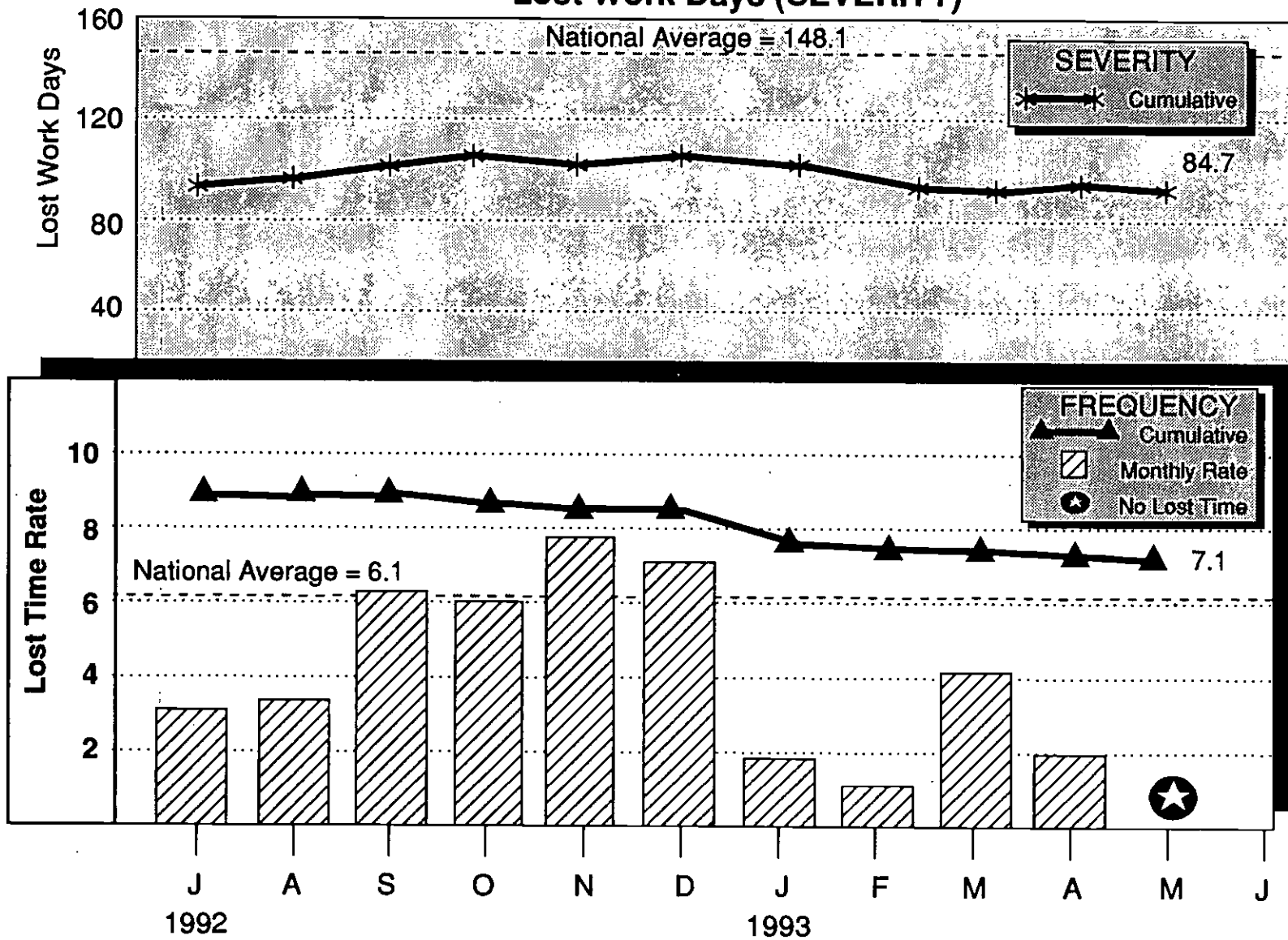
**ONGOING - March 1993**

- Concern:** The design criteria for Metro Pasadena Line is not yet approved by RCC.
- Action:** Review and approve December 1992 Metro Pasadena Line design and performance criteria.
- Status:** Under RCC review.

**RESOLVED -**

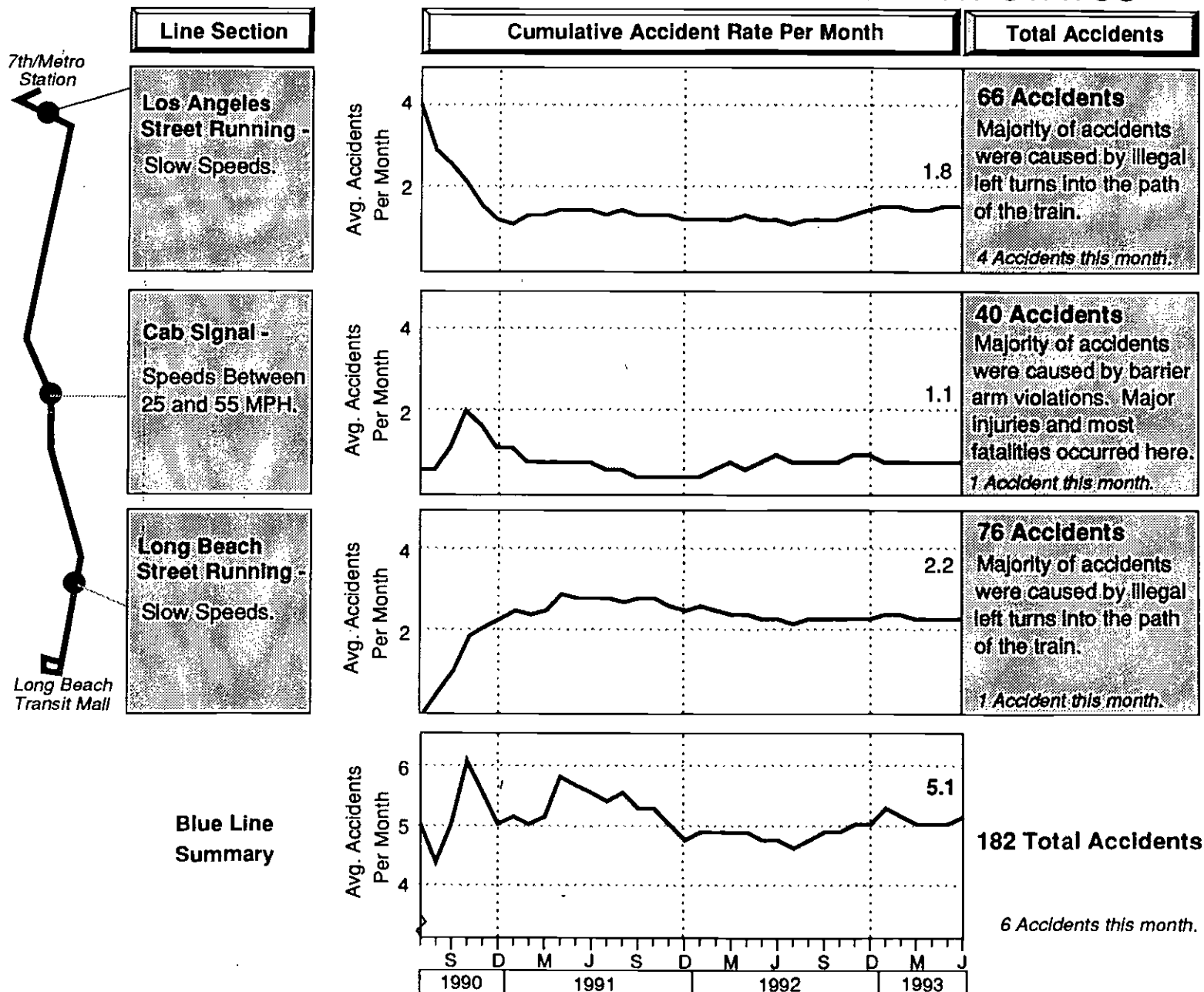
- Concern:** The Metro Green Line train control contract completion dates are inconsistent with the goal of a 1994 Revenue Operations Date.
- Status:** Metro Green Line staff has received RCC Board approval for Change Order No. 3 which corrects the H1100 contract completion dates.

# **TOTAL PROGRAM** **Summary of Lost Time Accidents (FREQUENCY) and** **Lost Work Days (SEVERITY)**



Data for Metro Red Line Segment 1 (from 7/90 to current), Segment 2, and Metro Green Line.

# METRO BLUE LINE GRADE CROSSING INCIDENT STATUS





## INVOICE PROCESSING

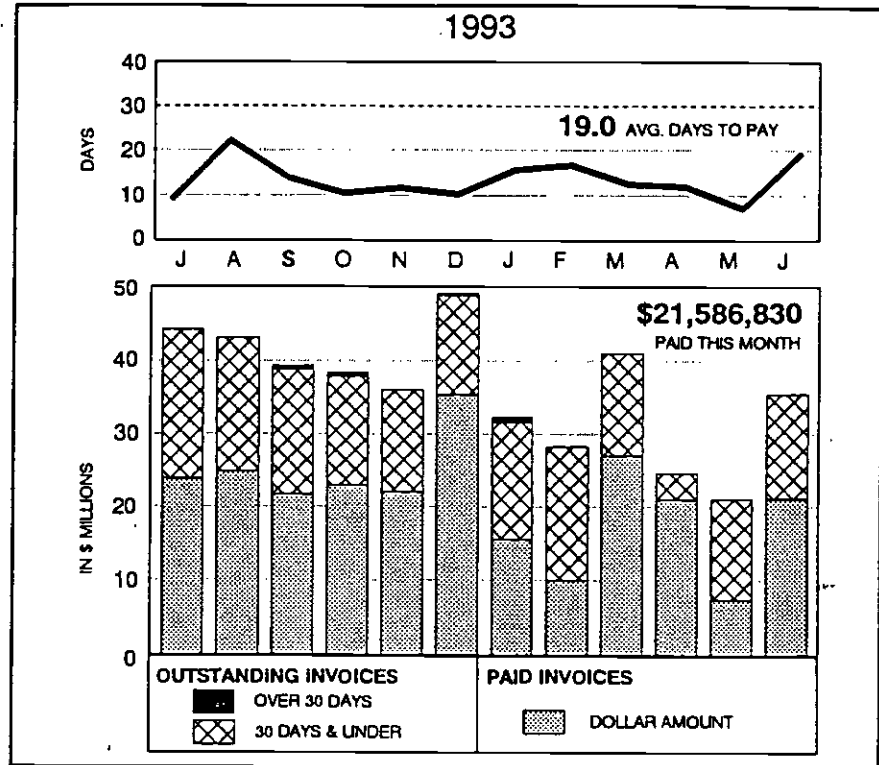
- The average time taken to pay invoices for Construction and Procurement contracts (including Insurance) was 19.0 days.

- 32 invoices were paid this month for a total value of \$21,586,830.

- There were 18 outstanding Construction or Procurement invoices under 30 days old for \$14,446,028.

- There were no outstanding Construction or Procurement invoices over 30 days old.

## Construction/Procurement Invoice Status



Note: The average days to pay is the time from when the Resident Engineer approves a progress payment (invoice) to when Accounting issues a check for this invoice.

## OUTSTANDING INVOICES

Month	Construction/Procurement Invoices				Other Invoices			
	30 Days and Under		Over 30 Days		30 Days and Under		Over 30 Days	
	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value
JAN 1993	40	16,195,600	4	823,507	75	6,153,892	21	3,070,015
FEB 1993	22	18,452,405	1	500	61	9,654,506	20	731,924
MAR 1993	13	14,078,736	2	17,167	43	6,943,622	12	547,720
APR 1993	10	3,622,751	0	0	58	5,856,361	10	147,990
MAY 1993	13	13,720,341	0	0	70	13,302,747	16	352,691
JUN 1993	18	14,446,028	0	0	62	10,758,129	16	506,138

RAIL CONSTRUCTION CORPORATION  
PRE CONTRACT STATUS SCHEDULE  
SUMMARY LOOK AHEAD

**R05 Metro Pasadena Project**

Page: 2

UPDATE:07-Jul-93

Cont. No.	Contractor/Description	Contract Type	Advertise Date	Pre-Bid Meeting	Bid Opening	Bid Report Complete	RCC Board Approval	Comm. Approval	Contracts Lead\Engineering Lead\Project Controls Lead\Compliance
MC013	Construction Management Services	CPFF	01/19/93	02/10/93	03/02/93	06/01/93	06/14/93	06/23/93	Baca, Mike \Adams, John \Hadnett, Art \Clayter, Jack

RAIL CONSTRUCTION CORPORATION  
PRE CONTRACT STATUS SCHEDULE  
SUMMARY LOOK AHEAD

**R23 Metro Green Line**

Page: 3

UPDATE:07-Jul-93

Cont. No.	Contractor/Description	Contract Type	Advertise Date	Pre-Bid Meeting	Bid Opening	Bid Report Complete	RCC Board Approval	Comm. Approval	Contracts Lead\Engineering Lead\Project Controls Lead\Compliance
C0090	Misc. Construction		03/01/93	03/17/93	04/28/93	04/30/93	06/14/93	06/23/93	Lechuga \Danesh \Dale \S. Gaye
H1310	M-KNUDSEN SIGNAGE		04/19/93	05/05/93	06/02/93	06/18/93	07/06/93	07/28/93	Lechuga \Griesbach \Dale \H. Rodriguez
WW444									\ \ \

# RAIL CONSTRUCTION CORPORATION PRE CONTRACT STATUS SCHEDULE SUMMARY LOOK AHEAD

## R81 Metro Red Line Segment 2

Page: 5

UPDATE:07-Jul-93

Cont. No.	Contractor/Description	Contract Type	Advertise Date	Pre-Bid Meeting	Bid Opening	Bid Report Complete	RCC Board Approval	Comm. Approval	Contracts Lead\Engineering Lead\Project Controls Lead\Compliance
B215	Wilshire/Vermont Station, Stage II	unit	08/23/93	09/15/93	10/20/93	10/29/93	11/15/93	11/24/93	Ben Mahler \M. Tamuri \Brown \S. Gay
B216	WILSHIRE/VERMONT SITE RESTORATIO	unit	10/10/94	11/10/94	12/15/94	12/30/94	01/16/95	01/25/95	CERVANTES \Tamuri \Brown \Ballard
B217	WILSHIRE/VERMONT SITE DEMOLITION	unit	04/12/94	05/12/94	06/09/94	06/17/94	07/11/94	07/27/94	B. MAHAFFEY\ \ \
B219	WILSHIRE/VERMONT SITE DEMOLITION	unit	05/24/93	06/15/93	07/14/93	07/30/93	08/16/93	08/25/93	M. MARROQUIN\ \ \
B229	Temporary Ventilation, Wilshire Corridor	unit	07/07/93	07/28/93	08/18/93	09/17/93	10/04/93	10/13/93	M. Marroquin \S. Agrawal \ \
B241	VERMONT/BEVERLY STATION	unit	05/03/93	06/03/93	08/05/93	08/13/93	08/30/93	09/15/93	MAHLER \Carmichael \McCamy \T. Martin
B252	VERMONT/SANTA MONICA STATION	unit	04/19/93	05/20/93	07/15/93	07/30/93	08/16/93	08/25/93	Antenucci \Carmichael \Brown \R. Warren
B261	VERMONT/SUNSET STATION	unit	09/27/93	10/21/93	12/09/93	12/17/93	01/04/94	01/26/94	MAHLER \Carmichael \Brown \J. Clayter
B268	Vermont/Sunset Station Site Demolition	unit	03/01/93	03/25/93	04/29/93	05/14/93	06/14/93	06/23/93	Mahler \Carmichael \Brown \
B271	HOLLYWOOD/WESTERN STATION	unit	08/30/93	09/23/93	11/18/93	12/17/93	01/04/94	01/26/94	Antenucci \Tamuri \McCamy \M. Perez
B281	HOLLYWOOD/VINE STATION & Crossove	unit	07/19/93	08/12/93	09/30/93	10/15/93	11/01/93	11/24/93	Mahler \Tamuri \McCamy \J. Walls
B4239	TELEPHONE		02/21/94	03/14/94	05/05/94	05/20/94	06/06/94	06/22/94	Cervantes \Morales \Brown \Rodriguez
B610	TRACKWORK (PROCURE/DESIGN/INST	unit	08/16/93	09/09/93	10/21/93	10/29/93	11/15/93	11/24/93	MAHAFFEY \Mazzo \Brown \Gay
B612	Contr. Rail,Coverboard & Insulator-Pro	unit	05/17/93	06/16/93	07/08/93	07/16/93	08/02/93	08/25/93	MARROQUIN\Guzman \Brown \Martin
B620	Auto Train Control (Dsgn/Supply/Inst)	unit	03/15/93	04/15/93	06/03/93	06/18/93	07/06/93	07/28/93	Antenucci \Gaskill \Mora \E. Brown
B631	Traction Power (Desing/Install)	unit	05/17/93	06/17/93	07/22/93	08/13/93	08/30/93	09/15/93	MARROQUIN\Guzman \McCamy \
B641	Radio System (Design/Furnish/Install)	unit	09/20/93	10/13/93	11/11/93	11/19/93	12/06/93	12/15/93	MARROQUIN\Bennett \Brown \L. Austin
B642	PUBLIC ADDRESS SYSTEM (PROCUREMENT	unit	12/06/93	01/06/94	02/17/94	02/25/94	03/07/94	03/23/94	MARROQUIN\Morales \Brown \Gay
B643	CLOSED CIRCUIT TV (PROCUREMENT)	unit	10/04/93	11/11/93	12/16/93	12/30/93	01/04/94	01/12/94	MAHAFFEY \Bennett \Brown \Gay
B644	CABLE TRANSMISSION SYSTEM (PROC	unit	09/07/93	10/14/93	11/17/93	11/24/93	12/06/93	12/15/93	Cervantes \Morales \Brown \Ballard
B645	Supervisory Control Sys (SCADA) (Design	RFP	07/06/93	08/05/93	09/08/93	10/27/93	11/15/93	12/15/93	CERVANTES\Morales \Brown \Martin
B646	Fire & Emergency Mgmt Sys (Procurement	unit	07/19/93	08/11/93	09/09/93	09/24/93	10/11/93	10/27/93	Antenucci \Morales \Brown \R. Warren

RAIL CONSTRUCTION CORPORATION  
PRE CONTRACT STATUS SCHEDULE  
SUMMARY LOOK AHEAD

**R81 Metro Red Line Segment 2**

Page: 6

UPDATE:07-Jul-93

Cont. No.	Contractor/Description	Contract Type	Advertise Date	Pre-Bid Meeting	Bid Opening	Bid Report Complete	RCC Board Approval	Comm. Approval	Contracts Lead\Engineering Lead\Project Controls Lead\Compliance
B647	Gas Monitoring System (Procurement)	unit	08/30/93	09/22/93	11/03/93	11/19/93	12/06/93	12/15/93	MAHAFFEY \Morales \Brown J. Clayter
B648	COMMUNICATIONS (INSTALL)		09/20/93	10/07/93	12/09/93	12/17/93	01/10/94	01/26/94	Cervantes \Morales \Mora \
B648A	COMMUNICATIONS INSTALL (WILSHIRE unit	unit	09/20/93	10/07/93	12/09/93	12/17/93	01/04/94	01/12/94	Cervantes \Morales \Brown \Perez
B648B	COMMUNICAITONS INSTALL (VERM/HIL unit	unit	06/27/94	07/21/94	09/15/94	09/30/94	10/10/94	10/26/94	Cervantes \Morales \Brown \Walls
B650	PASSENGER VEHICLE (DESIGN/SUPPLY RFP	RFP	11/01/93	12/16/93	01/13/94	01/28/94	02/07/94	02/23/94	Antenucci \Nelson \Brown \L. Austin
B710	Escalators/Elevators(Dsgn/Furn/Inst)	unit	11/10/92	02/11/93	04/08/93	04/16/93	05/10/93	06/23/93	Mahler \Agrawal \McCamy \Ballard
B730	FIXED SHOP EQUIPMENT		01/15/96	01/25/96	02/22/96	03/08/96	04/01/96	04/24/96	Antenucci \Kane \McCamy \T. Martin
B731	MAJOR SHOP EQUIPMENT		06/06/94	06/30/94	08/18/94	09/16/94	10/03/94	10/26/94	Antenucci \Kane \McCamy \
B735	PORTABLE SHOP EQUIPMENT		01/08/96	01/18/96	02/15/96	03/08/96	04/01/96	04/24/96	Antenucci \Kane \McCamy J. Clayter
B760	SIGNS & GRAPHICS (DESIGN/SUPPLY)	unit	09/13/93	10/06/93	11/11/93	11/19/93	12/06/93	12/15/93	MAHAFFEY \ \ \
B761	Illumi. Signs & Edgelight (Des/Supply)	unit	04/26/93	05/19/93	06/29/93	07/02/93	07/19/93	07/28/93	MAHAFFEY \Durrant \McCamy \M. Perez
B771	AUTOMOBILES & LIGHT TRUCKS		03/04/96	03/14/96	04/18/96	05/03/96	05/29/96	06/19/96	MAHLER \Kane \McCamy J. Walls
B772	LIFT TRUCKS		01/22/96	01/02/96	02/29/96	03/08/96	04/01/96	04/24/96	MAHLER \Kane \McCamy \L. Austin
B773	SHOP CLEAN/MAIN. & MAT. HANDLING		02/05/96	02/15/96	03/21/96	04/05/96	04/29/96	05/22/96	CERVANTES \Kane \McCamy \Rodriguez
B774	YARD & SHOP-CLEAN & MAIN. VEHICLE		04/01/96	04/11/96	05/16/96	06/07/96	07/01/96	07/24/96	CERVANTES \Kane \McCamy \Gay
B775	MOBILE EMERGENCY & MAINT EQUIPM		11/13/95	11/30/95	01/25/96	02/09/96	03/04/96	05/06/96	CERVANTES \Kane \McCamy \Ballard
B780	STATION FURNITURE (SUPPLY)		11/06/95	12/07/95	01/18/96	02/09/96	03/04/96	03/27/96	CERVANTES \Kane \McCamy \Martin
B785	Fire Suppression Equip (Design/Supply)		08/23/93	09/16/93	10/28/93	11/19/93	12/06/93	12/22/93	MAHAFFEY \Kane \McCamy \R. Warren
B790	STORES & CONSUMABLES (SUPPLY)		12/18/95	12/28/95	03/07/96	03/15/96	04/01/96	04/24/96	Antenucci \Kane \McCamy J. Clayter
B795	U.P.S. EQUIPMENT (DESIGN/SUPPLY)		04/26/93	05/13/93	06/25/93	07/02/93	07/19/93	07/28/93	Cervantes \Durrant \Brown \Brown

RAIL CONSTRUCTION CORPORATION  
PRE CONTRACT STATUS SCHEDULE  
SUMMARY LOOK AHEAD  
R82/R83 Metro Red Line Segment 3 - Civil Contracts

30-Jun-93

CONT. NO. #	CONTRACT DESCRIPTION	ADVERTISE	PRE-BID MEETING	BID OPENING	BID REPORT COMPLETE	RCC APPROVAL	AUTH. APPROVAL	CONTRACTS LEAD	ENGR LEAD	PROJECT CONTROLS	COMPLIANCE
C0301	Hollywood/Highland Station	03-Jan-94	01-Mar-94	11-Apr-94	26-Apr-94	09-May-94	25-May-94	Gatewood	Mori	Pierce	
C0303	Hollywood/Highland Utility Rearrangement	05-Aug-93	19-Aug-93	14-Sep-93	22-Sep-93	04-Oct-93	27-Oct-93	Mendoza	Mori	Pierce	
C0311	Line Section: Universal City to Station 638	05-Aug-93	04-Oct-93	12-Nov-93	01-Dec-93	13-Dec-93	26-Jan-94	Gatewood	Wilson	Pierce	
C0321	Universal City Station	25-Feb-94	25-Apr-94	06-Jun-94	21-Jun-94	11-Jul-94	27-Jul-94	Gatewood	Wilson	Pierce	
C0326	Universal City Roadways & Restoration	22-Nov-95	24-Jan-96	05-Mar-96	20-Mar-96	08-Apr-96	24-Apr-96	Mendoza	Wilson	Pierce	
C0328	Universal City Demolition for C0311	02-Aug-93	18-Aug-93	08-Sep-93	22-Sep-93	04-Oct-93	27-Oct-93	Gatewood	Wilson	Pierce	Perryman
C0329	Universal City Demolition for C0311/C0321	17-Jan-94	09-Mar-94	08-Apr-94	22-Apr-94	09-May-94	25-May-94	Gatewood	Wilson	Pierce	
C0331	Line Section: North Hollywood to Universal City	02-Jun-93	13-Jul-93	11-Aug-93	27-Aug-93	13-Sep-93	22-Sep-93	Gatewood	Mori	Pierce	Ballard
C0351	North Hollywood Station	28-Apr-94	27-Jun-94	08-Aug-94	23-Aug-94	12-Sep-94	28-Sep-94	Gatewood	Wilson	Pierce	
C0352	North Hollywood Station Sitework	06-Sep-96	04-Nov-96	17-Dec-96	03-Jan-97	27-Jan-97	26-Feb-97	Mendoza	Wilson	Pierce	
C0358	North Hollywood Demolition	21-Dec-93	18-Feb-94	14-Mar-94	25-Mar-94	11-Apr-94	27-Apr-94	Mendoza	Wilson	Pierce	
C0390	Miscellaneous Construction	21-Nov-95	23-Jan-96	04-Mar-96	19-Mar-96	08-Apr-96	24-Apr-96	Mendoza	Sohn	Pierce	
C0401	Olympic/Crenshaw Station	23-Nov-94	25-Jan-95	07-Mar-95	22-Mar-95	10-Apr-95	26-Apr-95	Gatewood	Fuks	Williams	
C0403	Olympic/Crenshaw Utility Rearrangement	05-Apr-94	02-Jun-94	07-Jul-94	22-Jul-94	08-Aug-94	31-Aug-94	Mendoza	Fuks	Williams	
C0408	Olympic/Crenshaw Demolition	04-Mar-94	02-May-94	31-May-94	17-Jun-94	04-Jul-94	27-Jul-94	Mendoza	Fuks	Williams	
C0411	Line Section: Wilshire/Western to Pico/San Vicente	07-Oct-93	07-Dec-93	19-Jan-94	03-Feb-94	28-Feb-94	23-Mar-94	Gatewood	Wattson	Williams	
C0421	Pico/San Vicente Station	08-Jun-94	05-Aug-94	16-Sep-94	03-Oct-94	24-Oct-94	23-Nov-94	Gatewood	Fuks	Williams	
C0428	Pico/San Vicente Demolition	07-Sep-93	03-Nov-93	06-Dec-93	27-Dec-93	10-Jan-94	26-Jan-94	Mendoza	Fuks	Williams	
C0490	Miscellaneous Construction	19-Jun-96	16-Aug-96	27-Sep-96	14-Oct-96	11-Nov-96	27-Nov-96	Mendoza	Sohn	Williams	

## EXECUTIVE SUMMARY

### COST STATUS (in millions)

- ▶ Current Budget           \$841
- ▶ Current Forecast         \$841

### SCHEDULE STATUS

- ▶ Current Approved Revenue Operations Date November, 1997
- ▶ Design Progress
  - Actual                   28%
- ▶ Construction Progress
  - Actual                   00% \*

\* Construction planned to begin February 17, 1994

### REAL ESTATE STATUS

MONTH	NUMBER OF PARCELS	PARCELS AVAILABLE	PARCELS NOT AVAILABLE (ON SCHEDULE)	PARCELS NOT AVAILABLE (BEHIND SCHEDULE)	
				NUMBER	AVG DAYS BEHIND
THIS MONTH	61	4	11	46	117
LAST MONTH	61	4	13	44	102

## EXECUTIVE SUMMARY

Preliminary Engineering (PE) for the Metro Pasadena Project was substantially completed in the month of May, 1993. Overall progress improved to 98% complete, with the remaining 2% for Utilities and Systems Engineering transferred to the Final Design phase.

Completion of remaining preliminary engineering tasks was achieved in June. Final Design is well underway, with the Arroyo Seco Bridge and LA River Bridge in-progress submittals issued to RCC for review.

Public Affairs and the Art-for-rail Program continued to conduct meetings with the communities of Highland Park, Chinatown, South Pasadena, and Pasadena. This strategy continues to clear a path for future coordination and cooperation with the communities that will be a part of this project.

## AREAS OF CONCERN

### ONGOING

#### Yard Site Location

**Concern:** A temporary maintenance facility at the Midway Yard has been formally adopted as part of the baseline scope of work. Final Design is proceeding to define the scope of work for the Yard & Shops.

**Action:** EMC/RCC to resolve engineering issues related to secondary access for the LA Fire Department (LAFD) and the provision for an Elysian Park bike path.

**Status:** The section designer is now on board with a limited NTP. Negotiations for Final Design are complete. Discussion is continuing with the designer and RCC/MTA Operations & Maintenance staff to refine Yard & Shops layout. Tentative agreement has been reached with LAFD, LADOT and Parks & Recreation to define requirements for a combined access road/bikeway plan from Elysian Park to the Midway Yard.

**Catellus/Ratkovich Interface at LAUPT**

**Concern:** Location of the LRT terminus at Union Station involves interface with Catellus Corporation and the Ratkovich Villanueva Partnership. The alignment, with roadway improvements proposed by Catellus, crosses Ratkovich interests at two locations along the Terminal Annex property. Width of the platform beyond the previously defined easement requires further negotiation with Catellus.

**Action:** RCC and Metrolink have met with Catellus and Ratkovich and presented alternative Pasadena and Metrolink Alignments. An alignment has been agreed to in principle by all parties. Final Design has commenced.

**Status:** MTA Facilities and Procurement office is heading the negotiations on policy issues for MTA at Union Station. RCC is providing technical support.

**Real Estate**

**Concern:** The Real Estate acquisition effort is behind schedule. Full and partial takes still need to be certified.

**Action:** The Pasadena Project team has facilitated weekly Parcel Acquisition schedule meetings between LACMTA and EMC Real Estate personnel.

**Status:** Re-prioritization of full-takes and Site Office/Laydown requirements to support acceleration of certifications have been preliminarily identified in the Right-of-Way acquisition Control Matrix. Additional parcels along the Santa Fe ROW for full or partial takes have been identified. The matrix will continue to be updated monthly.

**Del Mar Station**

**Concern:** Identification of an acceptable concept for the Del Mar Station and park-and-ride facilities.

**Action:** RCC to continue discussions with the City of Pasadena and MTA bus operations on site development and to provide direction to EMC for final design.



Status: Regular joint development meetings are in progress to define financial obligations of LACMTA and the City of Pasadena and agreed on a concept for the transportation center.

#### **Marmion Way (Avenue 50 to Avenue 60)**

Concern: Identification of an acceptable cross section within the narrow right-of-way and parallel frontage roads is required for start of upcoming final design.

Action: RCC has agreed in principle with the City of Los Angeles, Fire/Life Safety, and the CPUC on acceptable cross section through the Marmion Way segment.

Status: Final design is currently underway. Tentative agreement has been reached with LAFD on fire department access issues. Additional full and partial property acquisitions have been identified for emergency vehicle access. RCC Environmental Compliance, along with the San Gabriel Area team, has defined potential impacts to the EIR/EIS process and will proceed with a SEIR.

#### **KEY ACTIVITIES - JUNE**

- ▶ RCC continued to refine Midway Yard conceptual design and fire lane access.
- ▶ Completed remaining PE tasks for closeout in June, 1993 for items added to baseline budget: Marmion/Figueroa Grade Separation; Park-and-Ride lot at French Avenue Station; Southwest Museum Station; and Colorado Grade Separation.
- ▶ Continued negotiations for final design with the below-grade line segment from Del Mar to Walnut.
- ▶ Began negotiations for final design with the station and landscape designers.

**KEY ACTIVITIES - PLANNED FOR JULY**

- ▶ Award service contracts for Waste Handling.
- ▶ Continue certification process for additional full and partial takes required along Avenue 50-Avenue 60. Identify EIR/EIS impacts and prepare scope of work for SEIR.
- ▶ Resolve issue of pedestrian bridge in Chinatown.
- ▶ Finalize special permitting process with the cities of Los Angeles and Pasadena. Finalize MCA with the City of South Pasadena.
- ▶ Award Final Design contracts for the following: the line segment from Del Mar to Walnut Street; Midway Yard & Shop; landscape design contracts; and the Systemwide Variable Message System.
- ▶ Submit right-of-way certification for LRT alignment easement through Cornfield Yard.
- ▶ Start right-of-way certification for LRT alignment easement modifications at Union Station.

RCC  
Project: R05

RAIL CONSTRUCTION CORPORATION  
METRO PASADENA PROJECT  
Project Cost by Element

Page: 1  
Report Date: 27-Jul-93  
Status Date: 26-Jun-93

(\$ x 000's)

Description	----- Budget -----		----- Commitments -----		----- Incurred Cost -----		----- Expenditures -----		Current	Variance (9-2)
	Original (1)	Current (2)	Period (3)	To Date (4)	Period (5)	To Date (6)	Period (7)	To Date (8)	Forecast (9)	
T Construction	515,171	480,929	55	707	0	0	0	640	480,929	0
S Professional Services	183,206	197,415	356	32,894	0	4,571	995	15,739	197,415	0
R Real Estate	68,100	72,308	0	6	0	0	0	5	72,308	0
F Utility/Agency Force Accounts	8,441	11,321	86	1,196	0	0	57	275	11,321	0
D Special Programs	3,377	4,402	30	61	30	30	0	31	4,402	0
C Contingency	62,705	74,825	0	0	0	0	0	0	74,825	0
A Project Revenue	0	0	0	0	0	0	0	0	0	0
Project Grand Total :	841,000	841,000	527	34,864	30	4,801	1,051	16,689	841,000	0

RAIL CONSTRUCTION CORPORATION  
METRO RAIL PASADENA LINE PROJECT  
(IN THOUSANDS OF DOLLARS)

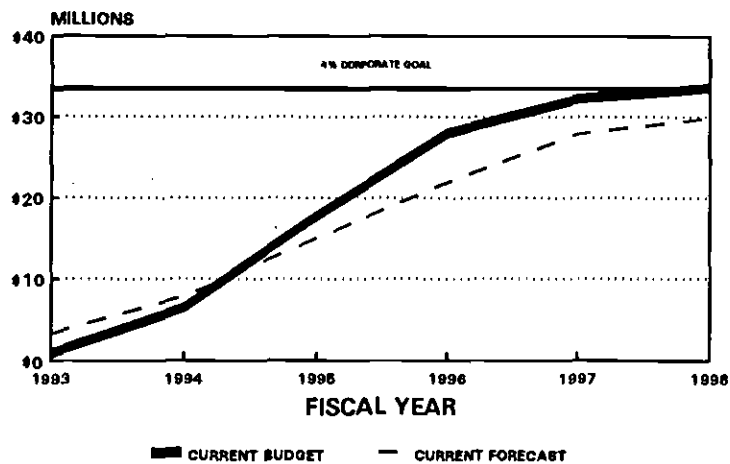
08-Jul-93

MAY 93

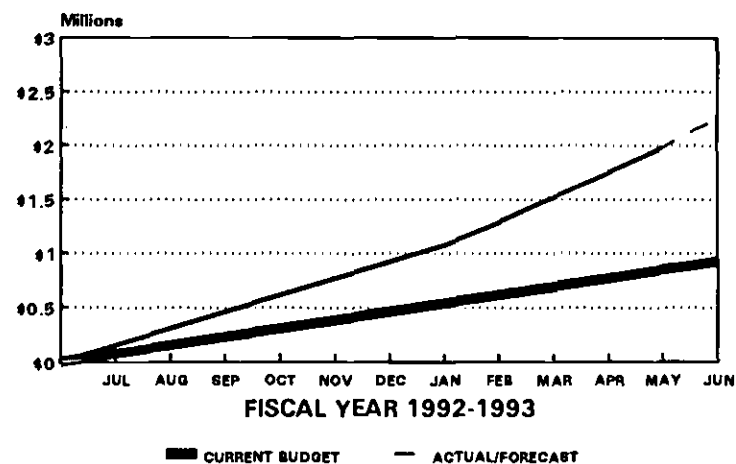
## STATUS OF FUNDS BY SOURCE

SOURCE	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS		EXPENDITURES		BILLED TO SOURCE	
			\$	%	\$	%	\$	%
PROP C	\$435,437	\$21,847	\$39,697	9%	\$14,260	3%	\$14,260	3%
STATE PROP 108	\$368,300	\$0	\$0	0%	\$0	0%	\$0	0%
STATE PROP 116	\$37,263	\$0	\$0	0%	\$0	0%	\$0	0%
TOTAL	\$841,000	\$21,847	\$39,697	5%	\$14,260	2%	\$14,260	2%

### AGENCY COSTS PASADENA LINE



### FISCAL YEAR 1993 AGENCY COSTS PASADENA LINE



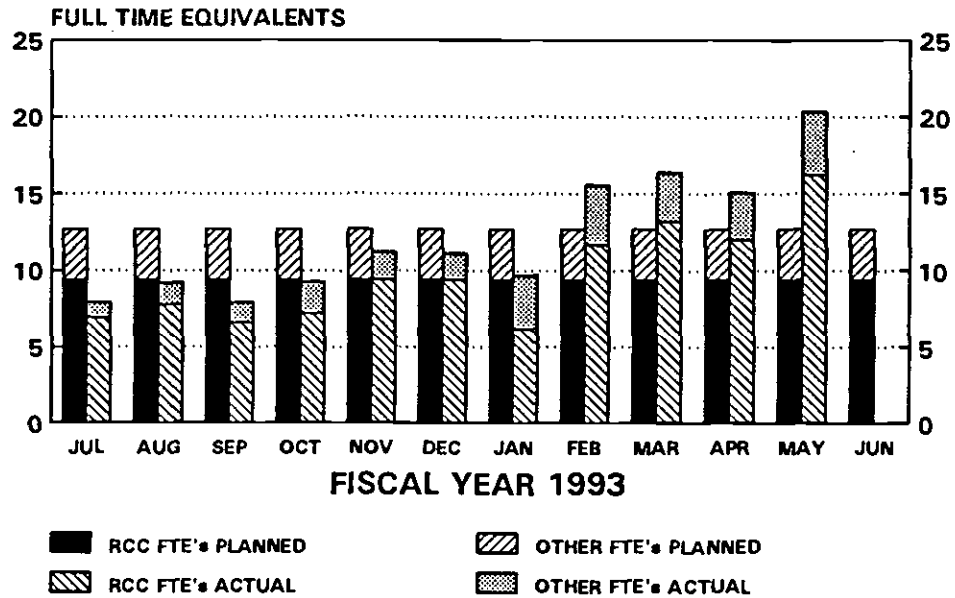
### PROJECT AGENCY COSTS PASADENA LINE (\$000)

TOTAL PROJECT BUDGET	\$ 841,000
CURRENT BUDGET	\$ 33,640
CURRENT FORECAST	\$ 29,944

### FISCAL YEAR 1993 AGENCY COSTS PASADENA LINE (\$000)

CURRENT BUDGET	\$ 925
CURRENT FORECAST	\$ 2,257
ACTUAL TO DATE	\$ 1,982

## STAFFING PLAN VS. ACTUAL PASADENA LINE

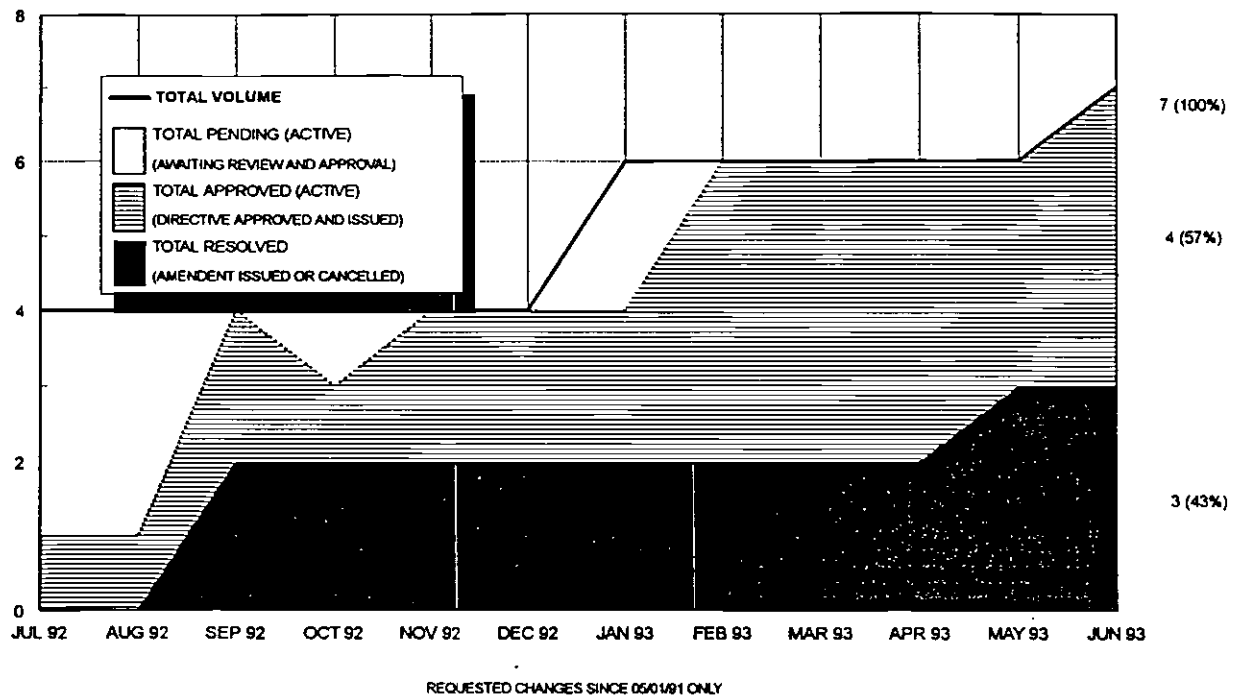


FY'93 Budget

## PASADENA LINE STAFFING PLAN FISCAL YEAR 1993

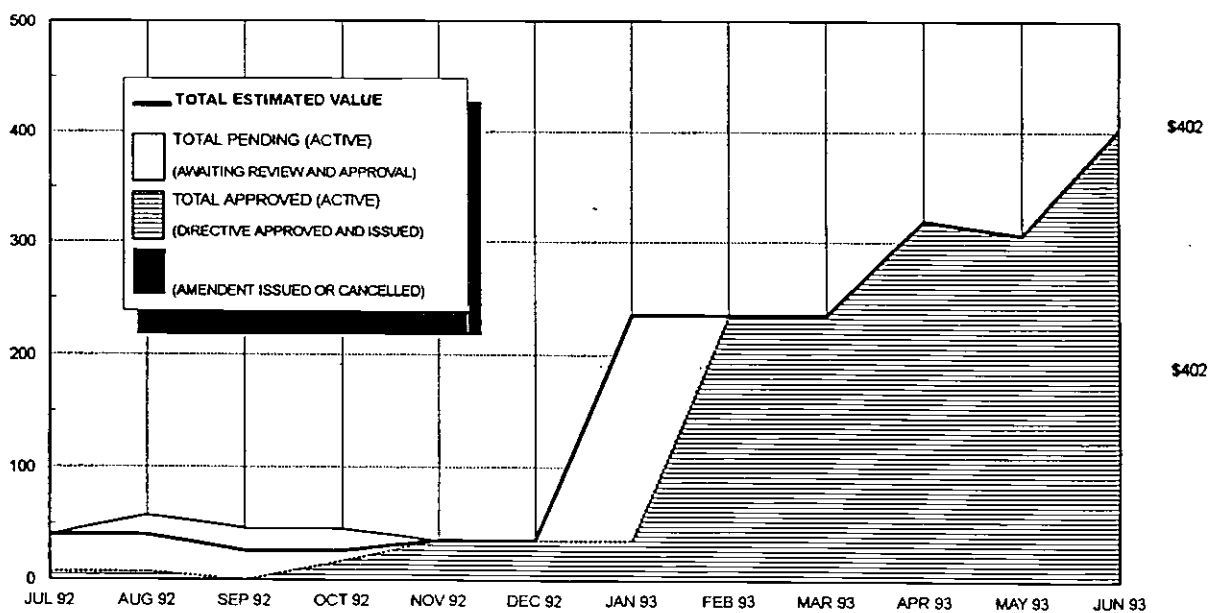
RCC FTE's PLANNED	9
RCC FTE's ACTUAL	16
OTHER FTE's PLANNED	4
OTHER FTE's ACTUAL	4
TOTAL FTE's PLANNED	13
TOTAL FTE's ACTUAL	20

**CONSULTANT CONTRACT CHANGE SUMMARY  
PASADENA LINE CONSULTANT CHANGE REQUEST VOLUME**

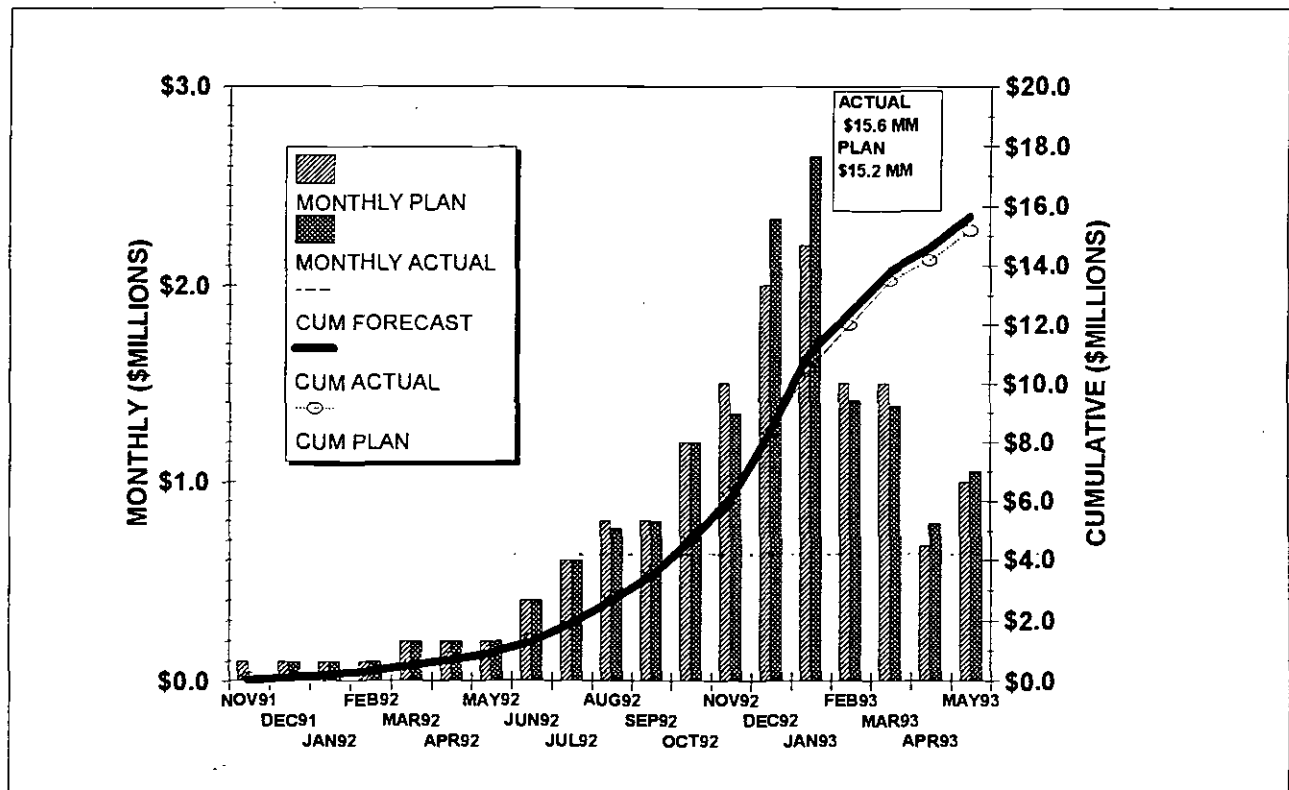
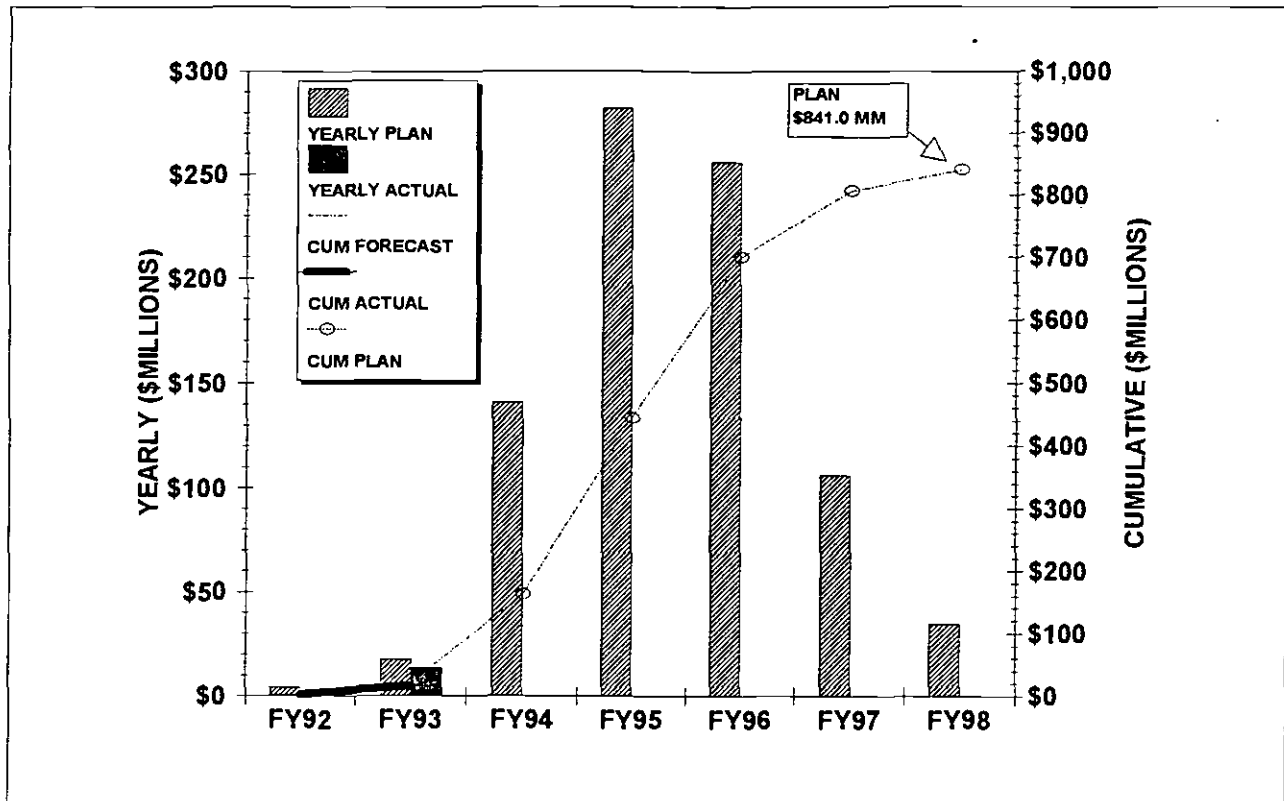


AGE OF UNRESOLVED CONSULTANT CHANGES					
TIME	0-30 DAYS	30-60 DAYS	61-90 DAYS	OVER 90	TOTAL ACTIVE
VOLUME	0	0	0	4	4
PERCENT	0%	0%	0%	100%	100%

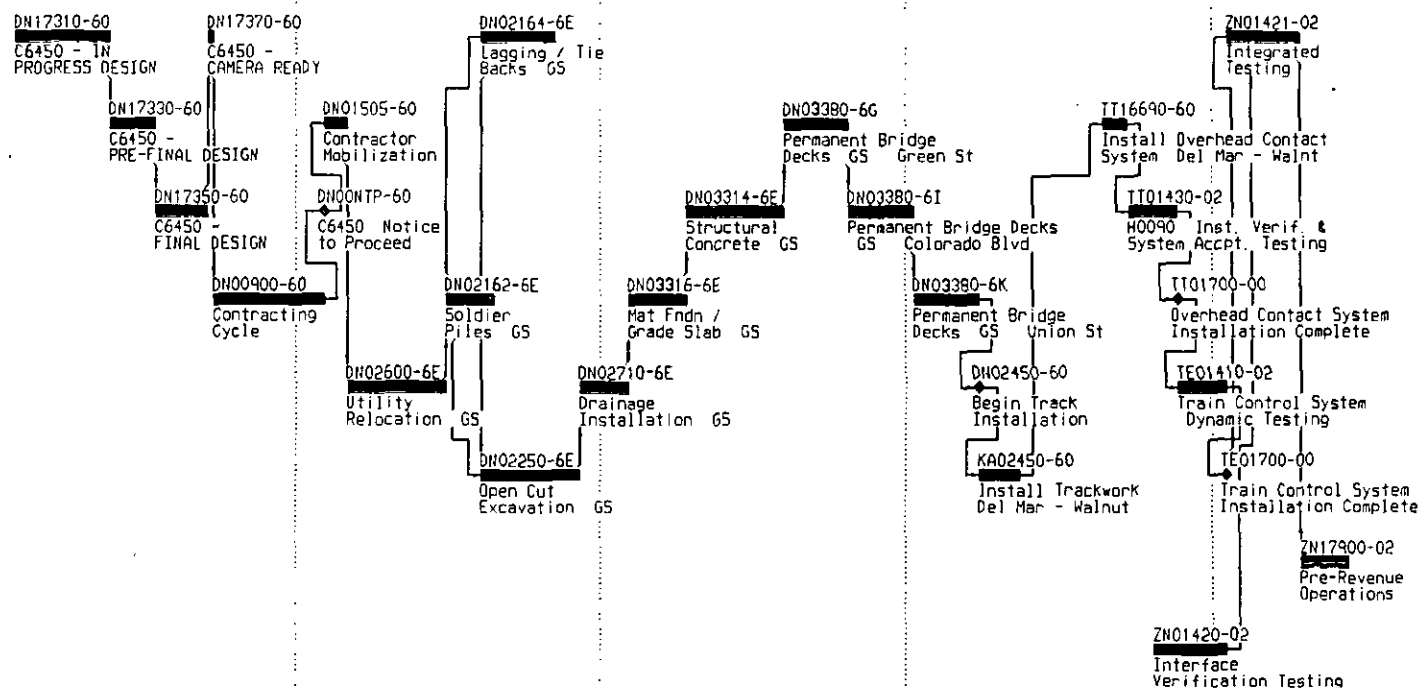
**CONSULTANT CONTRACT CHANGE SUMMARY  
PASADENA LINE CONSULTANT CHANGE REQUEST VALUES**



PROJECT CASH FLOW







Plot Date	9JUL93
Data Date	26JUN93
Project Start	7NOV91
Project Finish	11DEC97

Activity Bar/Early Dates  
Critical Activity  
Progress Bar  
Milestone/Flag Activity

**Total**

MTA / RCC  
Metro Pasadena Line  
Critical Path

5401 1 of 1

[illegible]

**EXECUTIVE SUMMARY****COST STATUS** (in millions )

- Current Budget \$722.4
- Current Forecast \$725.5

**SCHEDULE STATUS**

- Current Approved Revenue Operations Date May, 1995
- Design Progress - Actual 99%
- Construction Progress - Actual 58%

**REAL ESTATE STATUS**

MONTH	NUMBER OF PARCELS	PARCELS AVAILABLE	PARCELS NOT AVAILABLE (ON SCHEDULE)	PARCELS NOT AVAILABLE (BEHIND SCHEDULE)	
				NUMBER	AVG DAYS BEHIND
THIS MONTH	39	39	0	0	0
LAST MONTH	39	39	0	0	0

## AREAS OF CONCERN

### NEW

#### **Caltrans Station Phase II Contracts Schedule Impacts to Contract H0900 (Safety and Security Communication System ) Access Dates**

- Concern: The nine Caltrans stations phase II contracts will impact Contract H0900 completion if turnover dates are not maintained.
- Action: Workaround scenarios to expedite turnovers to the Contract H0900 contractor are being developed. Progress is being closely monitored for all Caltrans station phase II construction.
- Status: Weekly meetings are being held with the contractors to review progress and to determine workarounds when needed.

#### **Caltrans Projects Schedule Impacts to Contract H1400 (Overhead Contact System) Access Dates**

- Concern: The delayed access along the Century Freeway has caused work inefficiencies for the Contract H1400 contractor.
- Action: The contractor was to submit a resequenced schedule.
- Status: A resequenced schedule was received and based on revised access dates this schedule is being reviewed.

### ONGOING

#### **Caltrans Project CT033 (Wilton to Vermont)/Contract C0600 (Century Trackwork Installation) Access Date Conflict**

- Concern: Site access for Century trackwork installation, originally scheduled November 1, 1992, has been withheld until the contract milestone is satisfied and construction is completed. Complete access is forecast for September 1, 1993. This delay will have an approximate two month negative impact on the December, 1994 target revenue operations date. Several systems contracts may also be affected.
- Action: Caltrans is working aggressively with its contractor, Ball, Ball & Brosamer, to overcome problems associated with soil exportation. The contractor is to produce a schedule with a target completion date of late August, 1993.
- Status: Continued excavation and fine grading of the section between Normandie

and Hoover has impeded progress on this segment. Construction of the LRT portion may continue into the third week of September, 1993. The section from Wilton to Normandie is on schedule. This area is forecast for completion the third week of August, 1993. The logistics of a partial takeover will have to be worked out with the contractor.

#### **Contract C0501 (Systems Facilities Sites) Schedule Delays**

**Concern:** Inability of the contractor to meet schedule dates and unavailability of Caltrans sites are impacting Contract H1100 (Automatic Train Control) interface dates by approximately one month.

**Action:** Assistance has been extended to the contractor in expediting submittals and working to a schedule. The contractor has met satisfactory near term completion dates for eight TCCBs which were completed on June 14, 1993 along with five associated vaults. Six additional TCCB/DWPs will be completed in July, 1993.

**Status:** OKA is monitoring day-to-day schedule progress. If schedule slippage is noted OKA may recommend to the RCC that liquidated damages be assessed. Three sites remain to be released to the Contract C0501 contractor, two from Contract H1200 and one from Contract C0100.

#### **Caltrans Project CT043-2 (I-105 to Studebaker)/Contract C0600 (Century Trackwork Installation) Access Dates**

**Concern:** A later than anticipated LRT access date to this segment may have significant cost impact to some follow-on systems contracts and minor schedule impact to the target segmental revenue operations date.

**Action:** Workaround scenarios to expedite turnover to the Contract C0600 contractor have been developed. The monitoring of the contractor's construction schedule has been increased to better assess delays and time extensions. Segmental milestones have been eliminated from the project revenue operations date.

**Status:** Direct discussions with the contractor did not result in any reasonable plan for schedule acceleration. The contractor, working without a construction schedule, disputes the extent of acceleration required.

**RESOLVED****Approval of the Contract H1100 (Automatic Train Control) Schedule to Support the Target 1994 Revenue Operations Date**

**Concern:** The Contract H1100 contractor, Union Switch & Signal, Inc. has shown a schedule of work that does not support the full line ROD. The contractor may not have the resources to meet the project schedule requirements for the target revenue operations date.

**Action:** Contract H1100 has concluded negotiations of Change Notice No.5. This change established revised contract milestones in support of the current full line Revenue Operations Date (ROD). A preliminary schedule was submitted and discussed during the negotiations.

**Status:** Union Switch and Signal will resubmit the baseline schedule by the end of this month. The revised baseline schedule contains the new contract milestones per Change Notice No. 5. It was also agreed during the recent partnering workshop to establish interim schedule milestones to ensure timely completion of the critical project milestones.

**Contract C0100 (Aerial Guideways) Schedule Impacts to Contract C0610 (El Segundo Trackwork Installation) and the Target 1994 Revenue Operations Date**

**Concern:** The Contract C0100 schedule may impact Contract C0610 access date with potential impact to the target November 1994 revenue operations date. Final resolution of delay and impact issues such as delayed contract access due to Chevron interface and the El Segundo Station re-design for additional stairs is pending further analysis.

**Action:** Change Notice 093 has been issued to resolve the delay and impact issues on Contract C0100 in order to achieve access to the guideway as early as possible.

**Status:** The Contract C0610 contractor received access to the yardthroat on March 8, 1993 and partial access to the guideway on April 1, 1993. Additional hours have been authorized via change notices 109 and 103 for Frames 57 and 58 and 52 through 64 and station platforms. These change notices settle claims and authorize expenditures of additional hours to achieve guideway access which supports the overall project.

**KEY ACTIVITIES -- JUNE 1993**

- LACMTA approved award of Contract C0090 (Ancillary Construction) to Morrison-Knudsen Corporation.

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**KEY ACTIVITIES -- PLANNED FOR JULY 1993**

- Issue NTP for Contract C0090 (Ancillary Construction).
- Award Contract H1310 (Signage and Graphics).

**RAIL CONSTRUCTION CORPORATION  
PROJECT COST REPORT  
COST BY ELEMENT**

Page No. 1

Project: R23 METRO GREEN LINE

Period: May 28, 1993 to Jun 25, 1993  
Run Date: Jul 1, 1993  
Units: \$ in Thousands (Truncated)

ELEMENT / DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		INCURRED		EXPENDITURES		CURRENT FORECAST		FORECAST VARIANCE
		Period	To Date	Period	To Date	Period	To Date	Period	To Date	Period	To Date	
T CONSTRUCTION	470,191	0	492,391	3,702	393,955	7,701	223,345	3,545	199,165	-301	490,021	-2,370
S PROFESSIONAL SERVICES	108,562	0	180,477	-628	145,874	881	120,444	881	120,444	3,354	184,481	4,004
R REAL ESTATE	36,927	0	28,522	0	23,845	0	23,330	0	23,330	0	28,522	0
F UTILITY/AGENCY FORCE ACCOUNTS	7,656	0	10,500	271	10,367	687	6,655	687	6,655	0	10,500	0
D SPECIAL PROGRAMS	4,675	0	4,790	0	4,217	0	311	0	311	0	4,844	54
C PROJECT RESERVE	59,613	0	12,238	0	0	0	0	0	0	10,552	13,648	1,409
A PROJECT REVENUE	-16,626	0	-6,518	0	-1,263	0	-605	0	-605	0	-6,518	0
GRAND TOTAL - R23 METRO GREEN LINE	671,000	0	722,402	3,345	576,995	9,270	373,482	5,114	349,302	-7,500	725,500	3,097

RAIL CONSTRUCTION CORPORATION  
METRO RAIL GREEN LINE PROJECT  
(IN THOUSANDS OF DOLLARS)

08-Jul-93  
09:03 AM

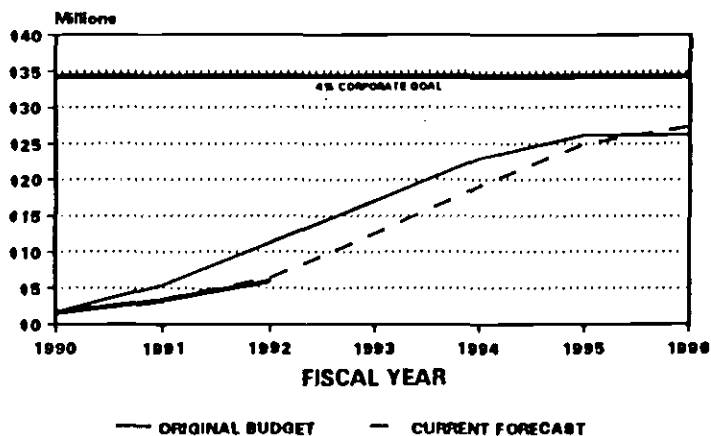
MAY 93

STATUS OF FUNDS BY SOURCE

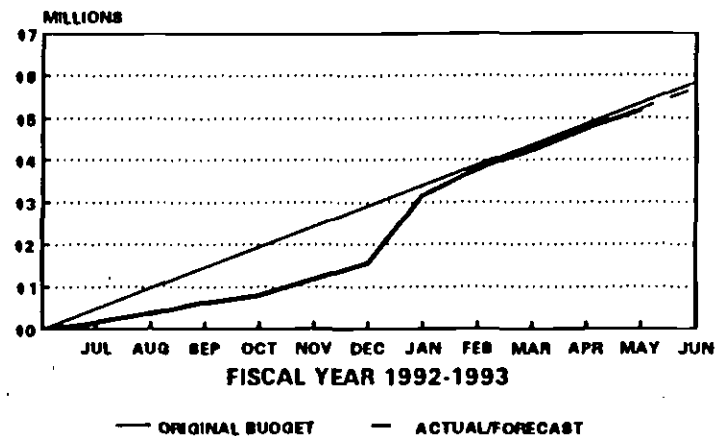
SOURCE	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS		EXPENDITURES		BILLED TO SOURCE	
			\$	%	\$	%	\$	%
PROP A	\$205,136	\$205,136	\$205,136	100%	\$205,136	100%	\$205,136	100%
PROP C	\$509,464	\$189,700	\$371,859	73%	\$144,166	28%	\$144,166	28%
ISTEA/PROP C (IMPERIAL HWY GRADE SEPARATION)	\$4,500	\$1	\$0	0%	\$0	0%	\$0	0%
PROP C (ADA)	\$6,400	\$0	\$0	0%	\$0	0%	\$0	0%
TOTAL	\$725,500	\$394,837	\$576,995	80%	\$349,302	48%	\$349,302	48%



### AGENCY COST GREEN LINE



### FISCAL 1993 AGENCY COSTS GREEN LINE



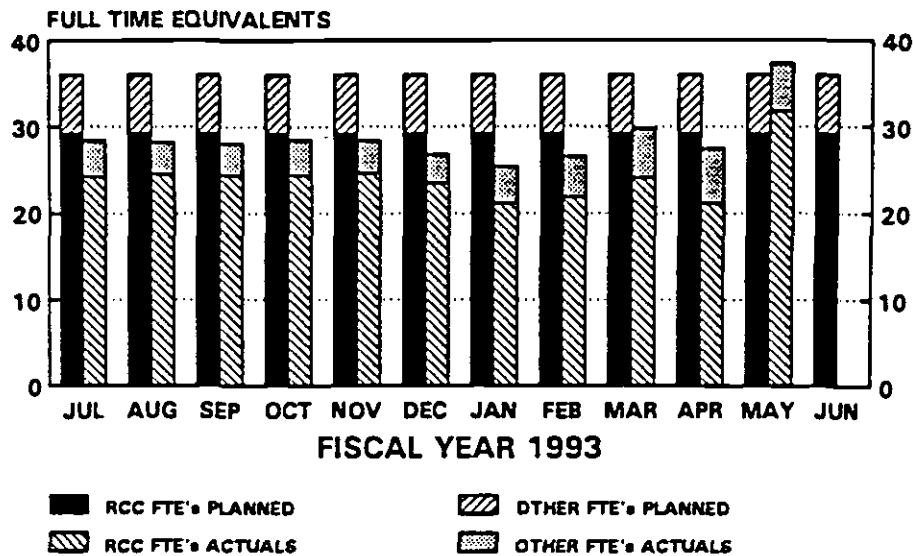
### PROJECT AGENCY COSTS GREEN LINE (\$000)

TOTAL PROJECT BUDGET	\$716,000
ORIGINAL BUDGET	\$ 26,189
BUDGET % OF TOTAL PROJECT	3.7%
CURRENT FORECAST	\$ 27,407
FORECAST % OF TOTAL PROJECT	3.8%
4% CORPORATE GOAL	\$ 28,640

### FISCAL YEAR 1993 AGENCY COSTS GREEN LINE (\$000)

ORIGINAL BUDGET	\$5,833
FORECAST	\$5,710
ACTUAL \$ TO DATE	\$5,210

## STAFFING PLAN VS. ACTUAL GREEN LINE

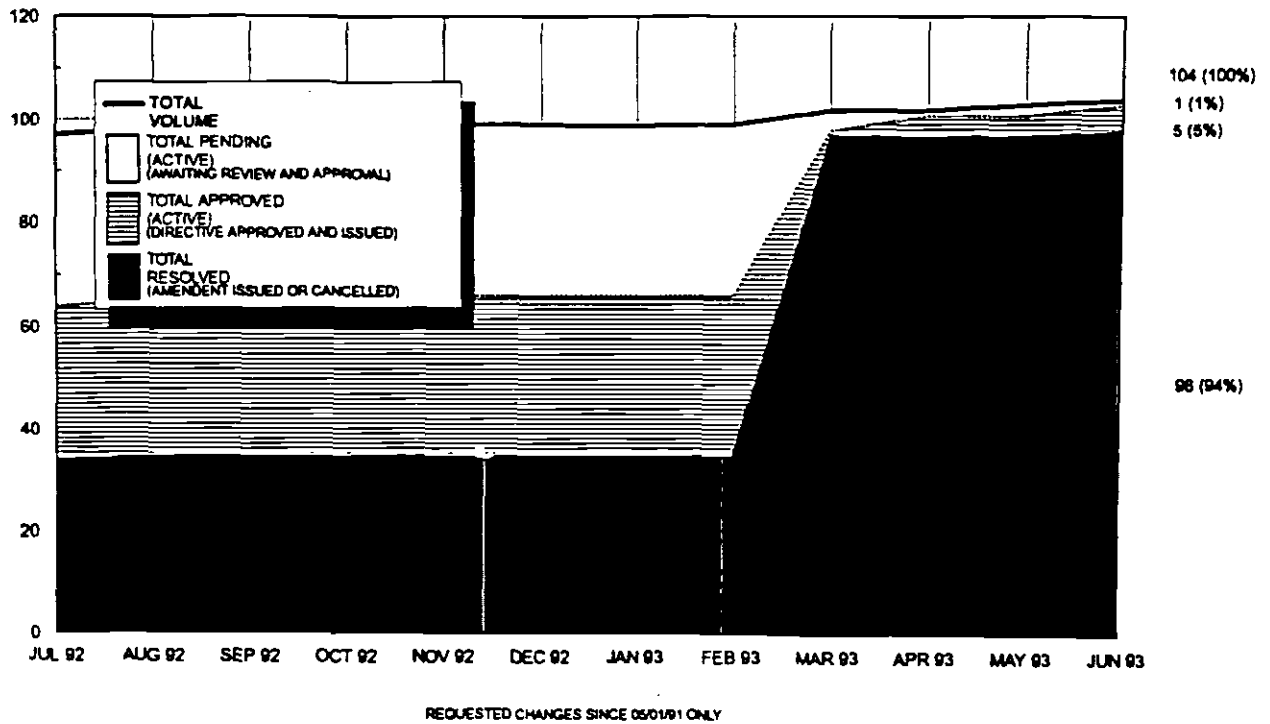


FY'93 BUDGET

## GREEN LINE STAFFING PLAN FISCAL YEAR 1993

RCC FTE's PLANNED	29
RCC FTE's ACTUAL	32
OTHER FTE's PLANNED	7
OTHER FTE's ACTUAL	5
TOTAL FTE's PLANNED	36
TOTAL FTE's ACTUAL	37

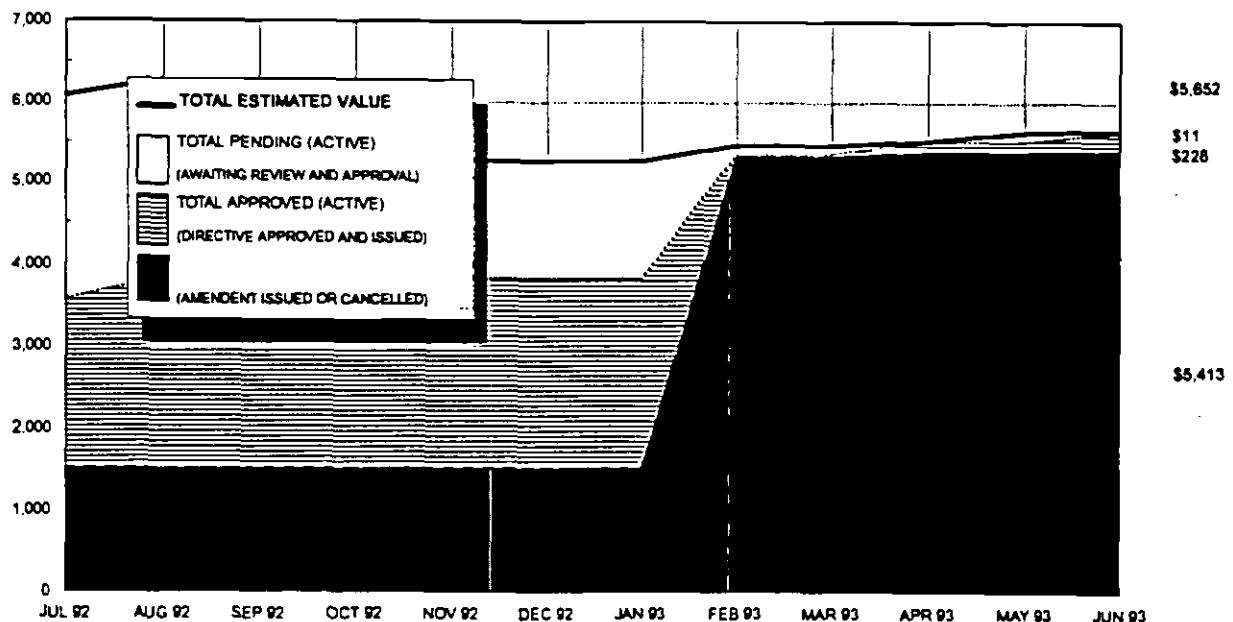
**CONSULTANT CONTRACT CHANGE SUMMARY  
GREEN LINE CONSULTANT CHANGE REQUEST VOLUME**



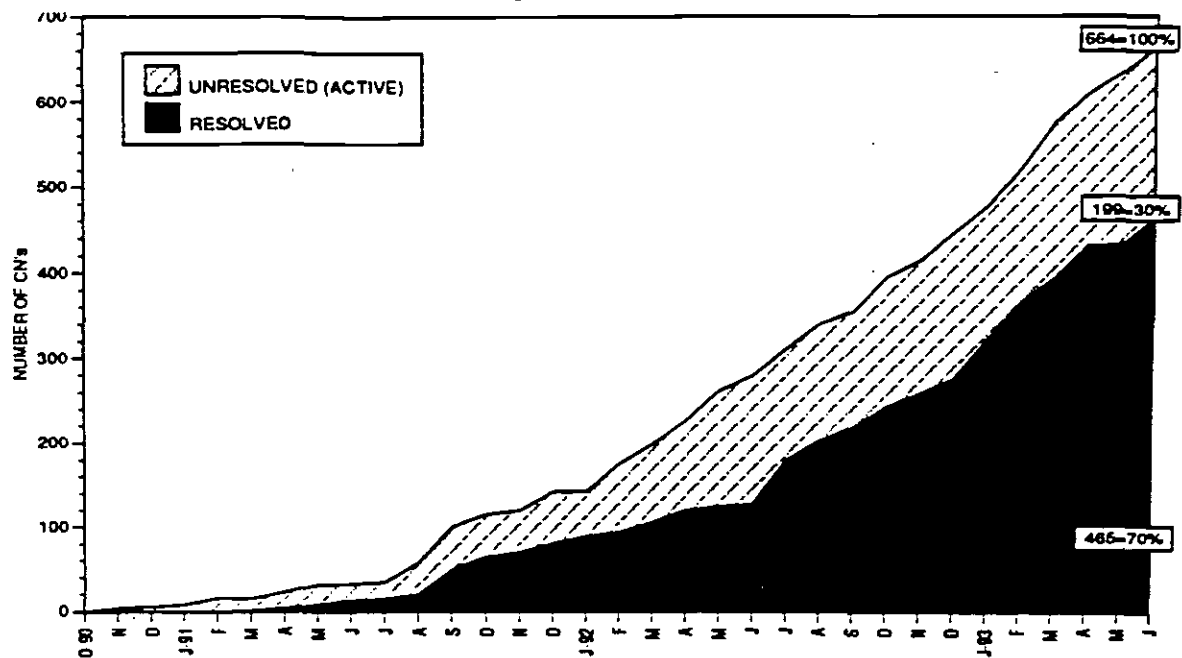
**AGE OF UNRESOLVED CONSULTANT CHANGES**

TIME	0-30 DAYS	30-60 DAYS	61-90 DAYS	OVER 90	TOTAL ACTIVE
VOLUME	0	1	0	5	6
PERCENT	0%	17%	0%	83%	100%

**CONSULTANT CONTRACT CHANGE SUMMARY  
GREEN LINE CONSULTANT CHANGE REQUEST VALUES**

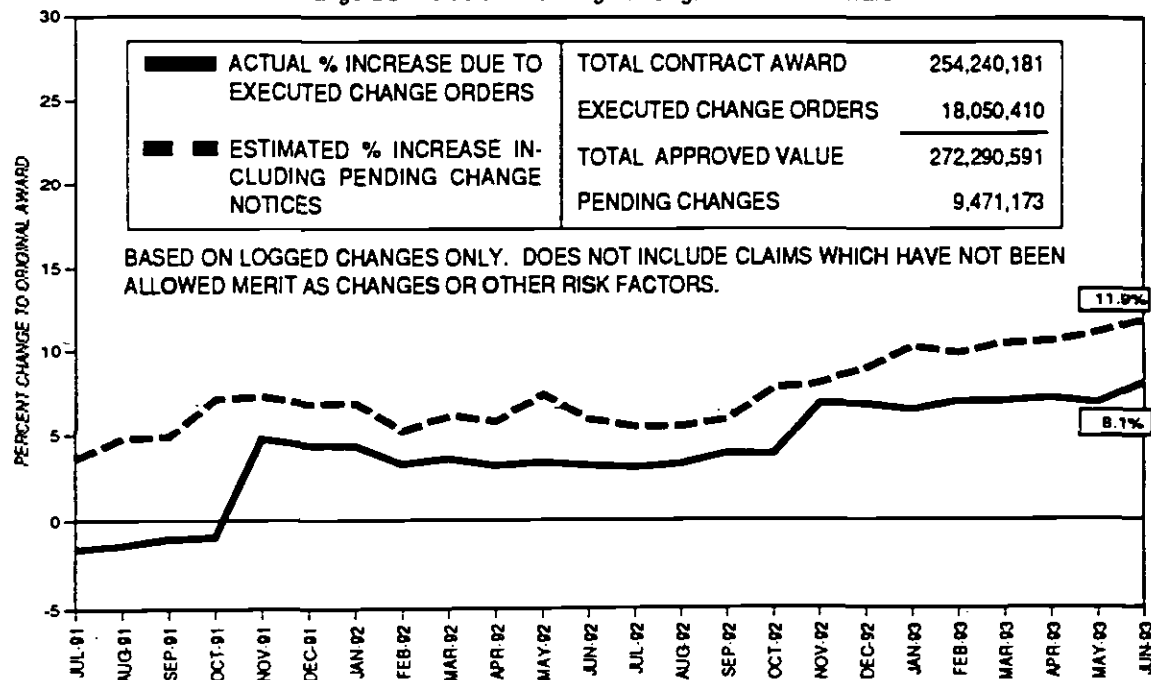


### CONSTRUCTION/PROCUREMENT CONTRACT CHANGES Change Notice Resolution



AGE OF UNRESOLVED CHANGES					
TIME	0-30 days	31-60	61-90	90+	TOTAL ACTIVE
VOLUME	62	28	19	90	199
PERCENT	31%	14%	10%	45%	100%

### CONSTRUCTION/PROCUREMENT CONTRACT CHANGES Change Dollars as a Percentage of Original Contract Award



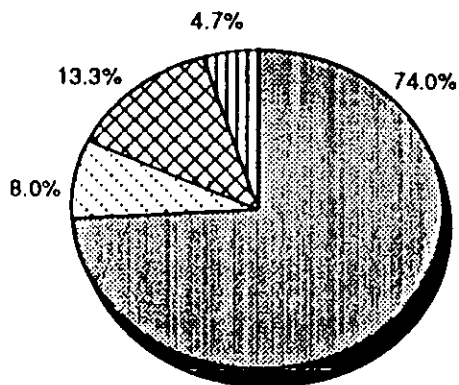
# CONSTRUCTION/PROCUREMENT CHANGE VOLUME BY COST LEVEL AND BASIS

Executed Changes as of 6/25/93

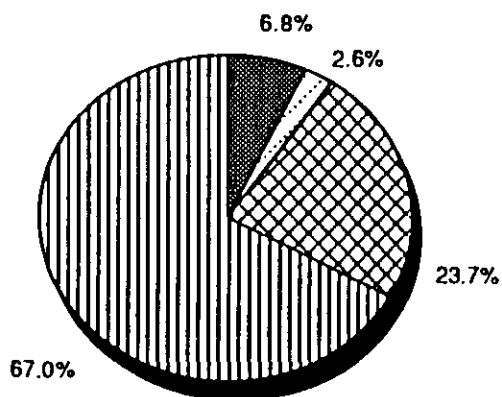
## COST LEVEL

Total: \$178.9 Million

VOLUME



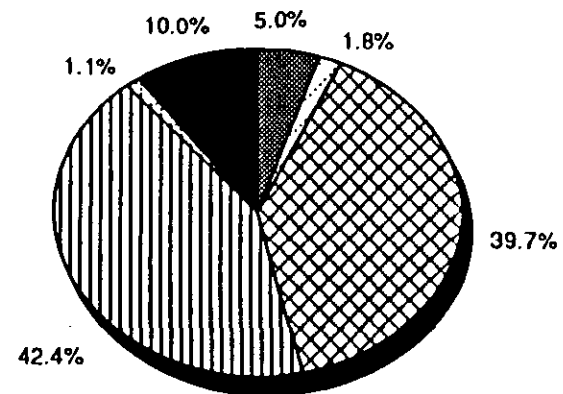
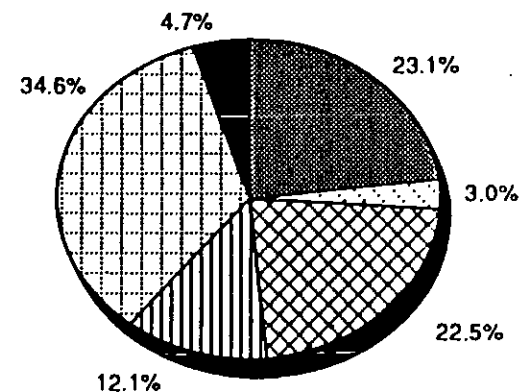
DOLLARS



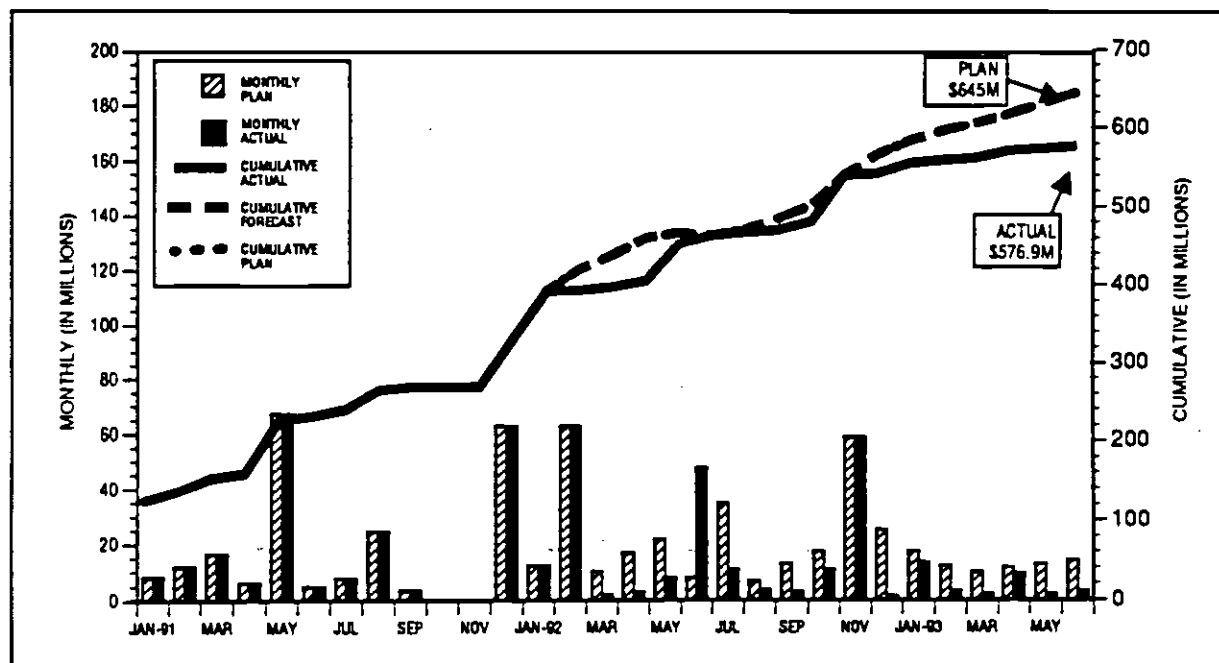
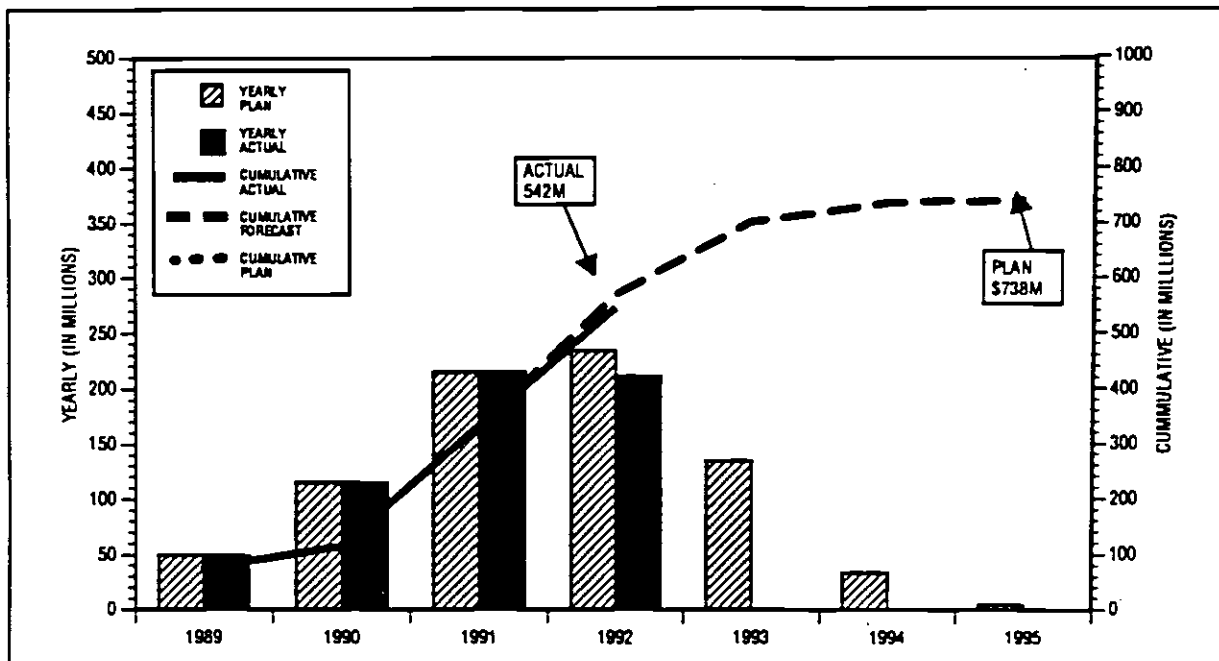
Cost Range	Basis
0-25K	Work Scope Changes
25K-50K	Schedule Changes
50K-200K	Differing Conditions
ABOVE 200K	Administrative Changes
	Design Changes
	Other

## BASIS

Total: 338

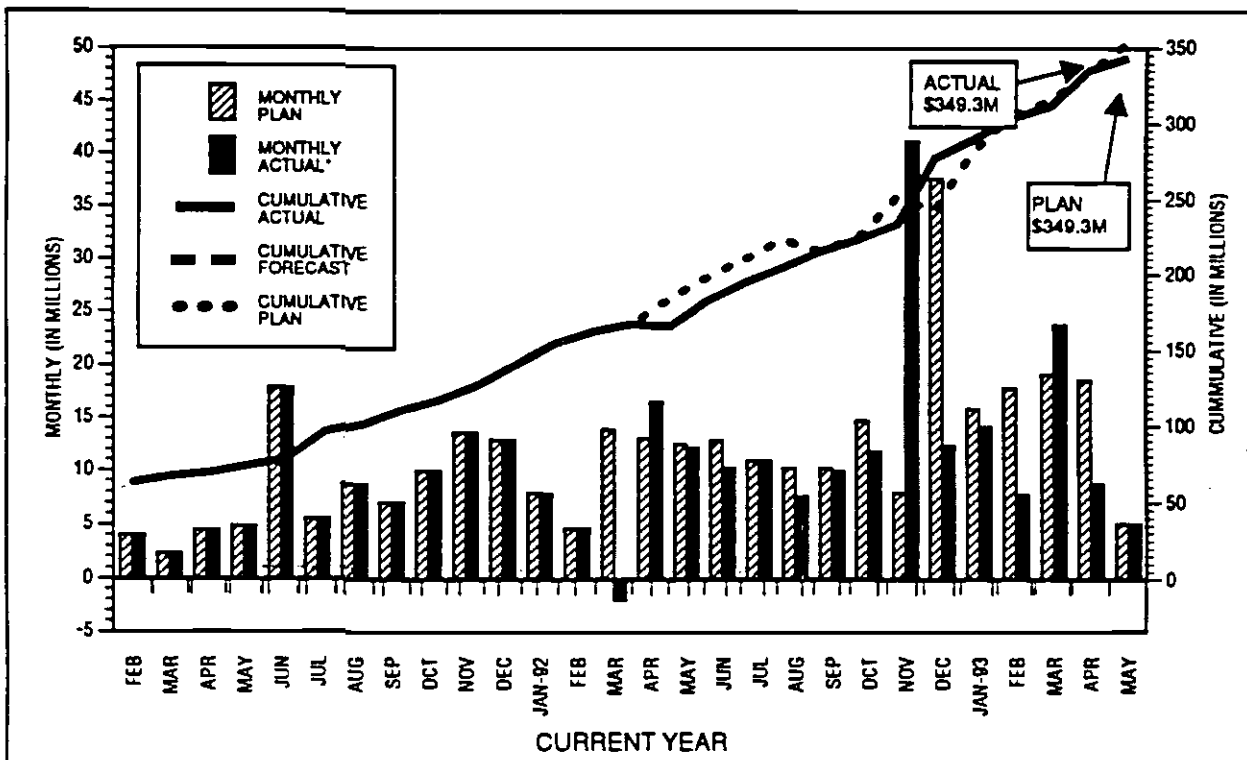
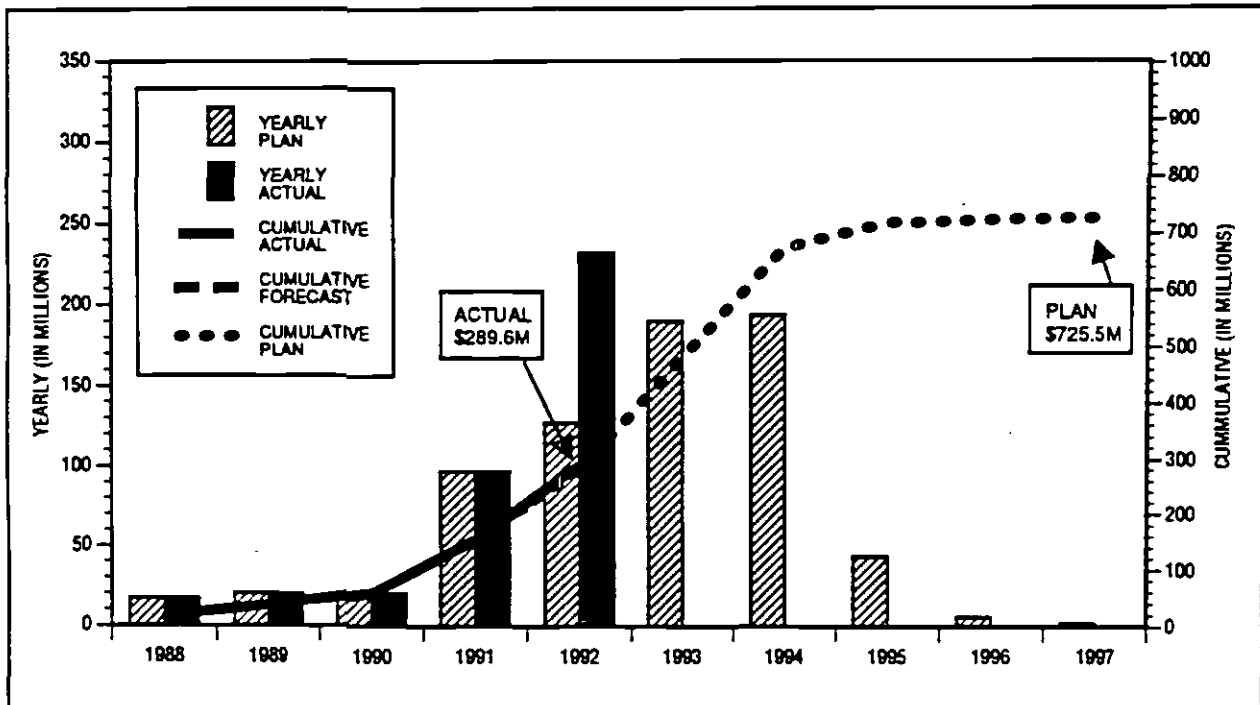


# PROJECT COMMITMENTS



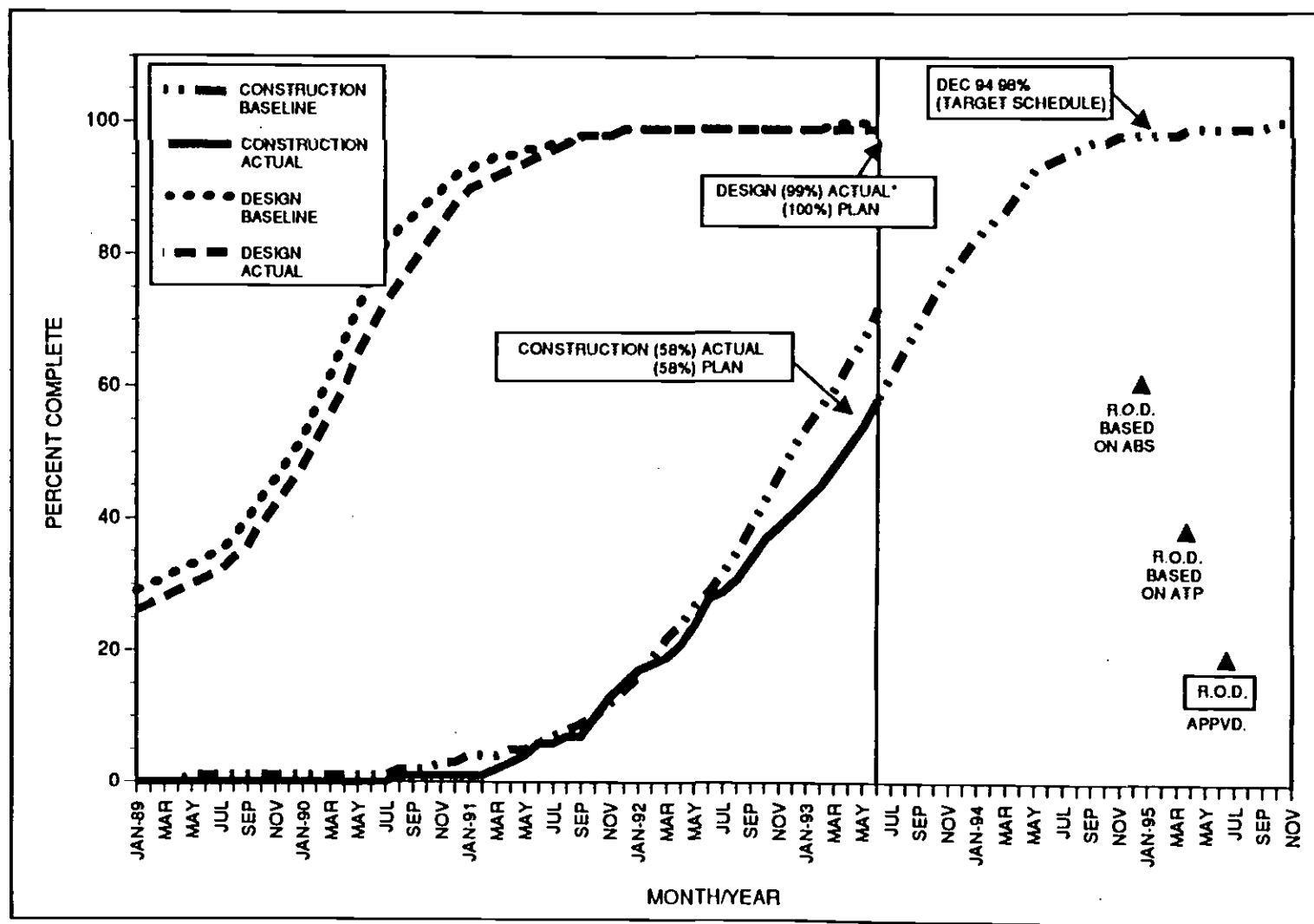
CURRENT YEAR

## PROJECT CASH FLOW



\* ACTUAL EXPENDITURES ARE THROUGH PREVIOUS MONTH END.

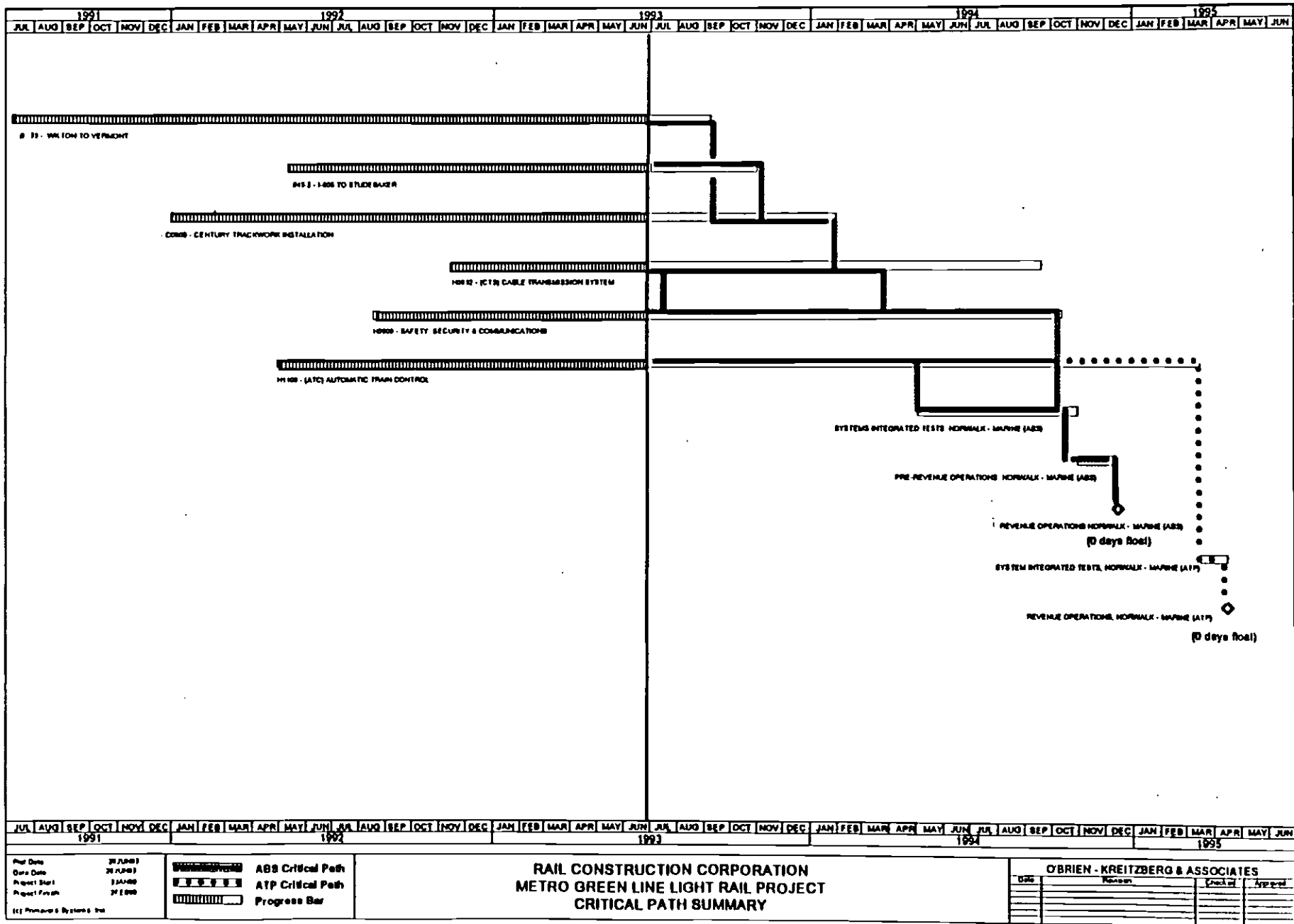
# PROGRESS SUMMARY



\* EXCLUDES NORTH COAST EXTENSION

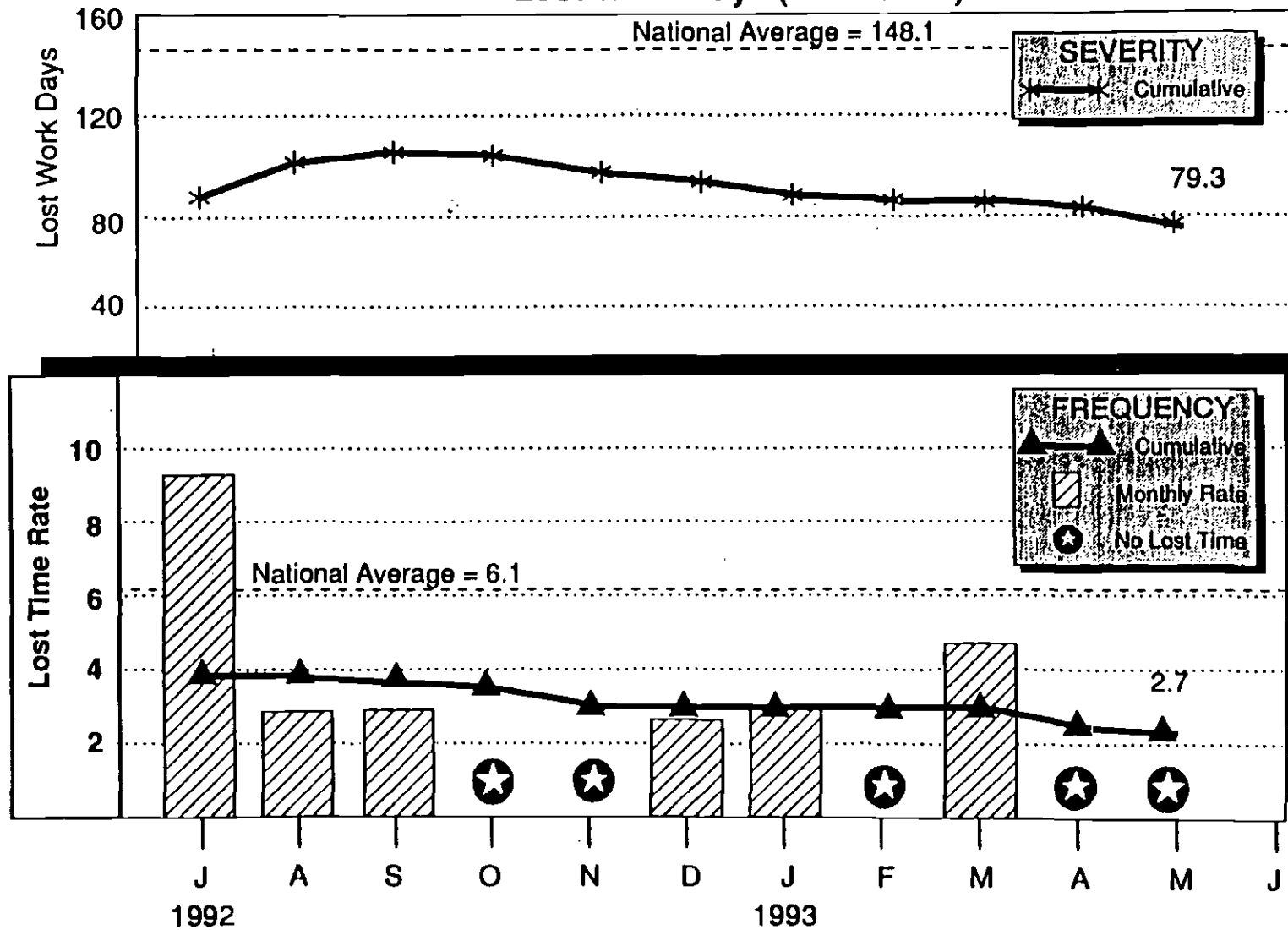
NOTE: Revised Plan Progress Not Available This Month.





# METRO GREEN LINE

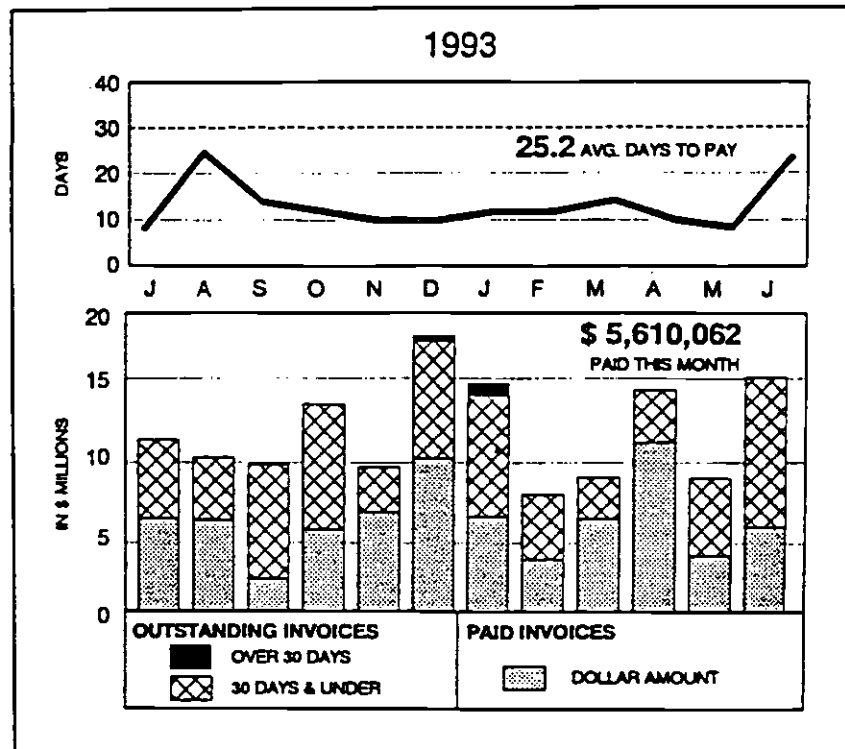
## Summary of Lost Time Accidents (FREQUENCY) and Lost Work Days (SEVERITY)



## INVOICE PROCESSING

- The average time taken to pay invoices for Construction and Procurement contracts (including Insurance) was 25.2 days.
- 15 invoices were paid for a total value of \$ 5,610,062.
- There were 14 outstanding Construction or Procurement invoices under 30 days old for \$ 9,833,458.
- There were no outstanding Construction or Procurement invoices over 30 days old.

Construction/Procurement Invoice Status



Note: The average days to pay is the time from when the Resident Engineer approves a progress payment (invoice) to when Accounting issues a check for this invoice.

## OUTSTANDING INVOICES

Month	Construction/Procurement Invoices				Other Invoices			
	30 Days and Under		Over 30 Days		30 Days and Under		Over 30 Days	
	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value
JAN 1993	17	7,977,962	3	823,007	15	2,354,181	7	2,185,266
FEB 1993	11	4,270,284	0	0	13	3,344,014	7	301,065
MAR 1993	5	2,748,401	0	0	12	950,485	6	177,199
APR 1993	7	3,450,254	0	0	22	2,482,619	3	34,358
MAY 1993	8	5,068,890	0	0	26	5,097,205	5	47,916
JUN 1993	14	9,833,458	0	0	31	6,104,977	9	97,388

## EXECUTIVE SUMMARY

## COST STATUS

- The current forecast remains at \$1,450 billion.

## REAL ESTATE

- Parcel A1163 remains to be closed due to litigation over the removal of underground storage tanks.

## CONTRACT CLOSEOUT

- Continue closeout of the following construction contracts:

LEGEND	
O	Open. Action still required.
	Completed or Not Applicable

CONTRACT CLOSE OUT STATUS  
METRO RED LINE SEGMENT 1

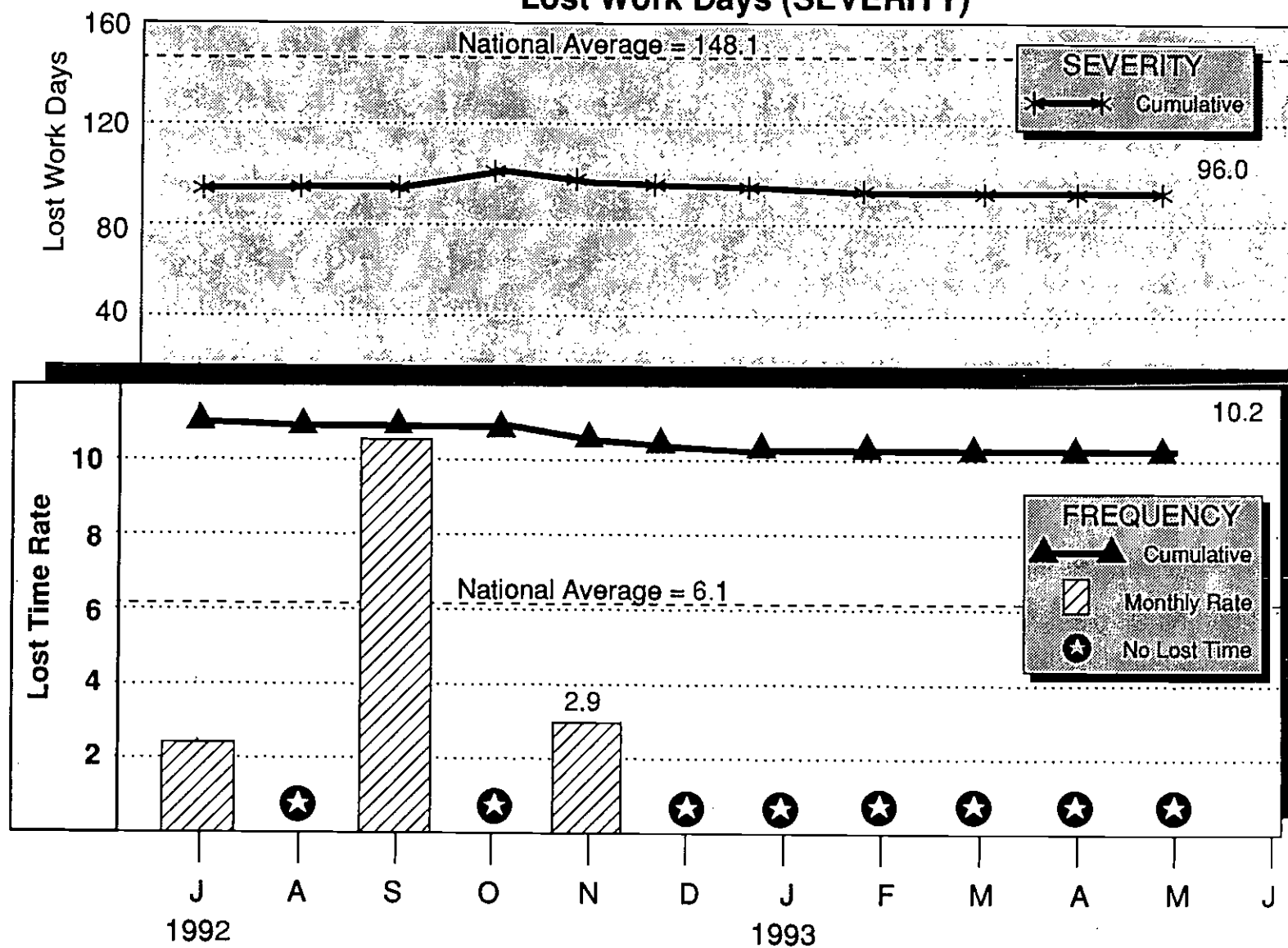
CONTRACT NUMBER	DESCRIPTION	CLOSE OUT STATUS					COMMENTS	PROJECTED CLOSE-OUT DATE
		CLAIMS/CHANGE ORDERS	FINAL PROG. PAYMENT	FINAL RELEASE	FINAL ACCEPT. CERTIF.	EQUIP. FINAL DELIV.		
A130	Yard Lead Transfer Zone	0	0	0	0	0	Final closeout pending claims litigation.	Aug 93
A141	U/S - 5th & Hill Tunnels			0	0	0	Notice of completion recorded.	Jul 93
A165	7th & Flower Station Stg 1	0	0	0	0	0	Final closeout pending claims litigation.	TBD
A187	Wilshire/Alv Stat Stage II			0	0	0	Notice of completion recorded.	Jul 93
A190	Misc. Const/Ancillary Serv.	0	0	0	0	0	Finalizing closeout package.	Aug 93
A610/115	Track Installation	0	0	0	0	0	Final closeout pending claims litigation.	TBD
A612	Contact Rail			0			Contract closed - pending final release.	
A615	C.R. Coverboard		0	0			Contract closed - pending final release.	
A616	Rail Fasteners		0	0			Contract closed - pending final release.	
A620	Automatic Train Control	0	0	0	0		Outstanding claims.	Aug 93
A630	Traction Power Equipment		0	0			Contract closed - pending final release.	
A631	TPE Install		0	0			Contract closed - pending final release.	
A640	Communications	0	0	0	0	0	Active contract.	Sept 93
A650	Passenger Vehicles	0	0	0	0	0	Active contract.	TBD
A710	Escalators & Elevators		0	0			Contract closed - pending final release.	
A740	Ventilation Equipment		0	0	0		Pending resolution of backcharges.	Jul 93
A745	TPSS Air Equipment		0	0			Contract closed - pending final release.	
A760B	Edge Lights			0	0		Contract closed - pending final release.	Jul 93
A795	UPS		0	0			Contract closed - pending final release.	

## REMAINING ACTIVITIES

- Continue support and test of Breda vehicles.
- Continue supporting Grant closeout activities.
- Negotiate closeout of professional services contracts.
- Continue closeout of third party work orders.

# METRO RED LINE SEGMENT 1

## Summary of Lost Time Accidents (FREQUENCY) and Lost Work Days (SEVERITY)



## EXECUTIVE SUMMARY

## COST STATUS

in \$ million

- Current Budget \$1,446.4
- Current Forecast \$1,514.8  
(including new requirements)

The current forecast exceeds the current budget by \$68.4 million due to the Board approved actions incorporating the American Disabilities Act of 1990 at eight stations and enhanced entrances at five of the Vermont/Hollywood Corridor stations and Contract B215 on the Wilshire Corridor.

## SCHEDULE STATUS

- Current Revenue Operation Date
 

Wilshire Corridor	July	1996
Vermont/Hollywood Corridor	September	1998
- Design Progress 93%
- Construction Progress 21%

## REAL ESTATE

	NUMBER OF PARCELS	NUMBER OF PARCELS AVAILABLE	PARCELS NOT AVAILABLE (ON SCHEDULE)	PARCELS NOT AVAILABLE (BEHIND SCHEDULE)	
				NUMBER	AVG. DAYS BEHIND
THIS MONTH	86	65	9	12	66
LAST MONTH	86	63	11	12	60

## EXECUTIVE SUMMARY (CON'T)

- There are now 86 parcels of land required for the Segment 2 Project. The acquisition breakdown for this land is as follows: 31 full takes, 44 subsurface easements, 3 temporary construction easements and 2 part-takes. Six additional parcels have been added for temporary Right-Of-Entry.

To date, there have been 65 parcels acquired. Forty-two of these parcels were acquired through condemnation and the remaining were negotiated acquisitions.

## PUBLIC AFFAIRS

- Public Affairs staff met with the Historic Resources Committee and the Los Angeles Conservancy regarding the preservation of the Wilton Theater's historic terrazzo tile. Mitigation efforts for Contract B251 on the Vermont Corridor were outlined in letters prepared for the MTA and RCC Board. Mitigation issues include the emergency exit shaft planned for 5th Street and New Hampshire Avenue, and trucking agreements with the Los Angeles Unified School District. On the Hollywood Corridor, public affairs met with third party coordination staff, and the DWP to review electrical relocation work for the Hollywood/Vine Station and mitigation commitments made to the community.

## AREAS OF CONCERN

### ONGOING

#### Delay in Real Estate Acquisitions

Concern: There are 12 parcels currently being projected in the worst case scenario as not being available by the scheduled "need dates."

Of the 12 parcels showing a negative float, 8 were late in being certified, 2 unavailable due to delays in the relocation of occupants, 1 delayed in the appraisal process and the last still in negotiations.

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\* Two of the full take parcels are not required for construction.

**AREAS OF CONCERN (CON'T)**

There remains a good probability that all parcels will be available before they are required for construction activities to proceed.

Action: The acquisition schedule is being maintained to avoid negative float.

Status: It remains a high probability that almost all necessary parcels will be acquired prior to need dates.

**Contract B251, Vermont/Hollywood Tunnels**

Concern Difficulties continue in securing a rental real estate parcel from PacBell at 1255 North Vermont Avenue. The installation a the contaminated water treatment plant (to treat the dewatering well discharge) and delays in obtaining city required permits may prevent complete dewatering in advance of tunnel excavation.

Action: The MTA's Environmental Department is proceeding with rental of the space.

Status: An agreement with PacBell regarding the rental of the required real estate parcel is still being pursued. An agreement was not reached by June 21, 1993, the previously cited target date.

**NEW****Contract B251, Vermont/Hollywood Tunnels**

Concern: The Vermont AR tunnel shield machine became damaged during initial mining operations (245 ft), effectively halting tunnel operations.

Action: The Contractor and the shield designer are investigating the cause of the out-of-round deformity in order to determine a solution and repair procedure.

Status: A design procedure for repair of the tunnel shield is being developed.



**AREAS OF CONCERN (CON'T)****Contract B251, Vermont/Hollywood Tunnels****Sixth and Vermont Channel**

**Concern:** Initial drilling for geotechnical instrumentation indicated a wide channel filled with trash and rubble. There are indications of hydrocarbon contamination and wet, unstable soil conditions at the tunnel level.

**Action:** The RCC will be requested to instruct the environmental subcontractor to investigate the soil conditions by drilling exploratory bore holes to determine environmental, geological, geotechnical and hydrological conditions.

**Status:** The RCC was recently informed of the environmental conditions.

**RESOLVED****Contract B251, Vermont/Hollywood Tunnels**

**Concern:** Serious delays have occurred in obtaining an encroachment permit required for the excavation of a tunnel under a Cal Trans structure (Vermont Avenue viaduct for US101).

**Action:** Cal Trans desires additional geotechnical instrumentation installed at the bridge structure.

**Status:** The Construction Manager has finalized the locations of the additional instrumentation and issued a Change Notice to the contractor for the installation of the instrumentation.

## FTA PROJECT MANAGEMENT OVERSIGHT CONSULTANT ITEMS FOR RCC ACTION

The following items reflect action requirements identified in the May Monthly Project Report submitted to FTA by their Project Management Oversight Consultant, Hill International.

### ONGOING

#### March 1993, Financial Management Information System

Concern: The MTA should focus on the integration of the accounting systems and integrate them with the RCC's cost management system.

Action: Integrate the existing RTD and LACTC accounting systems and the RCC cost management system.

Status: A draft report was developed for review but finalization of the report has been withheld pending the completion of the MTA merger process. Currently, the RCC cost management system is not compatible with the other databases and the merger of the MTA systems is under review.

NEW                NONE

RESOLVED        NONE

**KEY ACTIVITIES - JUNE**Design

- Contract B213, Wilshire/Vermont Station, Stage II Site Demolition, Notice to Proceed issued June 23, 1993.
- Contract B219, Wilshire/Vermont Station, prebid meeting held June 15, 1993.
- Contract B241, Vermont/Beverly Station, Prebid meeting held June 3, 1993.
- RCC and MTA Boards approved Contract B268, Vermont/Sunset Site Demolition, June 14 and June 23, 1993, respectively.
- Contract B281, Hollywood/Vine Station, final design submittal issued June 17, 1993.
- Contract B612, Contact Rail, Coverboard & Insulator (procurement), prebid meeting held June 16, 1993.
- Contract B614, Special Trackwork (procurement), Notice to Proceed issued June 18, 1993.
- Contract B620, Automatic Train Control (design/supply/install), bid opening and bid report completed June 3 and June 18, 1993, respectively.
- Contract B631, Traction Power (design/install), prebid meeting held June 17, 1993.
- Contract B641, Radio (design/furnish/install), final design submittal made June 8, 1993.
- Contract B643, Closed Circuit TV (procurement), issued prefinal design submittal June 8, 1993.
- Contract B645, SCADA (design/furnish/install), camera ready issued June 1, 1993.
- MTA Board approved Contract B710, Escalator/Elevator (design/furnish/install), June 23, 1993.

- Contract B760, Signs and Graphics (design/supply), camera ready documents issued June 8, 1993.
- Contract B795, U.P.S. Equipment, bid opening held June 25, 1993.

### Construction

- Contract B201, Wilshire/Alvarado to Wilshire/Vermont Line, completed AR tunnel walkways and grouting in the AL tunnel.
- Contract B211, Wilshire/Vermont Station Stage 1, placed upper track level concrete between gridlines 6 and 10; and north and south exterior walls through gridline 19.
- Contract B213, Wilshire/Vermont Station Stage II Site Demolition, demolition of the Bank of America Building in preparation for the construction of the station entrance, was awarded.
- Contract B221, Wilshire/Normandie Station and Line, continued arch, crosspassage and mezzanine exterior wall concrete work; and completed the installation of the tunnel invert slab in the tunnels.
- Contract B231, Wilshire/Western station and Crossover, completed main station entrance excavation and continued installation of HDPE in the main entrance, Fresh Air Intakes #1 and #2, and Under Platform Exhausts #1 and #2.
- Contract B251, Vermont/Hollywood Tunnels, continue to excavate the West AR tunnel. Deliver and set up the second shield for South AR tunnel and the third shield in the Hollywood leg, AL alignment.
- Contract B288, Demolition for Hollywood/Vine, contract was awarded and Notice to Proceed was issued. The contractor has begun initial activities.
- Contract B630, Traction Power Substation Equipment, several submittals were approved and RFI's completed.
- Contract B740, Ventilation Equipment, effort focused on expediting outstanding submittals.
- Contract B745, Air Handlers & TPSS Fans, resolved issues regarding equipment size and station openings.

## KEY ACTIVITIES - PLANNED FOR JULY

### Design

- Contract B215, Wilshire/Vermont Station, Stage II, issue prefinal design submittal July 6, 1993.
- Contract B229, Temporary Ventilation (Wilshire Corridor), advertise July 7, 1993.
- Contract B261, Vermont/Sunset Station, continue working towards a final design submittal in August.
- Contract B271, Hollywood/Western Station, final design submittal July 19, 1993.
- Contract B645, TRACS, advertise July 6, 1993.
- Contract B646, Fire Management Equipment, camera ready documents planned for completion on July 16, 1993.

### Construction

- Contract B201, Wilshire/Alvarado to Wilshire/Vermont Line, proceed with the placement of reinforced concrete paved service roads on the lake bottom, and the replacement of trees in the island area.
- Contract B211, Wilshire/Vermont Station Stage 1, continue work on forms and rebar, piping and electrical equipment for the upper track level supported slab between gridlines 1 and 6.
- Contract B213, Wilshire/Vermont Station Stage II Site Demolition, continue demolition work.
- Contract B221, Wilshire/Normandie Station and Line, continue mezzanine wall pours, crosspassage and arch concrete; and proceed with the excavation and installation of the support system in the turnout structure.
- Contract B231, Wilshire/Western station and Crossover, continue main station backfill operations, and excavation procedures at Under Platform Exhaust #1, Emergency Exit #1, Combined Exhaust & Emergency Exit #4, and Blast Relief Shaft #3.

- Contract B251, Vermont/Hollywood Tunnel, install geotechnical instrumentation and continue with tunnel excavation.
- Contract B288, Demolition for Hollywood/Vine, is being prepared for use as a temporary parking lot.
- Contract B630, Traction Power Substation Equipment, expedite RFI #6 regarding 10 years spare parts availability and bonding issue.
- Contract B740, Ventilation Equipment, continue expediting outstanding submittals.
- Contract B745, Air Handlers & TPSS Fans, continue to resolve issues regarding equipment size and station openings.

**RAIL CONSTRUCTION CORPORATION  
PROJECT COST REPORT  
COST BY ELEMENT**

**Project : METRO RED LINE SEGMENT 2**

**Status Period: 29-May-93 to 25-June-93  
Status Date : 25-June-93  
Units : Dollars in Thousands**

ELEMENT / DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		INCURRED COSTS		EXPENDITURES (1)		CURRENT FORECAST		FORECAST VARIANCE
		PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
T Construction	893,000	7,322	948,352	2,591	466,811	8,631	237,418	11,898	220,960	(6,275)	942,148	(6,204)
S Professional Services	289,150	39,476	354,803	46,374	330,553	8,660	149,716	11,248	149,716	(10,273)	341,525	(13,278)
R Real Estate	79,827	7,001	83,568	0	71,961	707	65,910	707	65,910	0	89,751	6,183
F Utility/Agency Force Accounts	36,668	0	18,775	1,796	11,307	59	4,786	59	4,786	6,779	28,533	9,758
D Special Programs	2,044	2,678	4,402	341	825	6	282	6	282	0	7,723	3,321
C Contingency	145,743	(56,477)	36,532	0	0	0	0	0	0	9,769	37,052	520
A Project Revenue	0	0	0	0	0	0	(182)	0	(182)	0	(300)	(300)
<b>PROJECT TOTAL</b>	<b>1,446,432</b>	<b>0</b>	<b>1,446,432</b>	<b>51,102</b>	<b>881,457</b>	<b>18,063</b>	<b>457,930</b>	<b>23,918</b>	<b>441,472</b>	<b>0</b>	<b>1,446,432</b>	<b>0</b>
<b>NEW REQUIREMENTS</b>												
T Construction	0	(410)	55,024	0	0	0	0	0	0	0	60,014	4,990
S Professional Services	0	410	8,226	0	4,465	0	4,325	(606)	1,562	0	8,226	0
R Real Estate	0	0	0	0	0	0	0	0	0	0	0	0
F Utility/Agency Force Accounts	0	0	0	0	0	0	0	0	0	0	0	0
D Special Programs	0	0	0	0	0	3	3	3	3	0	98	98
C Contingency	0	0	2,000	0	0	0	0	0	0	0	0	(2,000)
A Project Revenue	0	0	0	0	0	0	0	0	0	0	0	0
<b>NEW REQUIREMENTS TOTAL</b>	<b>0</b>	<b>0</b>	<b>65,250</b>	<b>0</b>	<b>4,465</b>	<b>3</b>	<b>4,328</b>	<b>(603)</b>	<b>1,565</b>	<b>0</b>	<b>68,338</b>	<b>3,088</b>
<b>SEGMENT 2 PROJECT TOTAL</b>	<b>1,446,432</b>	<b>0</b>	<b>1,511,682</b>	<b>51,102</b>	<b>885,922</b>	<b>18,066</b>	<b>462,258</b>	<b>23,315</b>	<b>443,037</b>	<b>0</b>	<b>1,514,770</b>	<b>3,088</b>

(1) EXPENDITURES ARE FOR THE PERIOD OF 30-APR-93 TO 28-MAY-93  
NOTE: REFER TO APPENDIX FOR REPORT DEFINITIONS.

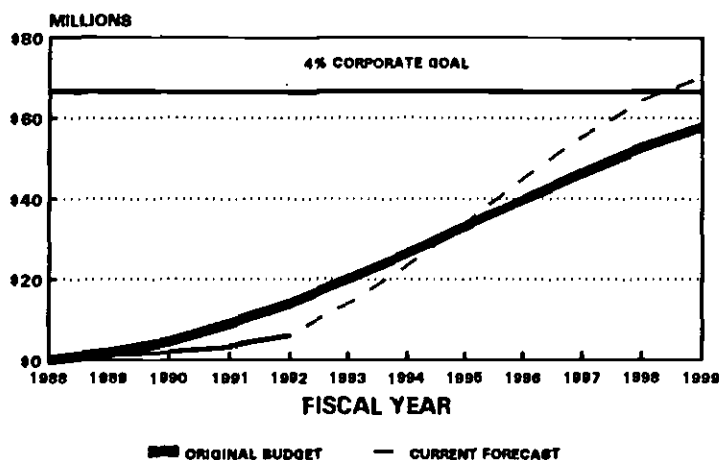
RAIL CONSTRUCTION CORPORATION  
METRO RAIL PROJECT SEGMENT 2  
(IN THOUSAND OF DOLLARS)

STATUS OF FUNDS BY SOURCE

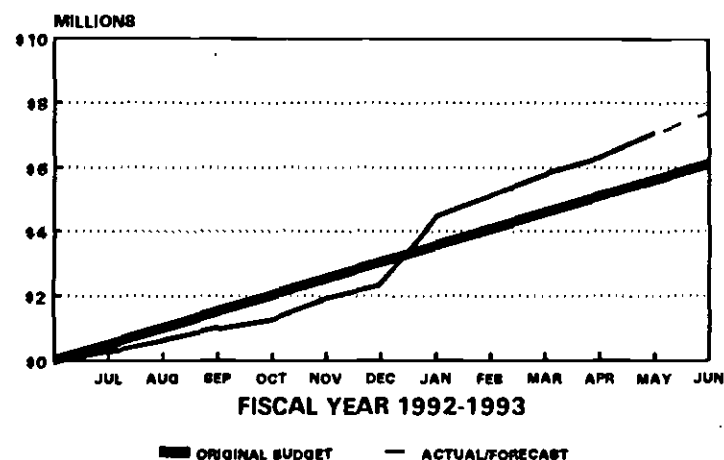
SOURCE	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	* COMMITMENTS		EXPENDITURES		BILLED TO SOURCE	
			\$	%	\$	%	\$	%
FTA-SECTION 3	\$667,000	\$548,028	\$356,030	53%	\$172,717	26%	\$172,717	26%
FTA-SECTION 3 DEFERRED LOCAL SHARE (1)			\$38,522		\$28,044		\$28,044	
STATE	\$185,985	\$133,000	\$133,000	72%	\$133,000	72%	\$133,000	72%
MTA	\$439,447	\$76,377	\$273,806	62%	\$54,606	12%	\$54,606	12%
CITY OF LA	\$96,000	\$21,400	\$60,104	63%	\$33,110	34%	\$31,456	33%
BENEFIT ASSESS.	\$58,000	\$0	\$19,995	34%	\$19,995	34%	\$0	0%
COST OVERRUN ACCOUNT (2)	\$0	\$12,793	\$0	0%	\$0	0%	\$0	0%
BENEFIT ASSESS. SHORTFALL (3)	\$0	\$0	\$0	0%	\$0	0%	\$19,995	
TOTAL	\$1,446,432	\$791,598	\$881,457	61%	\$441,472	31%	\$439,818	30%
PROP C: AMERICAN DISABILITY ACT	\$5,109	\$0	\$336	7%	\$82	2%	\$82	2%
PROP A: TRANSIT ENHANCEMENTS	\$63,229	\$0	\$4,129	7%	\$1,483	2%	\$1,483	2%
GRAND TOTAL	\$1,514,770	\$791,598	\$885,922	58%	\$443,037	29%	\$441,383	29%
(1) FTA Section 3 Deferred Local Share. Commitments and expenditures are effective starting July 1st, 1992. (2) The Cost Overrun Account includes CAPRA funds only. (3) The current Benefit Assessment District revenue shortfall is being funded by MTA.								



# AGENCY COSTS RED LINE SEGMENT 2



# FISCAL YEAR 1993 AGENCY COSTS RED LINE SEGMENT 2



## PROJECT AGENCY COSTS RED LINE SEGMENT 2 (\$000)

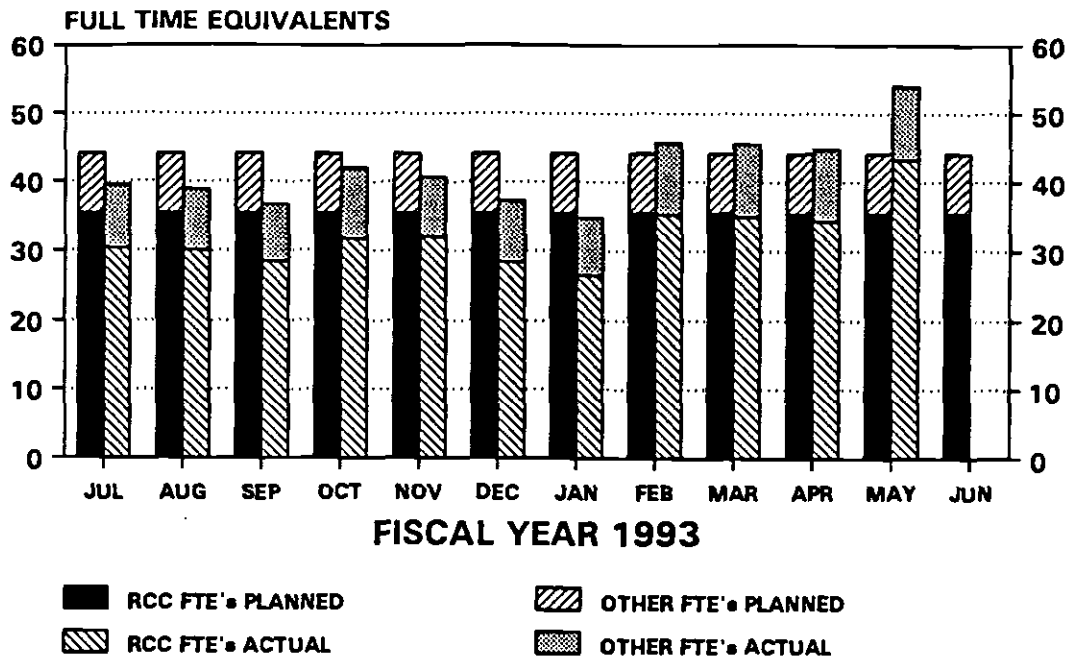
TOTAL PROJECT BUDGET	\$1,446,432
ORIGINAL BUDGET	\$57,840
BUDGET % OF TOTAL PROJECT	4.0%
CURRENT FORECAST	\$70,237
FORECAST % OF TOTAL PROJECT	4.9%

## FISCAL YEAR 1993 AGENCY COSTS RED LINE SEGMENT 2 (\$000)

ORIGINAL BUDGET	\$6,131
CURRENT FORECAST	\$7,723
ACTUAL TO DATE	\$7,028

## STAFFING PLAN VS. ACTUAL

### RED LINE SEGMENT 2



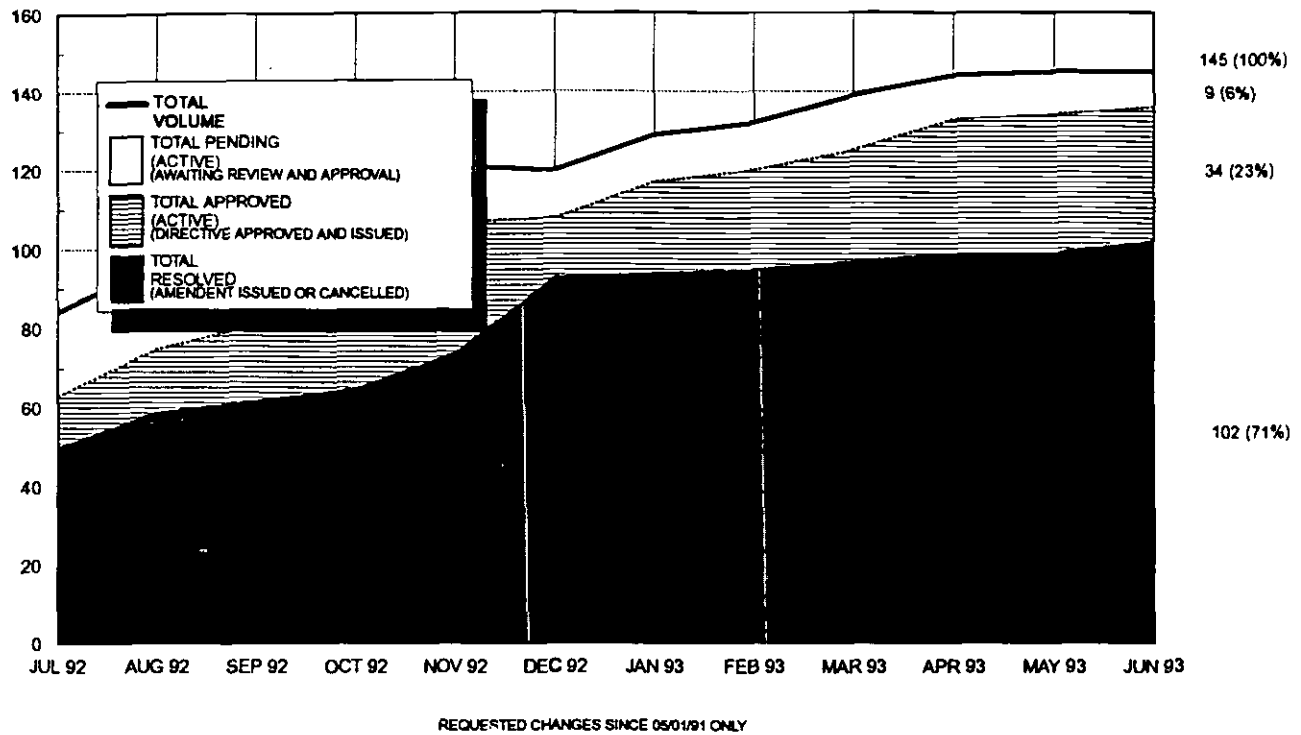
FY'93 Budget

## RED LINE (SEGMENT 2) STAFFING PLAN

### FISCAL YEAR 1993

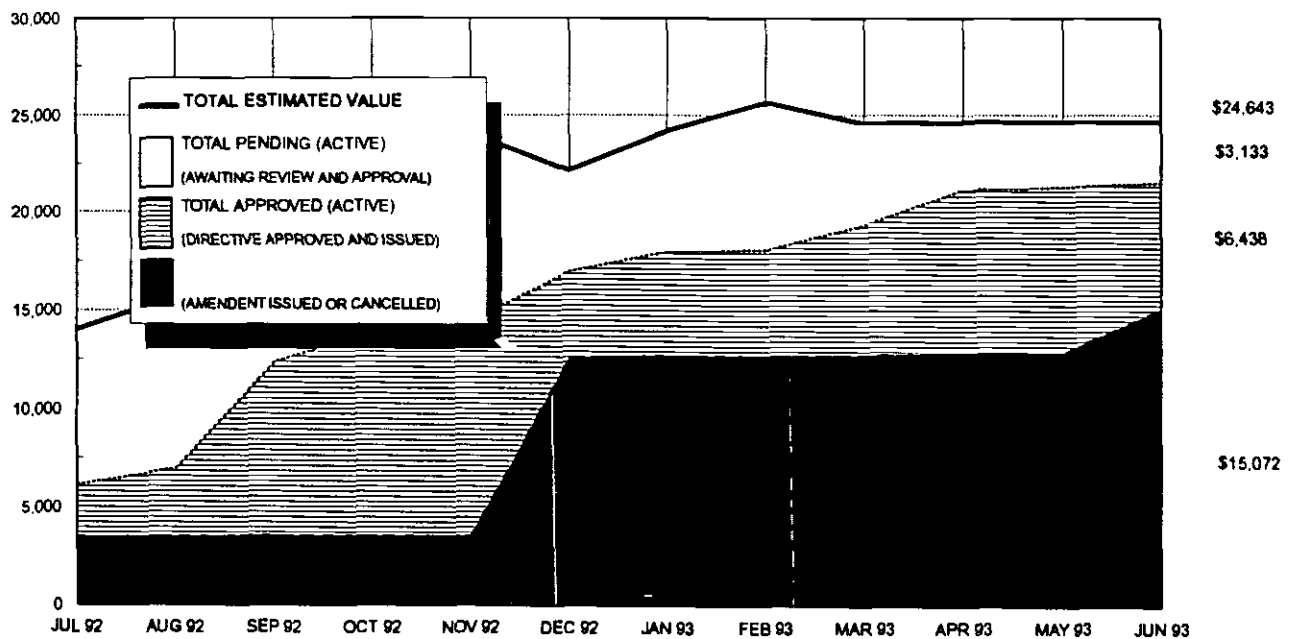
RCC FTE's PLANNED	35
RCC FTE's ACTUAL	43
OTHER FTE's PLANNED	9
OTHER FTE's ACTUAL	11
TOTAL FTE's PLANNED	44
TOTAL FTE's ACTUAL	54

**CONSULTANT CONTRACT CHANGE SUMMARY  
RED LINE SEG-2 CONSULTANT CHANGE REQUEST VOLUME**

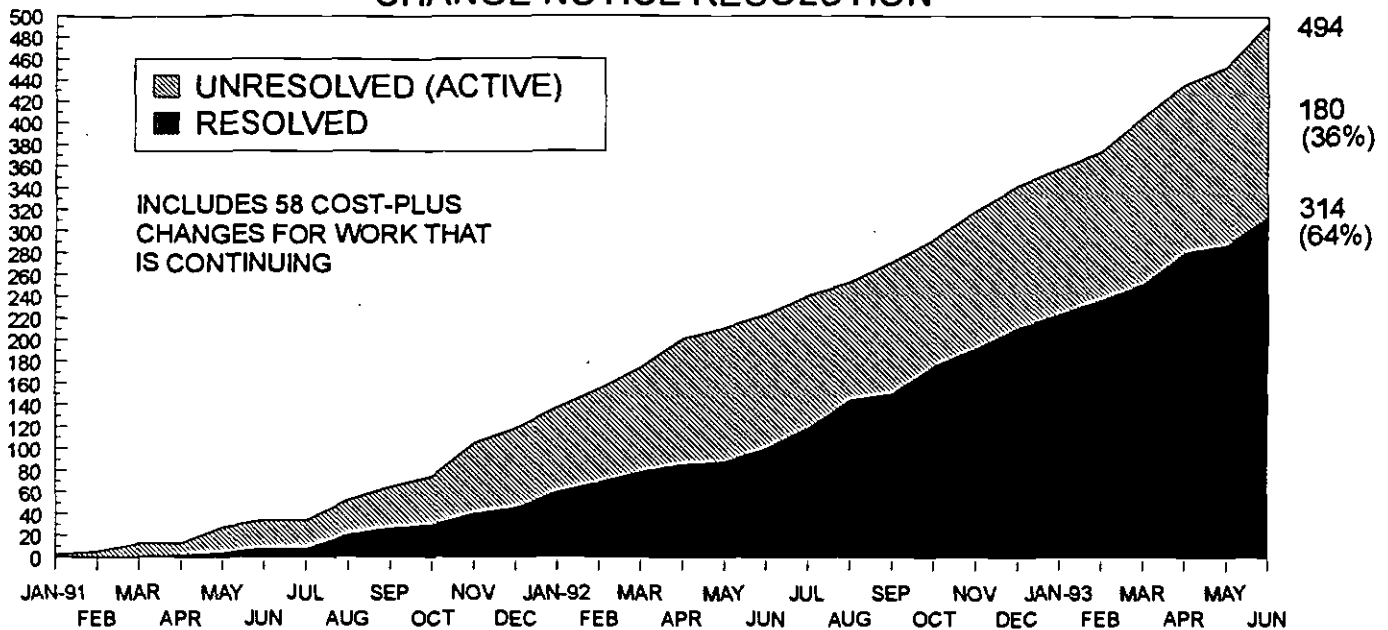


AGE OF UNRESOLVED CONSULTANT CHANGES					
TIME	0-30 DAYS	30-60 DAYS	61-90 DAYS	OVER 90	TOTAL ACTIVE
VOLUME	2	1	2	38	43
PERCENT	5%	2%	5%	88%	100%

**CONSULTANT CONTRACT CHANGE SUMMARY  
RED LINE SEG-2 CONSULTANT CHANGE REQUEST VALUES**



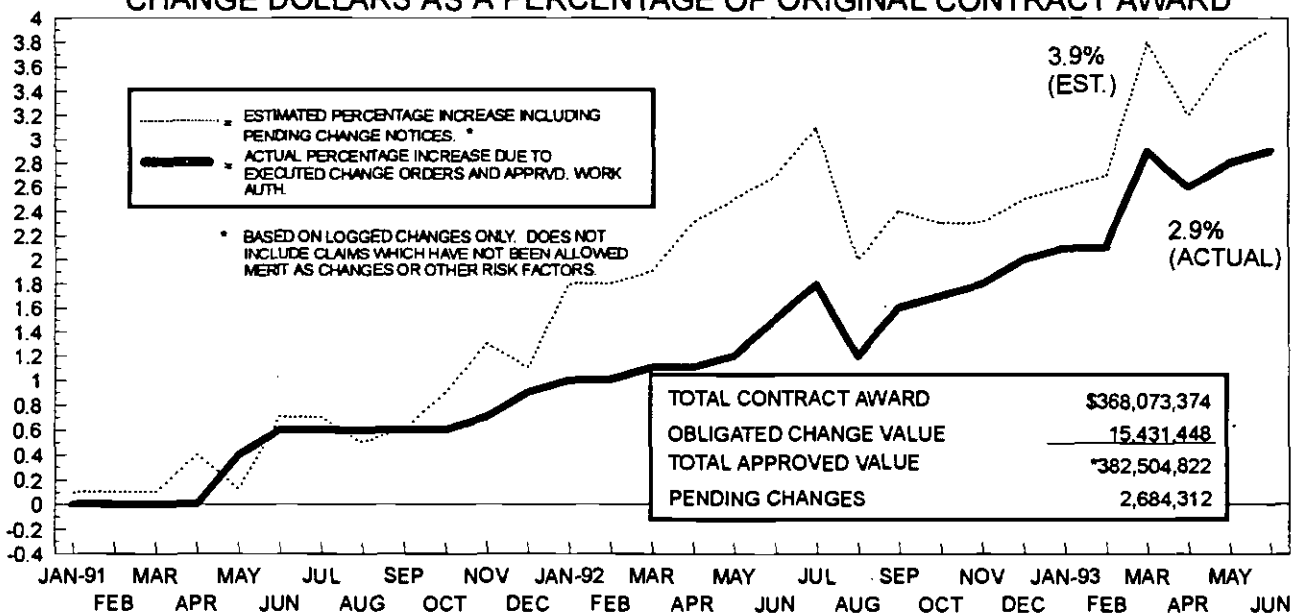
### CONSTRUCTION/PROCUREMENT CONTRACT CHANGES CHANGE NOTICE RESOLUTION



### AGE OF UNRESOLVED CHANGES

TIME	0-30 DAYS	31-60	61-90	OVER 90	TOTAL ACTIVE
VOLUME	77	14	12	77	180
PERCENT	43%	8%	6%	43%	100%

### CONSTRUCTION/PROCUREMENT CONTRACT CHANGES CHANGE DOLLARS AS A PERCENTAGE OF ORIGINAL CONTRACT AWARD



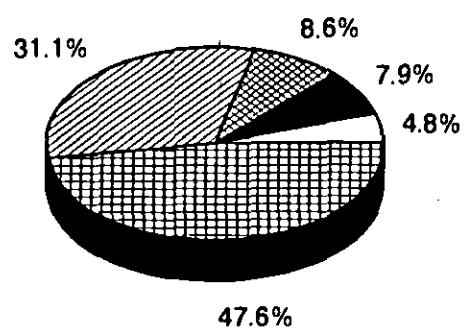
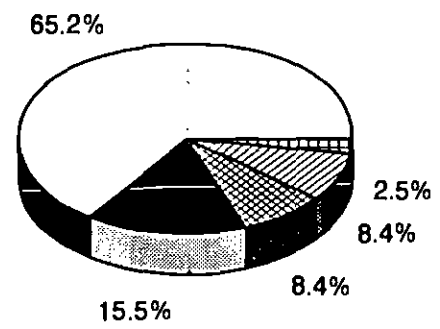
\*THESE FIGURES REFLECT CORRECTED INFORMATION AVAILABLE AT THE TIME OF THIS REPORT

# CONSTRUCTION/PROCUREMENT CHANGE VOLUME BY COST LEVEL AND BASIS BASED ON EXECUTED CHANGES AS OF 06/25/93

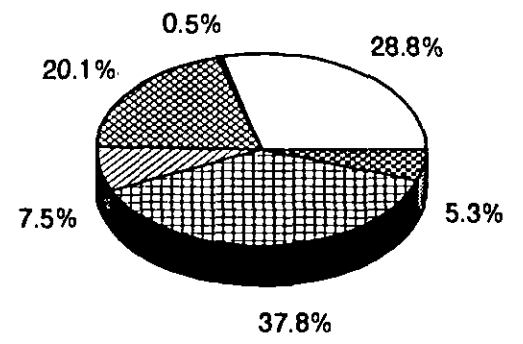
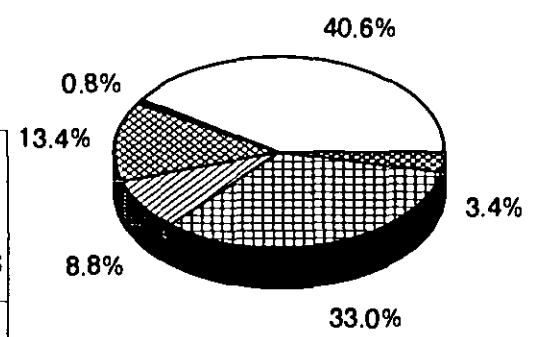
**COST LEVEL**  
Total Cost: \$7,771,788\*

**BASIS**  
Total Volume: 239 CN's

VOLUME  
DOLLARS

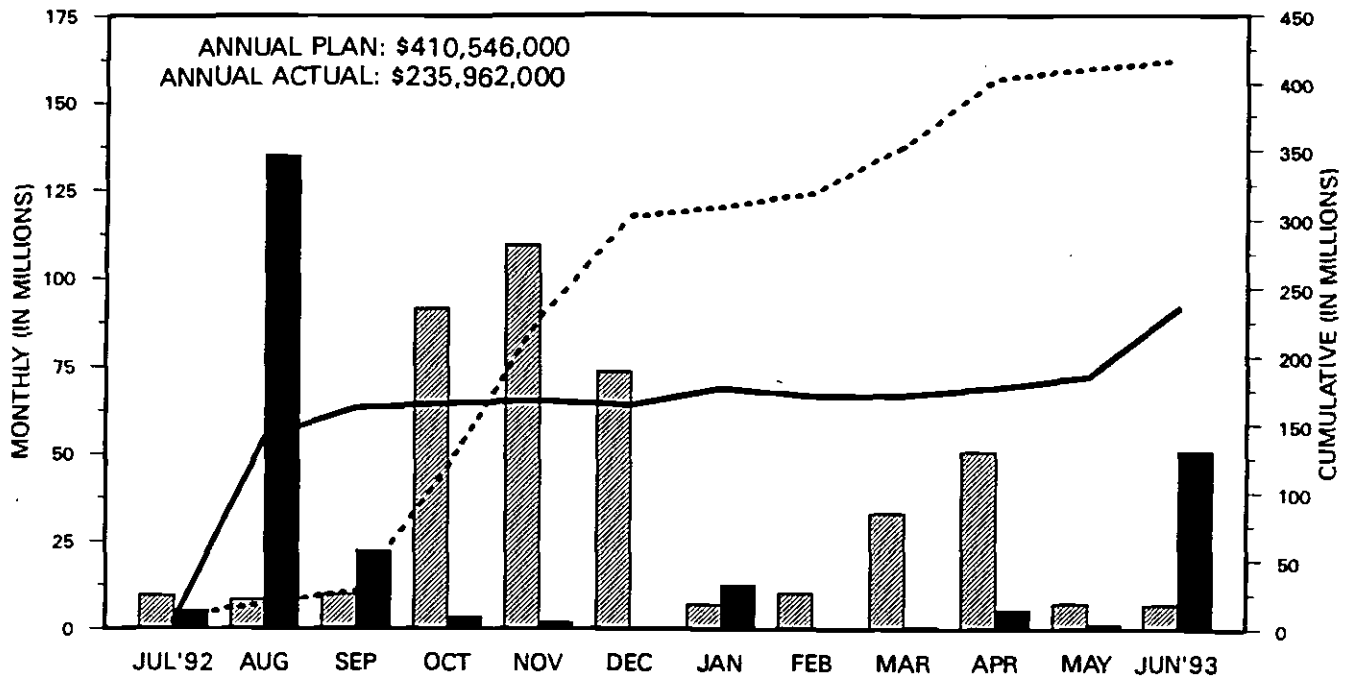


Legend	
Cost Range	Basis
\$ 0-10K	WORK SCOPE CHANGES
10-25K	SCHEDULE CHANGES
25-50K	DIFFERING CONDITIONS
50-200K	ADMINISTRATIVE
200-1 MIL	DESIGN CHANGES
ABOVE 1 MIL	MANAGEMENT ISSUES

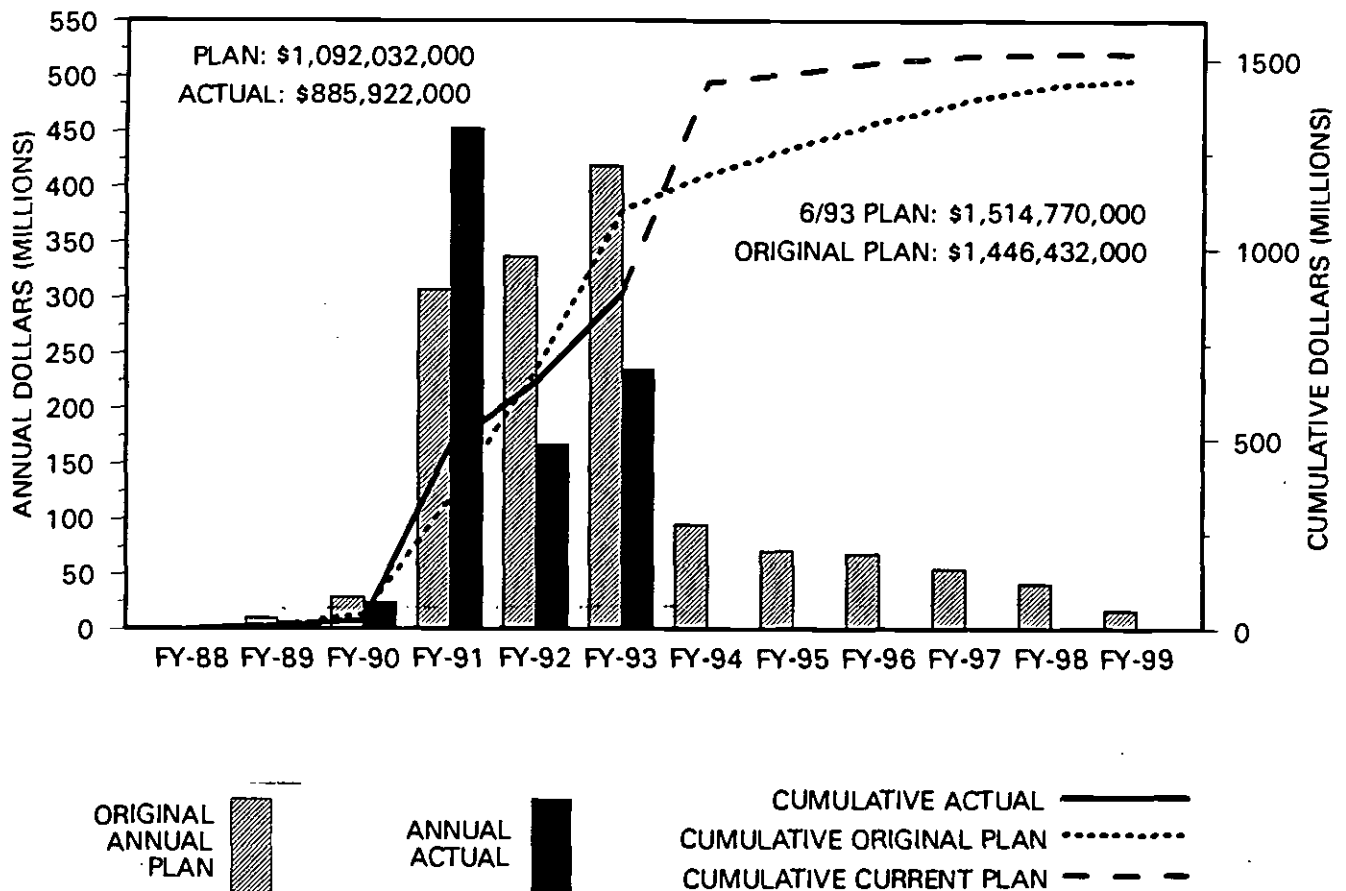


\* INCORPORATES SOME SEGMENT 3 COSTS

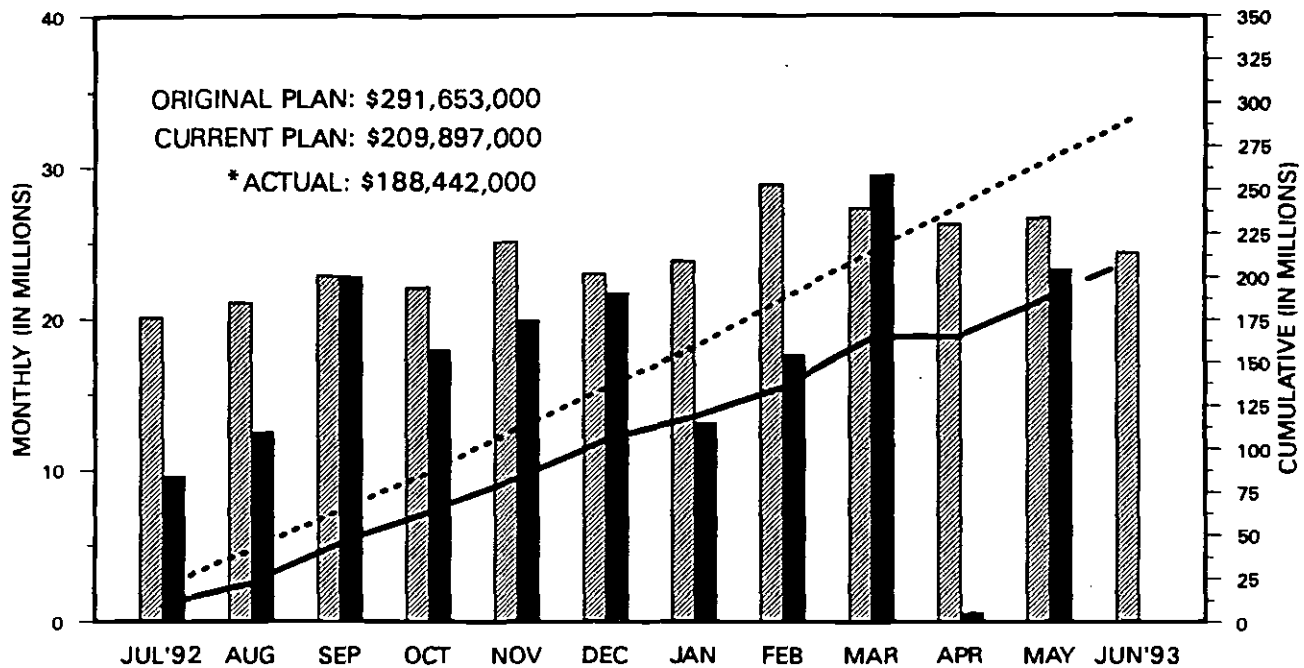
### ANNUAL PROJECT COMMITMENTS (FY '93)



### TOTAL PROJECT COMMITMENTS

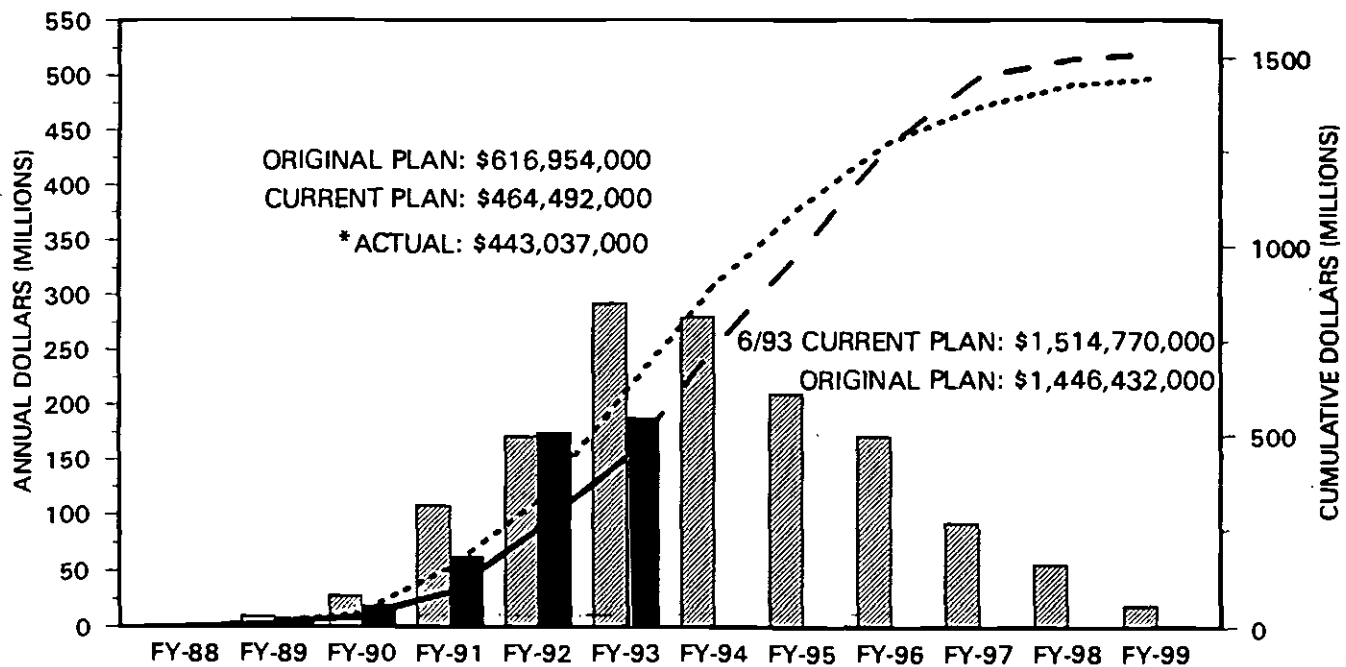


## ANNUAL PROJECT CASHFLOW (FY '93)



\* CASHFLOW ESTIMATED FOR CURRENT MONTH

## TOTAL PROJECT CASHFLOW



\* CASHFLOW ESTIMATED FOR CURRENT MONTH

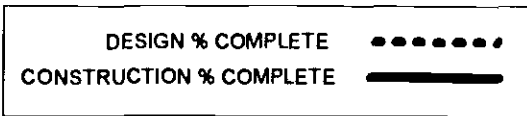
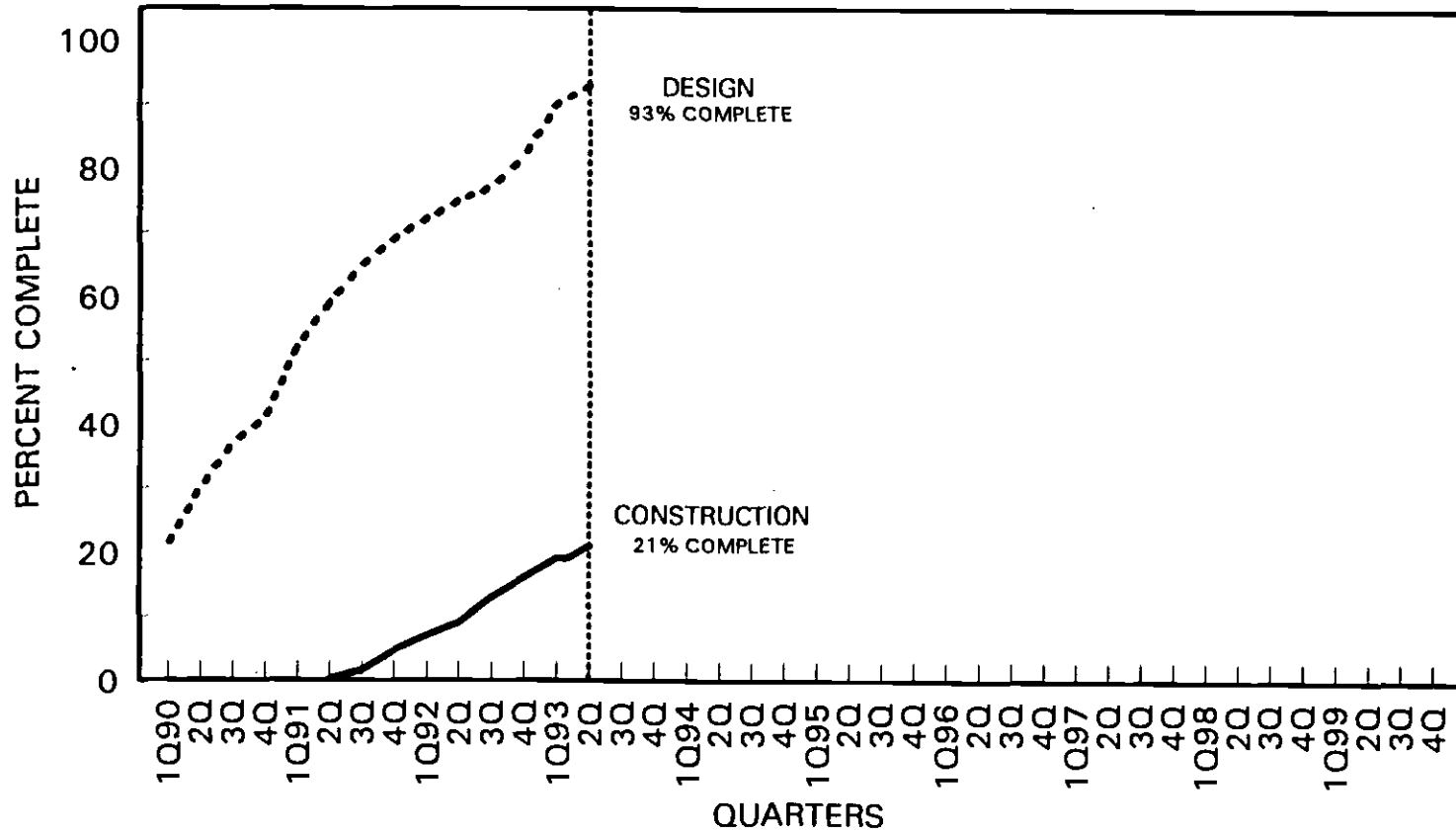
ORIGINAL  
ANNUAL  
PLANANNUAL  
ACTUAL

CUMULATIVE ACTUAL

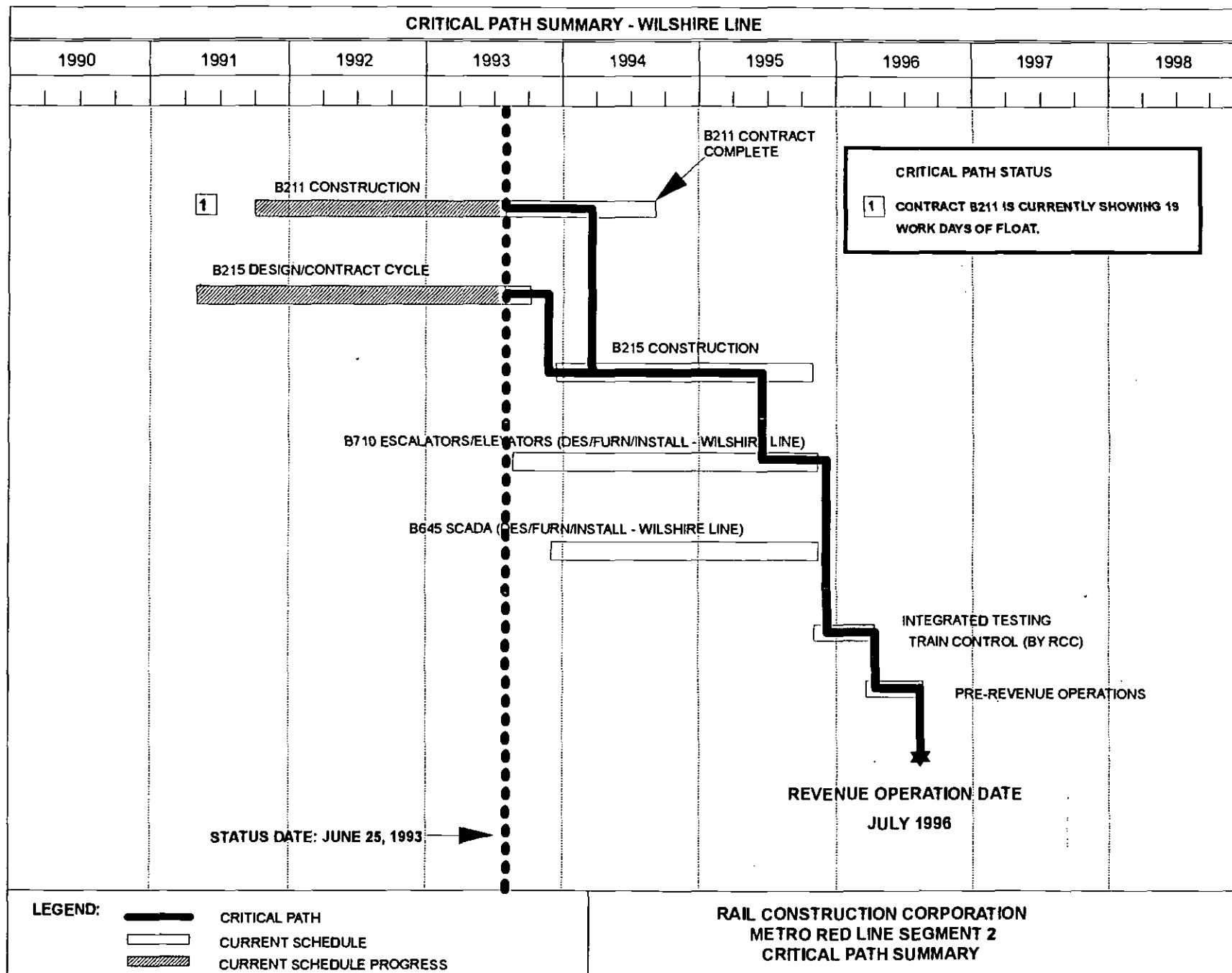
CUMULATIVE ORIGINAL PLAN

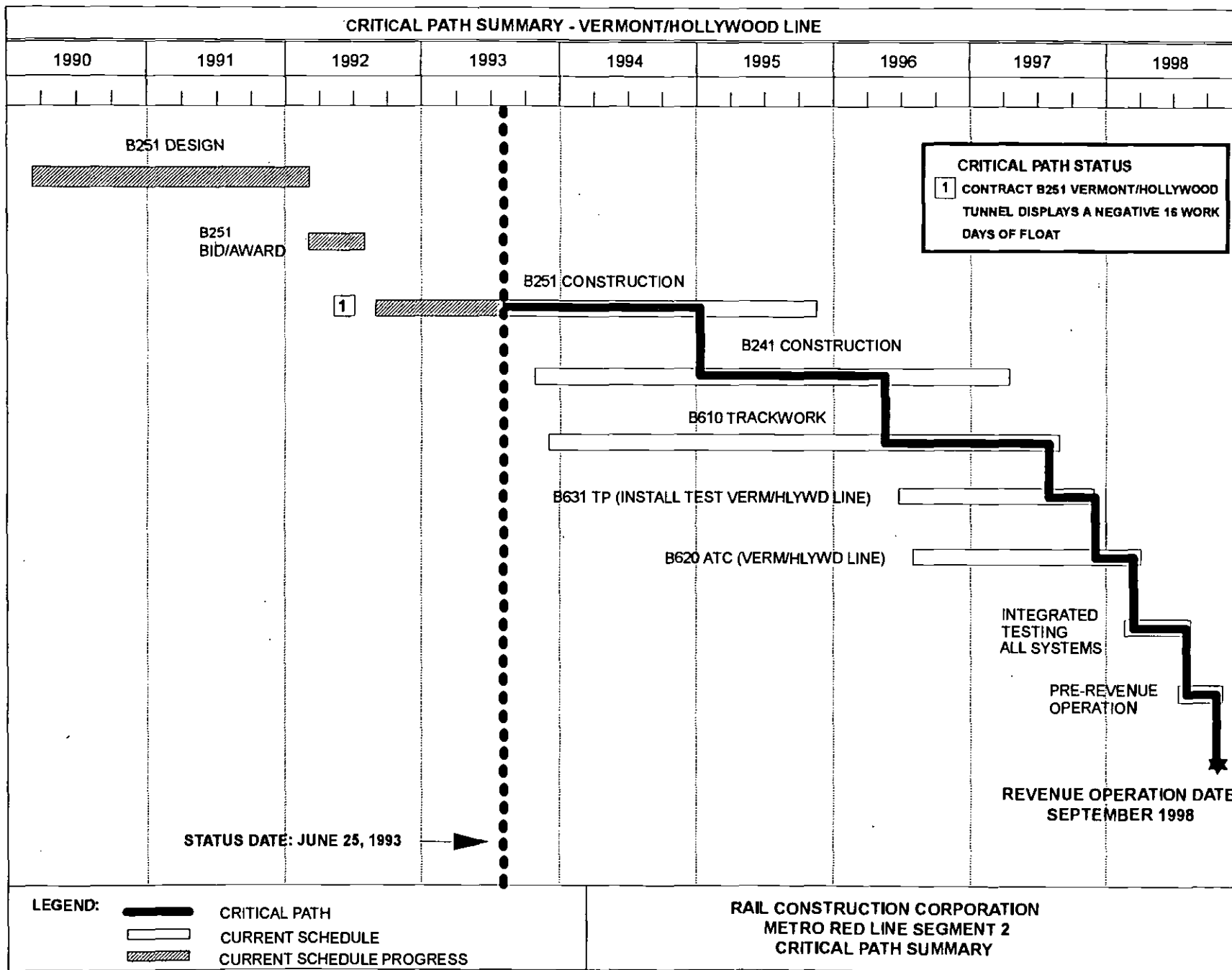
CUMULATIVE CURRENT PLAN

RAIL CONSTRUCTION CORPORATION  
METRO RED LINE SEGMENT 2  
PROGRESS SUMMARY

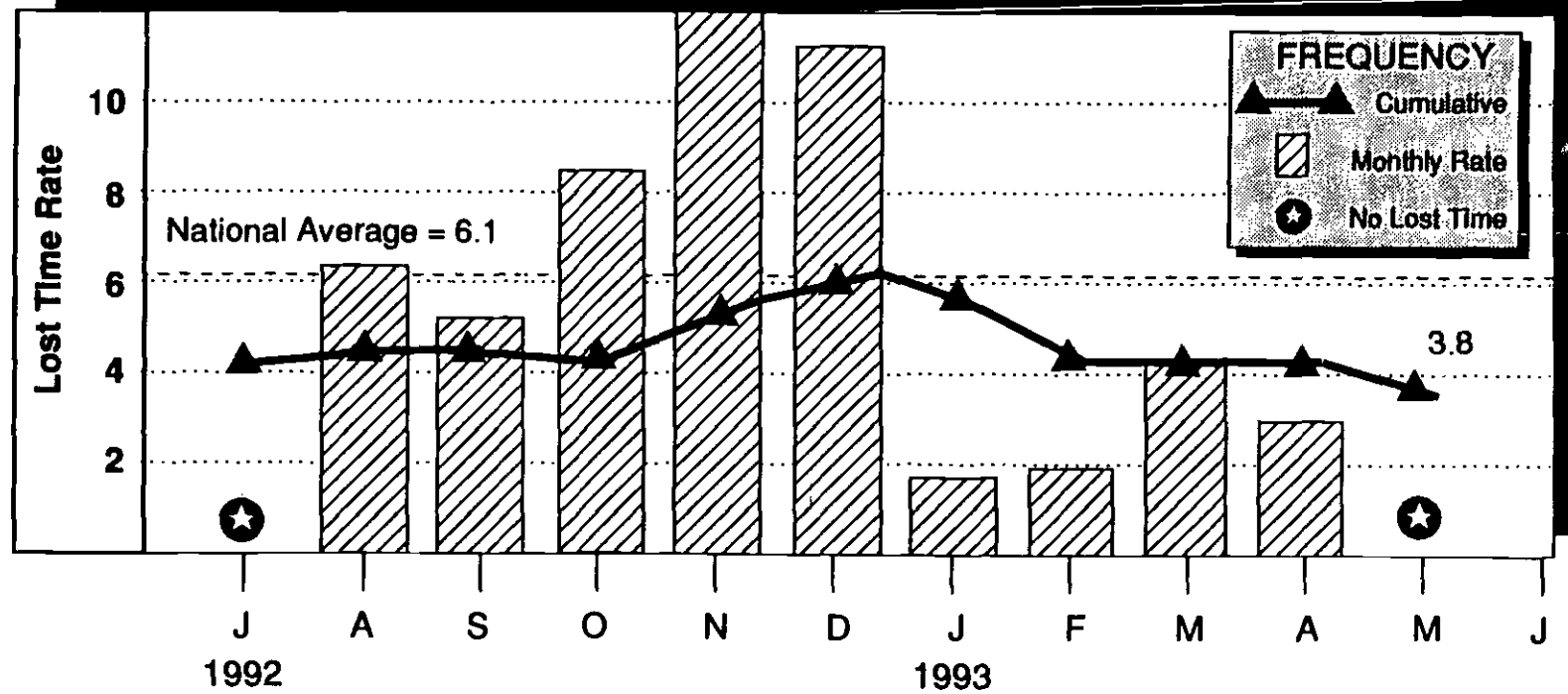
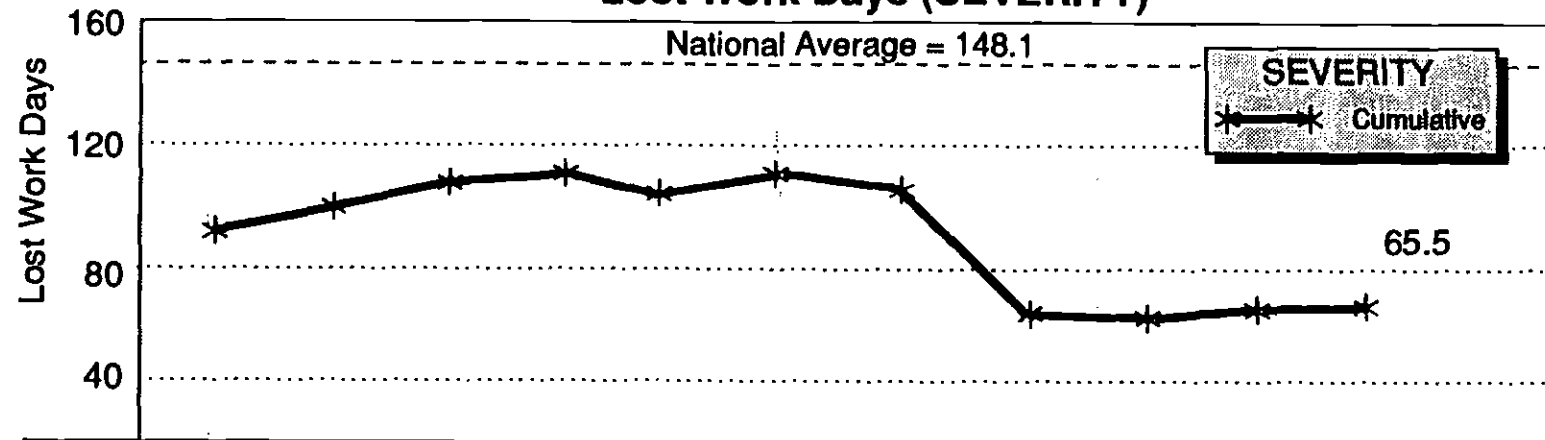








# METRO RED LINE SEGMENT 2 Summary of Lost Time Accidents (FREQUENCY) and Lost Work Days (SEVERITY)



## INVOICE PROCESSING

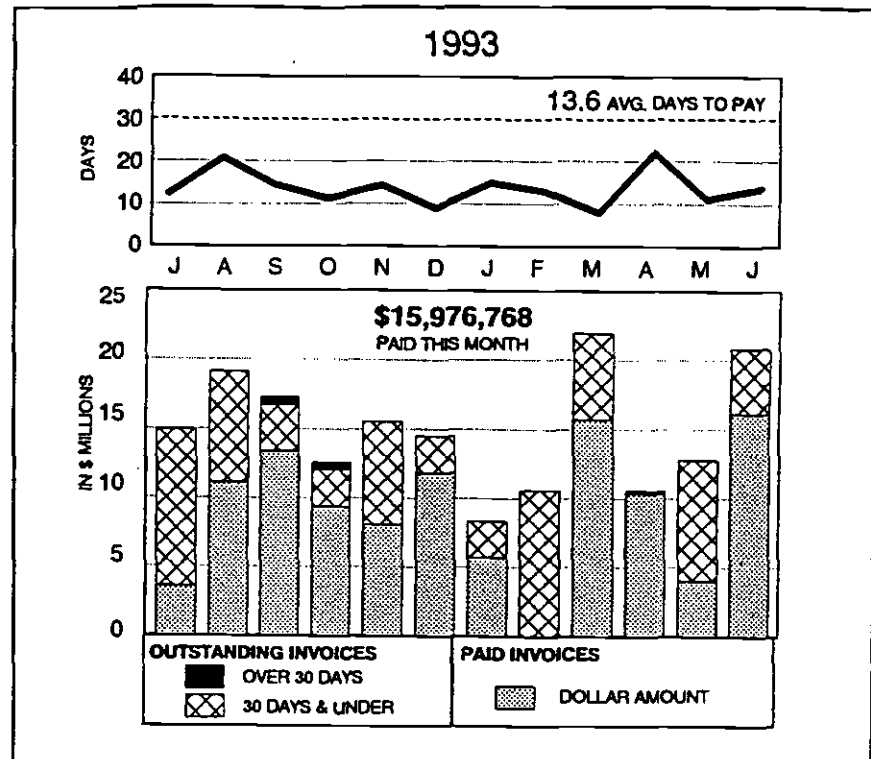
- The average time taken to pay invoices for Construction and Procurement contracts (including Insurance) was 13.6 days.

- 17 invoices were paid for a total value of \$ 15,976,768.

- There were 4 outstanding Construction or Procurement invoices under 30 days old for \$ 4,612,570.

- There were no outstanding Construction or Procurement invoices over 30 days old.

## Construction/Procurement Invoice Status



Note: The average days to pay is the time from when the Resident Engineer approves a progress payment (invoice) to when Accounting issues a check for this invoice.

## OUTSTANDING INVOICES

Month	Construction/Procurement Invoices				Other Invoices			
	30 Days and Under		Over 30 Days		30 Days and Under		Over 30 Days	
	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value	Number of Invoices	Dollar Value
JAN 1993	9	2,586,004	0	0	29	1,860,075	12	90,049
FEB 1993	6	10,478,265	0	0	26	4,004,560	12	127,514
MAR 1993	2	6,075,669	1	16,000	18	3,558,335	5	67,176
APR 1993	3	172,497	0	0	36	3,373,742	7	113,632
MAY 1993	5	8,651,451	0	0	44	8,205,542	11	304,775
JUN 1993	4	4,612,570	0	0	31	4,653,152	7	408,750

## EXECUTIVE SUMMARY

### INTRODUCTORY STATEMENT

The Los Angeles County Metropolitan Transportation Authority (LACMTA), following a merger of the Southern California Rapid Transit District (SCRTD) and the Los Angeles County Transportation Commission (LACTC) on April 1, 1993, assumed responsibility for duties previously performed by those two organizations. On May 14, 1993, a Full Funding Grant Agreement was executed between the Federal Transit Administration (FTA) and the LACMTA.

Following Segments 1 and 2, Segment 3 is comprised of three main extensions with an estimated preliminary budget of \$2.4 billion:

- **NORTH HOLLYWOOD EXTENSION** - begins just west of the Segment 2 Hollywood/Vine Station and continues west under Hollywood Boulevard to the Hollywood Highland Station. From the Hollywood/Highland Station, the alignment turns northwest to the Universal City Station and terminates at the North Hollywood station located at Lankershim and Chandler Boulevard. The anticipated Revenue Operation Date (ROD) for this extension is 2000 at an approximate cost of \$1.31 billion.
- **MID-CITY EXTENSION** - begins just west of the Wilshire/Western Station. The alignment continues under Wilshire Boulevard and curves southwest on Crenshaw Boulevard, passing through the Crenshaw/Olympic Station and terminating at the Pico/San Vicente Station. The anticipated ROD for this extension falls in 1999 for an estimated \$491 million.
- **EAST SIDE EXTENSION** - The Locally Preferred Alternative (LPA) for the East Side Extension was selected in June 1993. This alternative originates at Union Station and has a terminus at Whittier and Atlantic Boulevards in East Los Angeles. The alternative is approximately 6.5 miles long and contains seven stations. The Preliminary Engineering (PE) and Final Environmental Impact Study/Final Environmental Impact Report (FEIS/FEIR) is scheduled to begin immediately.

## EXECUTIVE SUMMARY (CON'T)

The Preliminary Engineering through the review of design alternatives, constructibility analysis, operational review and Value Engineering will refine the LPA. The FEIS/FEIR will be prepared in conjunction with this effort. At the conclusion of the Preliminary Engineering, the project schedule and budget will be developed. At the completion of this phase, the LACMTA will submit the completed documents to the FTA for consideration of a Record of Decision.

### COST STATUS

North Hollywood Extension	in \$ billion
• Current Budget	\$1.3
• Current Forecast	\$1.3
Mid-City Extension	in \$ billion
• Current Budget	\$.491
• Current Forecast	\$.491

### SCHEDULE STATUS

The critical path for the North Hollywood Extension is currently showing zero days of float. The schedule critical path is through Real Estate acquisition and demolition of Contract C0328, Universal City Demolition; Construction of C0311 Tunnels; the completion of C0321 Crossover and Trackwork Access to C0610; and Contract C0610, Trackwork. The critical path continues through Contract B620, Automatic Train Control, Contract B645, TRACS, Contract H0648, Communication Installation; and System Integration testing and Pre-revenue Operations to the Revenue Operations Date, planned for May 17, 2000.

## EXECUTIVE SUMMARY (CON'T)

The critical path for the Mid-City Extension is currently showing zero days of float. Following the acquisition of Real Estate, the critical path proceeds through Contract C0428, Pico/San Vicente Demolition, and Contract C0401, Olympic/Crenshaw Station. The critical path continues through Contract C0610, Trackwork Installation, Contract B620, Automatic Train Control, Contract H0648, Communications Installation, Contract B645, TRACS, Integrated Testing and Pre-revenue Operations to the Revenue Operations Date of July 1999.

## REAL ESTATE

## North Hollywood Extension

	NUMBER OF PARCELS	NUMBER OF PARCELS AVAILABLE	PARCELS NOT AVAILABLE (ON SCHEDULE)	PARCELS NOT AVAILABLE (BEHIND SCHEDULE)	
				NUMBER	AVG. DAYS BEHIND
THIS MONTH	184	2	173	10*	70
LAST MONTH	184	2	173	10*	70

\*8 PARCELS ARE ON THE CRITICAL PATH

## Mid-City Extension

	NUMBER OF PARCELS	NUMBER OF PARCELS AVAILABLE	PARCELS NOT AVAILABLE (ON SCHEDULE)	PARCELS NOT AVAILABLE (BEHIND SCHEDULE)	
				NUMBER	AVG. DAYS BEHIND
THIS MONTH	61	0	55	6*	150
LAST MONTH	61	0	55	6*	150

\*ALL PARCELS ARE ON THE CRITICAL PATH

## PUBLIC AFFAIRS

- A North Hollywood Citizen Advisory Committee was established to represent the concerns of the Universal City/North Hollywood community during all phases of construction. Staff members responded to two media inquiries regarding future construction activities in North Hollywood and opened a Public Affairs Segment 3 field office in Universal City on June 17, 1993.

## EXECUTIVE SUMMARY (CON'T)

Members of the local press and media covered the Mid-City Extension Open House held on June 24, 1993, and the Public Affairs staff attended four public hearings regarding rail transit options for the East Side Extension.

### AREAS OF CONCERN

#### NEW

##### Delay in Real Estate Acquisition

**Concern** There are fifteen critical path parcels that affect Contract C0428, Pico/San Vicente Demolition, Contract C0411, Line Section, Pico/San Vicente to Wilshire/Western, Contract C0311, Tunnel Section Universal City to Station 630+00 and Pocket Track, and Contract C0328, Universal City Demolition. These parcels are behind the target acquisition schedule required to support these contracts.

**Action:** Expedite acquisition schedule to avoid negative float.

**Status:** The items are currently under review by MTA's Real Estate Department.

##### Delay in Geotechnical Sub-contract for C0411

**Concern:** Geotechnical contract for C0411 has been awarded, but confirmation of subcontractor has yet to be approved.

**Action:** Expedite the award of the geotechnical contract subcontractor.

**Status:** RCC staff are working to expedite this item.

#### ONGOING

##### Appointment of Section Designers

**Concern:** Delay in the approval of Section Designers for both North Hollywood and Mid-City and, consequently, delayed issuance of the Notice to Proceed for the design of two station contracts, will result in slippage of the camera ready submittal dates and will impact the contracting cycle.



### AREAS OF CONCERN (CON')

- Action: Expedite the approval and contracting process, and compress the schedule to whatever reasonable extent is possible.
- Status: Recommendations were placed on the agenda for the next LACMTA Board meeting.

## FTA PROJECT MANAGEMENT OVERSIGHT CONSULTANT ITEMS FOR RCC ACTION

The following items reflect action requirements identified in the May monthly Project Report submitted to FTA by their Project Management Oversight Consultant, Hill International.

ONGOING        NONE

NEW            NONE

RESOLVED      NONE

**North Hollywood Extension****KEY ACTIVITIES - JUNE**Design/Construction

- B251, Tunnel from Segment 2 to Station 630+00 in Segment 3, design activity in connection with the preparation of Change Notice #1 (including modifications due to a change of alignment in Segment 3) commenced in February and camera ready was completed on May 21, 1993.
- Completed the Funding Source splits, B251/C0301.
- Completed all the studies for "Special Trackwork" and "Additional Construction Access for C0331."

**KEY ACTIVITIES - PLANNED FOR JULY**Design/Construction

- C0301, Hollywood Highland Station, the Architectural presentation to MTA is scheduled for July 7, 1993.
- C0303, Demolition & Utility Rearrangement for Hollywood/Highland Station, final design and camera ready are scheduled for July 9, 1993, and August 2, 1993, respectively.
- C0311 Tunnel Section Universal City to Station 630+00, pre-final design submittal is scheduled for July 19, 1993.
- C0328 Universal City Demolition, camera ready is scheduled for July 14, 1993.

**Mid-City Extension****KEY ACTIVITIES - JUNE**

- C0401, Crenshaw/Olympic Station, preliminary design was completed on June 1, 1993. The camera ready schedule has been improved by 10 days (from September 30, 1994, to September 20, 1994).
- C0421, Pico/San Vicente Station, preliminary design was completed and submitted to MTA on May 3, 1993. The camera ready date was improved by one week (from July 15, 1994, to July 8, 1994).
- C0428/C0408, Pico/San Vicente and Crenshaw/Olympic Demolition, EMC is advancing and combining these two demolition contracts (MTA direction).

**KEY ACTIVITIES - PLANNED FOR JULY**

- \*C0403, Crenshaw/Olympic Utility, this package was planned to be designed by section designer, due to repackaging, EMC is planning to advance the design by using the in-house staff (MTA direction).
- \*C0411, Tunnel from Wilshire/Western to Pico/San Vicente, EMC is advancing the design of bus facility and will incorporate it into the C0411 tunnel contract (MTA direction).

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\* Limited Notice to Proceed to section designers for two C/O & P/S stations were delayed by one month (May 28, 1993, to June 30, 1993)

RAIL CONSTRUCTION CORPORATION  
PROJECT COST REPORT  
COST BY ELEMENT

Project: RB2 METRO RED LINE - SEGMENT 3

Status Date: Jun 25, 1993  
Run Date: Jul 22, 1993  
Units: \$ in Thousands (Truncated)

ELEMENT / DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET	COMMITMENTS	INCURRED	EXPENDITURES	CURRENT FORECAST	FORECAST VARIANCE
T CONSTRUCTION	890,729	890,729	48,555	6,290	6,290	837,452	-53,276
S PROFESSIONAL SERVICES	254,747	254,747	27,530	8,604	8,604	254,747	0
R REAL ESTATE	84,534	84,534	10,161	193	193	84,534	0
F UTILITY/AGENCY FORCE ACCOUNTS	13,237	13,237	105	20	20	13,237	0
C PROJECT RESERVE	67,575	67,575	0	0	0	120,851	53,276
GRAND TOTAL - RB2 METRO RED LINE - SEGMENT 3	1,310,822	1,310,822	86,352	15,109	15,109	1,310,822	0

**RAIL CONSTRUCTION CORPORATION  
PROJECT COST REPORT  
COST BY ELEMENT**

Project: R83 RED LINE SEG 3 - MID CITIES

Status Date: Jun 25, 1993  
Run Date: Jul 22, 1993  
Units: \$ in Thousands (Truncated)

ELEMENT / DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET	COMMITMENTS	INCURRED	EXPENDITURES	CURRENT FORECAST	FORECAST VARIANCE
T CONSTRUCTION	334,139	334,139	8,896	25	25	334,139	0
S PROFESSIONAL SERVICES	98,133	98,133	11,340	0	0	98,133	0
R REAL ESTATE	53,303	53,303	0	0	0	53,303	0
F UTILITY/AGENCY FORCE ACCOUNTS	5,088	5,088	0	0	0	5,088	0
C PROJECT RESERVE	0	0	0	0	0	0	0
GRAND TOTAL - R83 RED LINE SEG 3 - MID CITIES	490,663	490,663	20,236	25	25	490,663	0

RAIL CONSTRUCTION CORPORATION  
METRO RAIL RED LINE NTH HOLLYWOOD PROJECT  
(IN THOUSANDS OF DOLLARS)

JUNE 93

## STATUS OF FUNDS BY SOURCE

SOURCE	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS		EXPENDITURES		BILLED TO SOURCE	
			\$	%	\$	%	\$	%
FTA-SECTION 3	\$681,037	\$20,000	\$86,352	13%	\$15,109	2%	\$15,109	2%
FED SURFACE TRANSIT PROG	\$25,000	\$21,300		0%		0%		0%
SB 1995 TRUST FUND	\$53,000	\$53,000		0%		0%		0%
STATE ARTICLE XIX	\$20,000			0%		0%		0%
STATE PROP 108	\$95,000			0%		0%		0%
STATE TCI	\$75,000			0%		0%		0%
PROP C	\$344,685			0%		0%		0%
BENEFIT ASSESS. DISTRICT	\$17,100			0%		0%		0%
TOTAL	\$1,310,822	\$94,300	\$86,352	7%	\$15,109	1%	\$15,109	1%

RAIL CONSTRUCTION CORPORATION  
METRO RAIL RED LINE MID CITY PROJECT  
(IN THOUSANDS OF DOLLARS)

JUNE 93

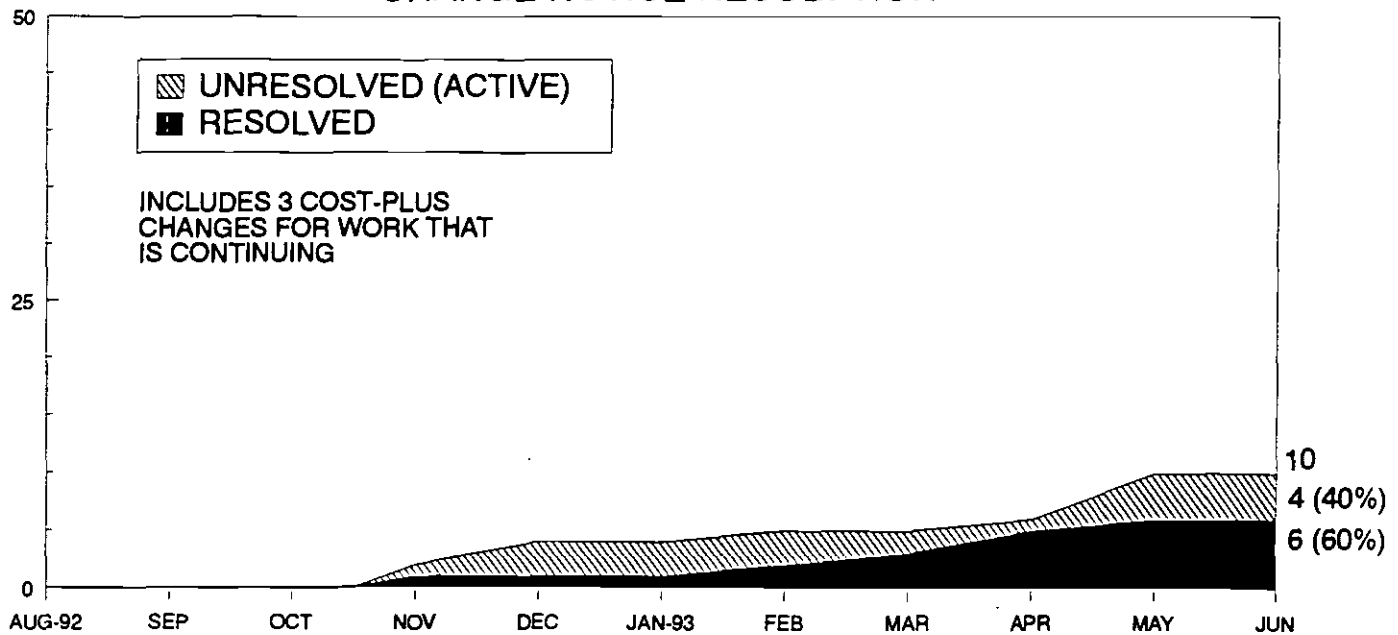
## STATUS OF FUNDS BY SOURCE

SOURCE	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS		EXPENDITURES		BILLED TO SOURCE	
			\$	%	\$	%	\$	%
FTA-SECTION 3	\$242,563	\$20,000	\$20,236	8%	\$25	0%	\$25	0%
FED SURFACE TRANSIT PROG	\$55,400			0%		0%		0%
STATE ARTICLE 116	\$72,300			0%		0%		0%
FLEXIBLE CONGESTION RELIEF	\$26,000			0%		0%		0%
PROP C	\$94,400			0%		0%		0%
TOTAL	\$490,663	\$20,000	\$20,236	4%	\$25	0%	\$25	0%



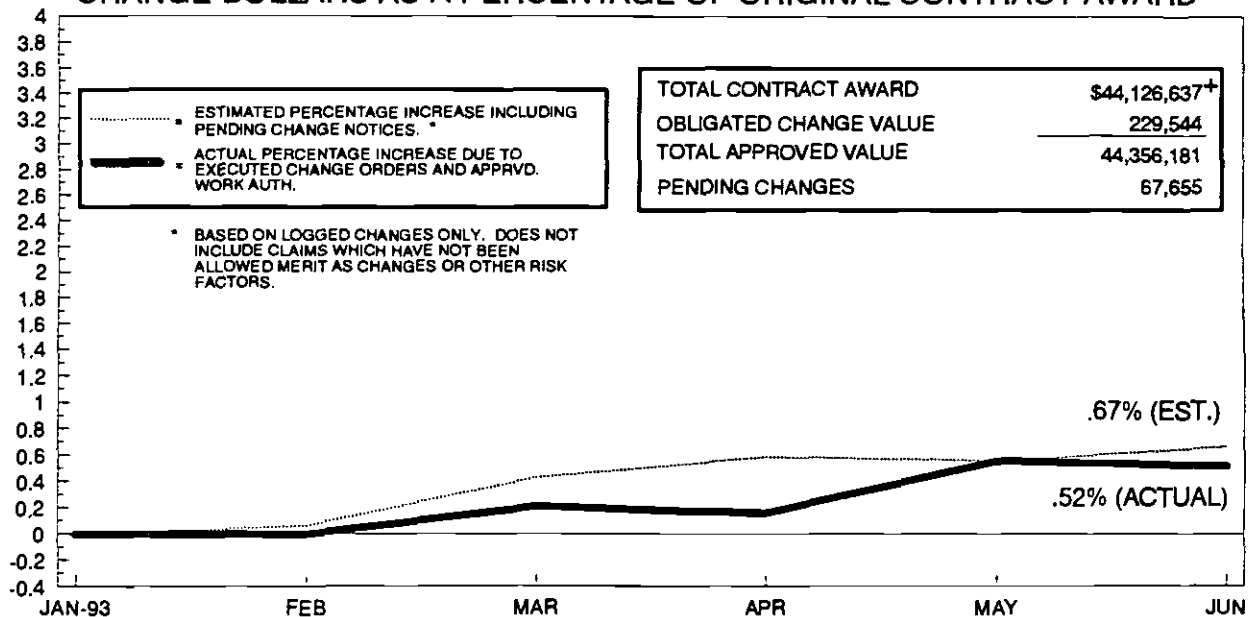
# NORTH HOLLYWOOD

## CONSTRUCTION/PROCUREMENT CONTRACT CHANGES CHANGE NOTICE RESOLUTION



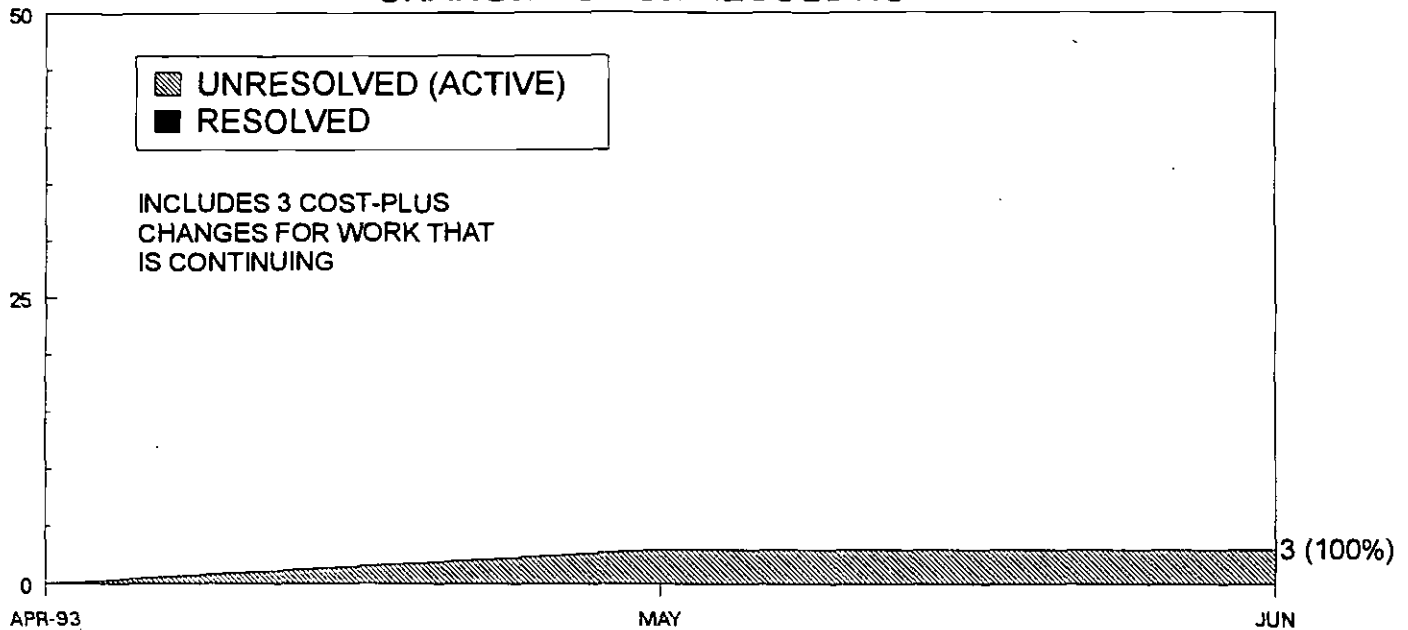
AGE OF UNRESOLVED CHANGES					
TIME	0-30 DAYS	31-60	61-90	OVER 90	TOTAL ACTIVE
VOLUME	1	3	0	0	4
PERCENT	25%	75%	0%	0%	100%

## CONSTRUCTION/PROCUREMENT CONTRACT CHANGES CHANGE DOLLARS AS A PERCENTAGE OF ORIGINAL CONTRACT AWARD

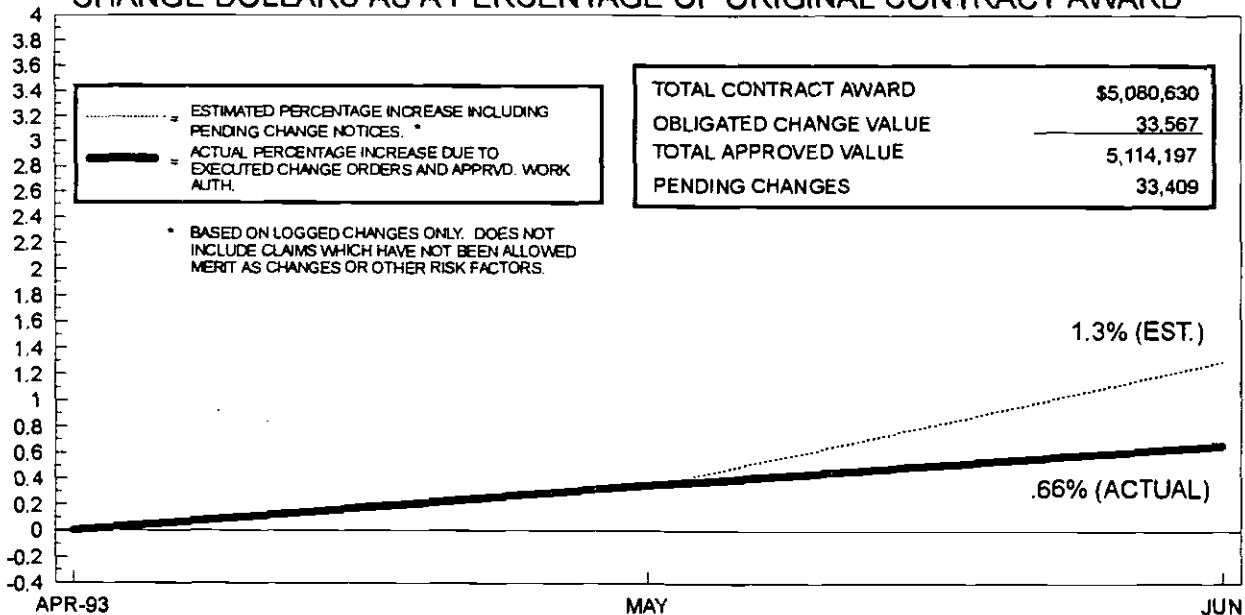


+THESE FIGURES ARE BASED UPON CONTRACTS B251, B630, B740 AND B745

## MID-CITIES

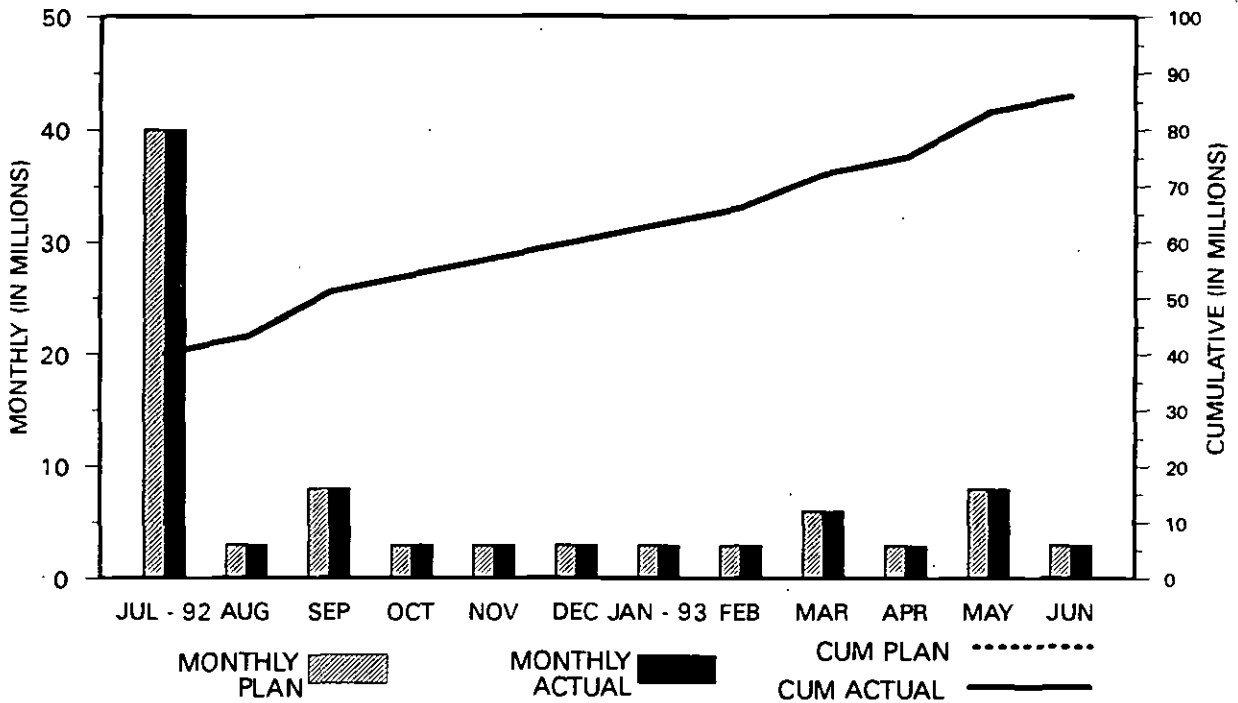
CONSTRUCTION/PROCUREMENT CONTRACT CHANGES  
CHANGE NOTICE RESOLUTION

AGE OF UNRESOLVED CHANGES					
TIME	0-30 DAYS	31-60	61-90	OVER 90	TOTAL ACTIVE
VOLUME	0	3	0	0	3
PERCENT	0%	100%	0%	0%	100%

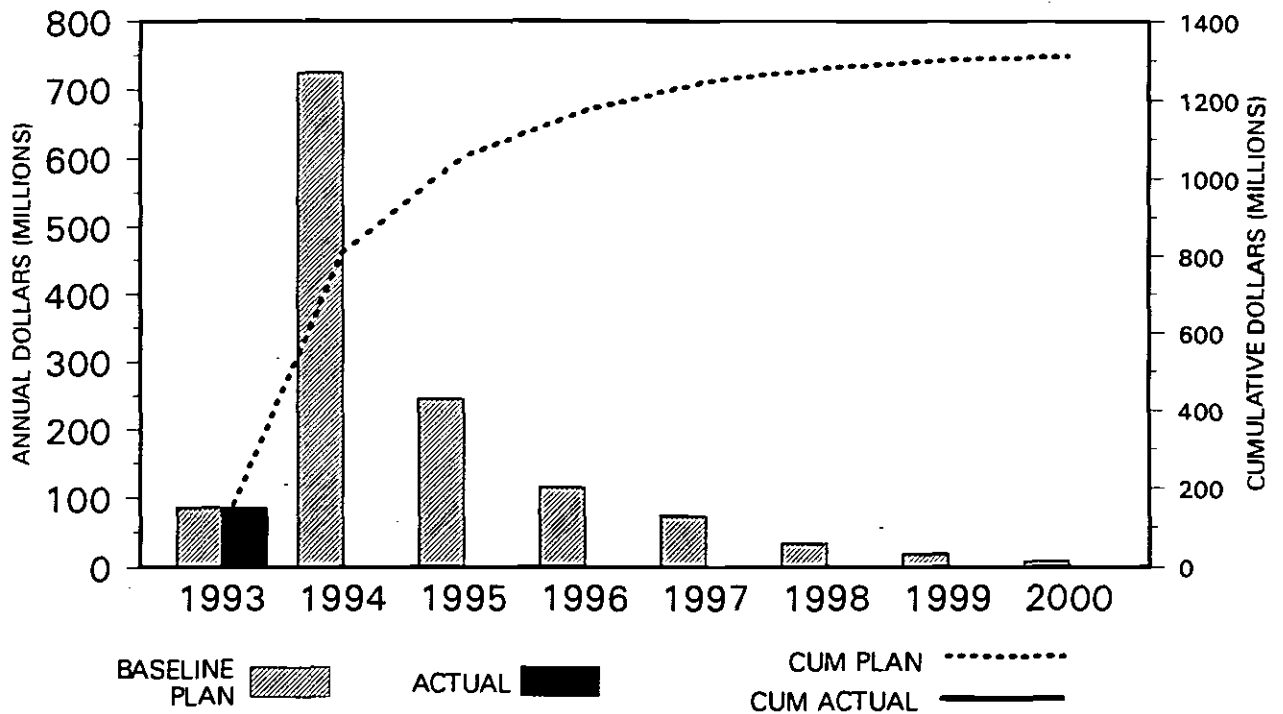
CONSTRUCTION/PROCUREMENT CONTRACT CHANGES  
CHANGE DOLLARS AS A PERCENTAGE OF ORIGINAL CONTRACT AWARD

# NORTH HOLLYWOOD

## PROJECT COMMITMENT - ANNUAL FISCAL YEAR - 1993

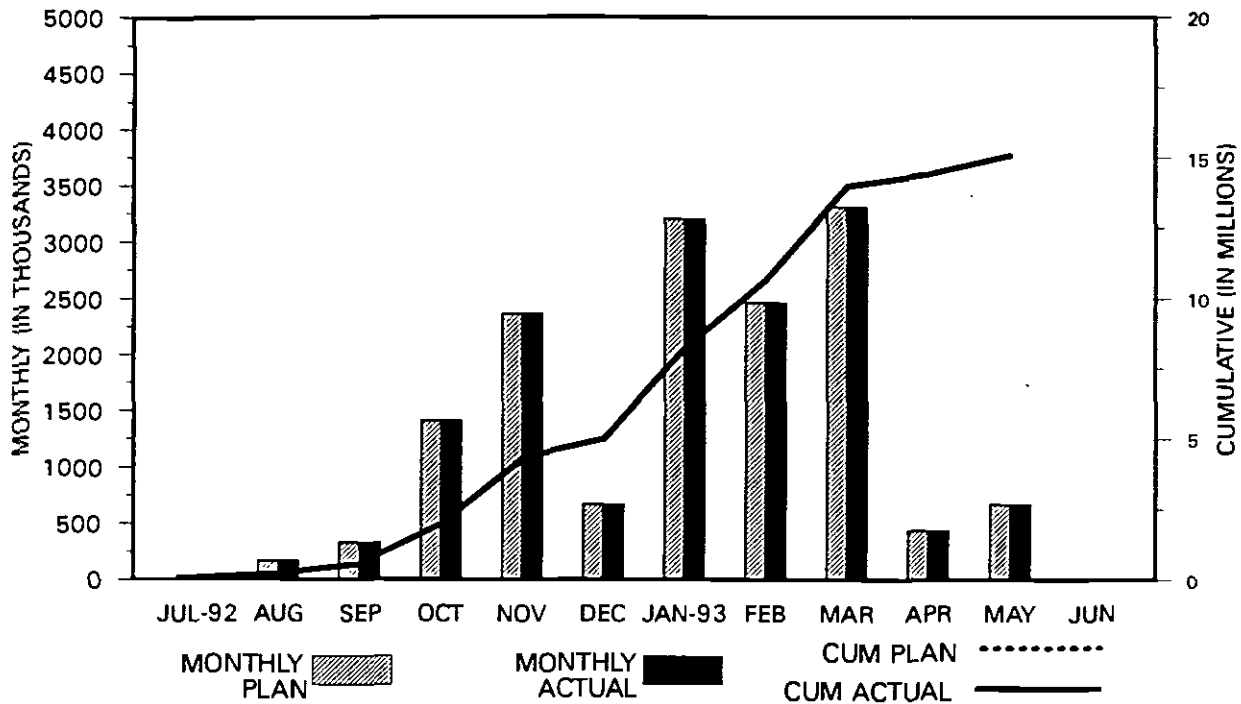


## PROJECT COMMITMENT - PROJECT FISCAL YEAR

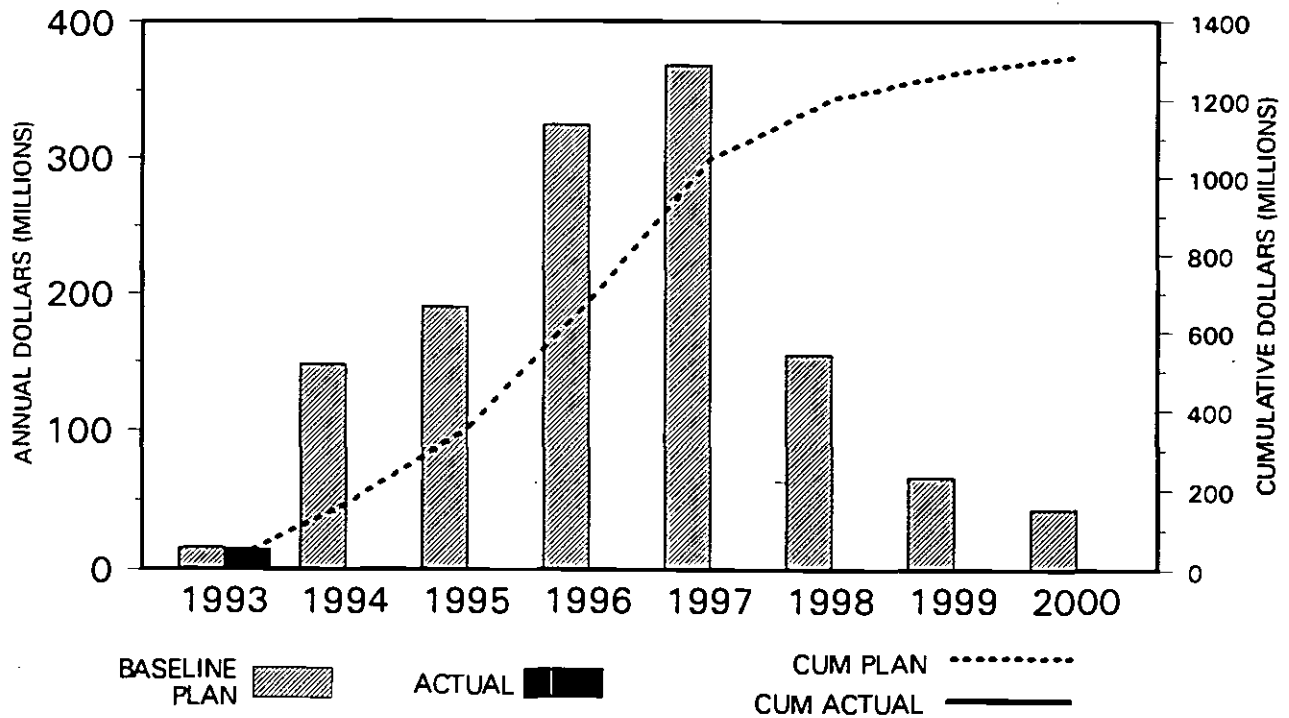


# NORTH HOLLYWOOD

## PROJECT CASH FLOW - ANNUAL FISCAL YEAR - 1993

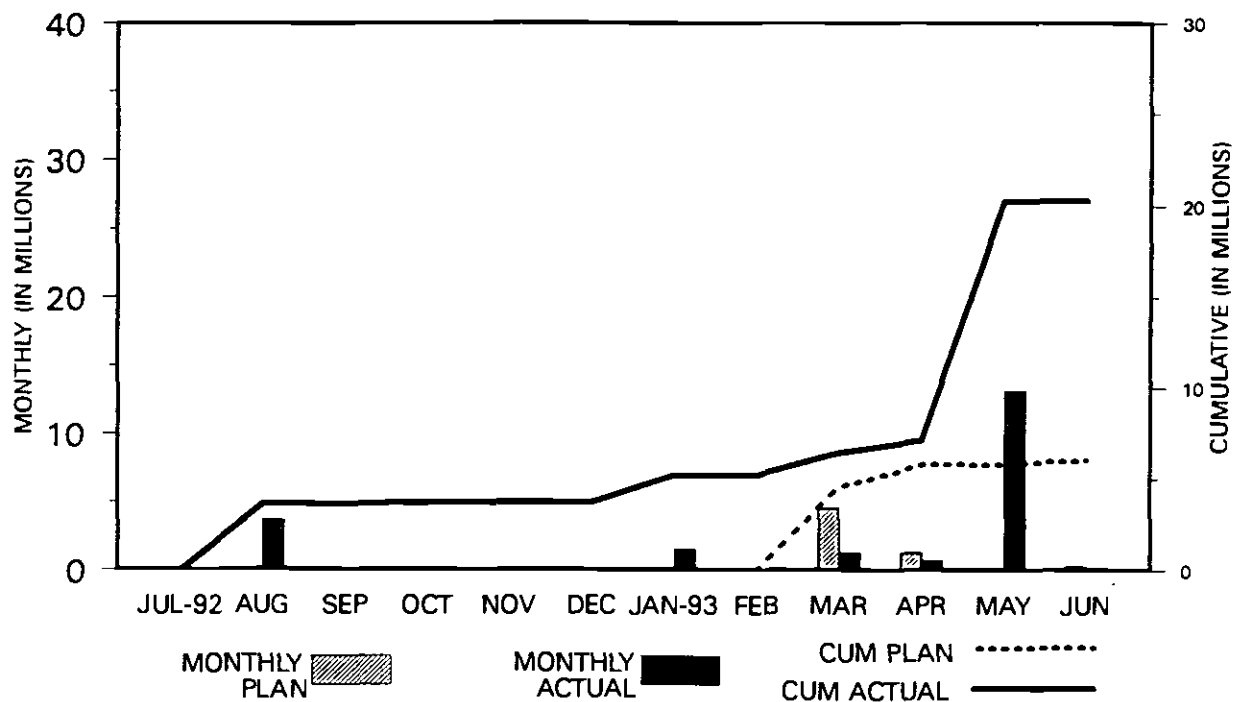


## PROJECT CASH FLOW - PROJECT FISCAL YEAR

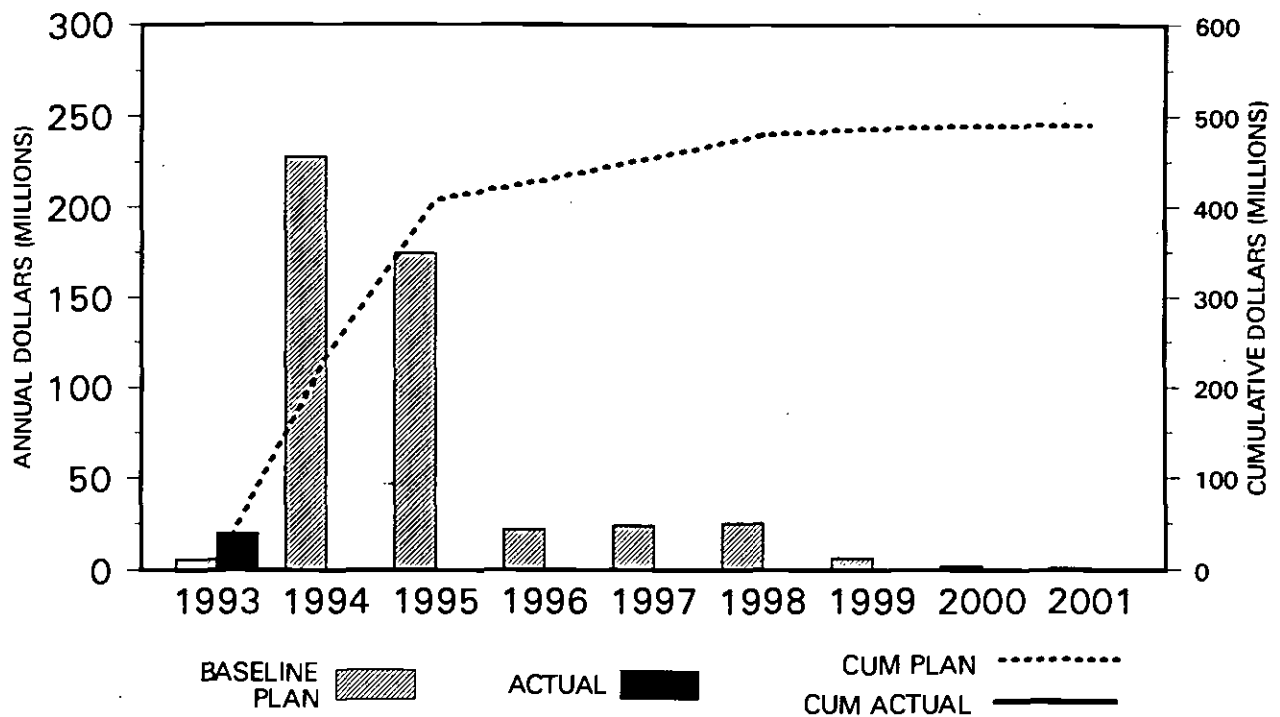


# MID CITY EXTENSION

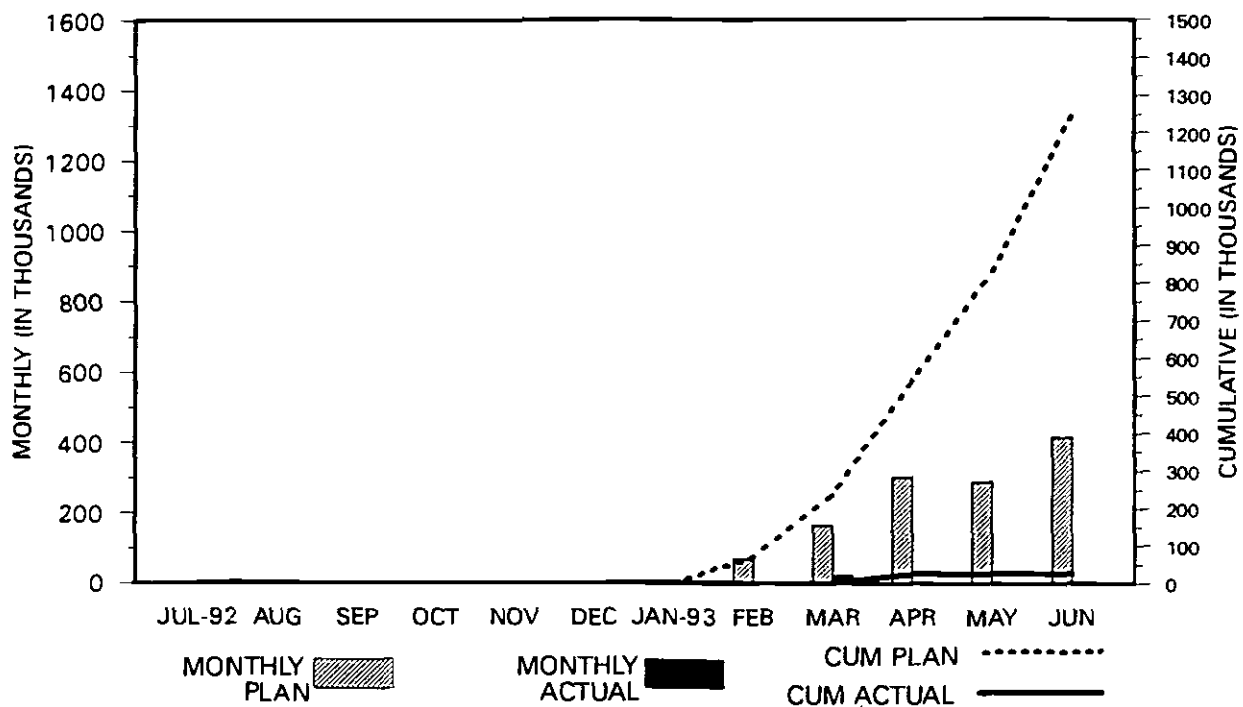
## PROJECT COMMITMENTS - ANNUAL FISCAL YEAR - 1993



## PROJECT COMMITMENTS - PROJECT FISCAL YEAR



## MID CITY EXTENSION

PROJECT CASH FLOW - ANNUAL  
FISCAL YEAR - 1993PROJECT CASH FLOW - PROJECT  
FISCAL YEAR