




January 4, 1996

TO: MTA BOARD OF DIRECTORS  
FROM: STANLEY G. PHERNAMBUCO   
SUBJECT: PROFESSIONAL SERVICES CHANGE BASIS, CONTRACT VALUE STATUS, AND NEW CHANGES OVER \$200,000

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### ISSUE

The Construction Division has provided a monthly Forecast of Unexecuted Professional Services Contract Changes over \$200,000 report since November 1992. This monthly Board Box report has been expanded to include the Basis Detail for Amended Changes and Professional Services Contract Value Summary reports. For the period ending January 4, 1996, two new consultant changes that may exceed \$200,000 are reported.

### BACKGROUND

Several board members have asked for specific information in addition to the change forecast report to monitor the performance of contractors and consultants. The Cost Containment, Contracts, and Efficiency Committee on October 12, 1995 accepted a staff recommendation to provide all board members with the following status reports as a monthly Board Box Item:

#### Basis Detail for Amended Changes

This report is designed to monitor system-wide performance as to the reasons changes are occurring. The categories are Outside Agency/ Operations Requests, Design/Construction Schedule Changes, Design/Construction Contract Changes, Abnormal Activity Changes, Special Studies/Assignments, and Work Scope Changes.

#### Professional Services Contract Value Summary

This report provides visibility as to the current contract status in relationship to the board approved Authorization for Expenditure (AFE). The report displays the status of each Contract Work Order (CWO) by project and consultant.

#### Forecast of Unexecuted Professional Services Contract Changes

This report provides the board the earliest possible preview of new consultant changes that may exceed \$200,000 on each project.

LACMTA  
METRO RAIL PROGRAM  
PROFESSIONAL SERVICES CONTRACT CHANGES  
**BASIS DETAIL FOR AMENDED CHANGES**  
EMC & CONSTRUCTION MANAGER CHANGES  
AMENDED AS OF 01/02/96

	# CCR'S	% Total Volume	Change Cost	% Total Change Cost
<b>OUTSIDE AGENCY/OPERATIONS REQUESTS</b>				
OPERATIONS SUPPORT	3	1.00%	\$195,778.25	0.44%
OUTSIDE AGENCY REQUIREMENTS CHANGE	30	10.00%	\$5,130,692.00	11.49%
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	<b>33</b>	<b>11.00%</b>	<b>\$5,326,470.25</b>	<b>11.93%</b>
<b>DESIGN/CONSTRUCTION SCHEDULE CHANGES</b>				
SCHEDULE ACCELERATION	8	2.67%	\$504,522.38	1.13%
SCHEDULE EXTENSION	3	1.00%	\$204,716.08	0.46%
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	<b>11</b>	<b>3.67%</b>	<b>\$709,238.46</b>	<b>1.59%</b>
<b>DESIGN/CONSTRUCTION CONTRACT CHANGES</b>				
CCR CAUSED BY DESIGN/CONSTRUCTION CHANGES	7	2.33%	\$100,731.03	0.23%
ADDED FACILITIES SUPPORT DUE TO CHANGE NOTICE	5	1.67%	\$339,120.00	0.76%
ADDED FACILITIES SUPPORT DUE TO DESIGN CHANGE NOTICE	13	4.33%	\$2,216,449.99	4.96%
ADDED FACILITIES SUPPORT DUE TO DESIGN DEVELOPMENT CHANGES	69	23.00%	\$16,915,409.00	37.87%
ADDED SYSTEMS SUPPORT DUE DESIGN CHANGE NOTICE	2	0.67%	\$71,189.00	0.16%
ADDED SYSTEMS SUPPORT DUE DEVELOPMENT DESIGN CHANGES	5	1.67%	\$790,589.00	1.77%
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	<b>101</b>	<b>33.67%</b>	<b>\$20,433,488.02</b>	<b>45.75%</b>
<b>ABNORMAL ACTIVITY (CLAIMS, DISRUPTION, ETC.)</b>				
CLAIMS/DISPUTES/LITIGATION SUPPORT	2	0.67%	\$483,554.02	1.08%
REPAIR OF DAMAGE TO FACILITIES/EQUIPMENT	1	0.33%	\$3,476.25	0.01%
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	<b>3</b>	<b>1.00%</b>	<b>\$487,030.27</b>	<b>1.09%</b>
<b>SPECIAL STUDIES/ASSIGNMENTS</b>				
OUTSIDE CONSULTANT SPECIALIST WORK (UNUSUAL SERVICES)	27	9.00%	\$1,746,788.86	3.91%
PREPARE BID/CONTRACT DOCUMENTS	10	3.33%	\$692,332.52	1.55%
SPECIAL STUDIES	39	13.00%	\$1,310,725.71	2.93%
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	<b>76</b>	<b>25.33%</b>	<b>\$3,749,847.09</b>	<b>8.40%</b>
<b>WORK SCOPE</b>				
ADDITIONAL CAPITAL EQUIPMENT/FACILITIES REQUIRED	6	2.00%	\$2,314,339.60	5.18%
EXTRA/ADDITIONAL WORK REQUESTED BY LACMTA	70	23.33%	\$11,645,330.48	26.07%
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	<b>76</b>	<b>25.33%</b>	<b>\$13,959,670.08</b>	<b>31.25%</b>
<b>PROGRAM TOTALS: [1]</b>				
	<b>300</b>	<b>100.00%</b>	<b>\$44,665,744.17</b>	<b>100.00%</b>

NOTE: Lists amended consultant changes for Pasadena Blue Line, and Metro Red Line Segment 2, Segment 3 North Hollywood, Segment 3 Eastside Projects

[1] Does not include planned additional scope changes (changes that do not modify the intended design or construction baseline)

**METRO SYSTEM  
PROFESSIONAL SERVICES CONTRACT VALUE SUMMARY**

EMC & Construction Manager changes recorded since April '91

**R05 - Pasadena Blue Line**

AS OF DATE: 01/02/96

AWARD		APPROVED				OBLIGATED		PENDING		PROJECTED	
CWO #	BASE CWO EST	AFE	AMENDMENTS \$	CURRENT CWO ESTIMATE	WORK AUTHORIZATIONS	TOTAL AUTH. COST	REMAINING AFE	PENDING CHANGES #	\$	TOTAL CWO + CHANGES	PROJECTED REMAINING AFE
A.	B.(1)	C.	D.	E.	F.	G.	H.	I.	J.	K.	
<b>03369 - CONSTRUCTION MANAGEMENT CONSULTANT (CM) \ PARSONS-DILLINGHAM</b>											
R05 000	\$0		\$246,860	\$246,860	\$92,036	\$338,896			\$0	\$338,896	
<b>I R05</b>	<b>\$0</b>	<b>\$338,896</b>	<b>\$246,860</b>	<b>\$246,860</b>	<b>\$92,036</b>	<b>\$338,896</b>	<b>\$0</b>		<b>\$0</b>	<b>\$338,896</b>	<b>\$0</b>
<b>E0070 - ENGINEERING MANAGEMENT CONSULTANT \ PARSONS-BRINCKERHOFF/DMJM</b>											
R05 001	\$10,833,530		\$278,833	\$11,112,363	\$0	\$11,112,363			\$0	\$11,112,363	
R05 021	\$46,530,200		\$6,570,579	\$53,100,779	\$2,162,932	\$55,263,711		\$6,031,489		\$61,295,200	
R05 025	\$1,621,168		\$0	\$1,621,168	\$477,211	\$2,098,379		\$693,172		\$2,791,551	
R05 034	\$50,000		\$0	\$50,000	\$54,000	\$104,000		\$0		\$104,000	
<b>R05</b>	<b>\$59,034,898</b>	<b>\$70,006,837</b>	<b>\$6,849,412</b>	<b>\$65,884,310</b>	<b>\$2,694,143</b>	<b>\$68,578,453</b>	<b>\$1,428,384</b>		<b>\$6,724,661</b>	<b>\$75,303,114</b>	<b>(\$5,296,277)</b>
<b>MC013 - CONSTRUCTION MANAGEMENT CONSULTANT \ MANAGERS OF TRANSIT CONSTRUCTION (MTC)</b>											
R05 001	\$14,955,818		\$20,869	\$14,976,687	\$90,000	\$15,066,687			\$0	\$15,066,687	
R05 003	\$74,948		\$0	\$74,948	\$0	\$74,948			\$0	\$74,948	
<b>R05</b>	<b>\$15,030,766</b>	<b>\$16,816,446</b>	<b>\$20,869</b>	<b>\$15,051,635</b>	<b>\$90,000</b>	<b>\$15,141,635</b>	<b>\$1,674,811</b>		<b>\$0</b>	<b>\$15,141,635</b>	<b>\$1,674,811</b>
<b>R05</b>	<b>\$74,065,664</b>	<b>\$87,162,179</b>	<b>\$7,117,141</b>	<b>\$81,182,805</b>	<b>\$2,876,179</b>	<b>\$84,058,984</b>	<b>\$3,103,195</b>		<b>\$6,724,661</b>	<b>\$90,783,645</b>	<b>(\$3,621,466)</b>

NOTES:  
 I NTE allowance has been exceeded.  
 [1] Includes planned scope additions incorporated via amendments  
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 VALUE SUMMARY  
 01/02/96 10:45:40

**METRO SYSTEM  
PROFESSIONAL SERVICES CONTRACT VALUE SUMMARY**

EMC & Construction Manager changes recorded since April '91

**R81 - Metro Red Line Seg-2**  
AS OF DATE: 01/02/96

AWARD		APPROVED				OBLIGATED		PENDING		PROJECTED	
CWO #	BASE CWO EST	AFE	AMENDMENTS \$	CURRENT CWO ESTIMATE	WORK AUTHORIZATIONS	TOTAL AUTH. COST	REMAINING AFE	PENDING CHANGES #	\$	TOTAL CWO + CHANGES	PROJECTED REMAINING AFE
A.	B.(1)	C.	D.	E.	F.	G.	H.	I.	J.	K.	
<b>03369 - CONSTRUCTION MANAGEMENT CONSULTANT (CM) \ PARSONS-DILLINGHAM</b>											
R81 000	\$131,085,157		\$9,891,310	\$140,976,466	\$5,054,185	\$146,030,651			\$9,293,717	\$155,324,368	
I R81	\$131,085,157	\$145,945,077	\$9,891,310	\$140,976,466	\$5,054,185	\$146,030,651	(\$85,574)		\$9,293,717	\$155,324,368	(\$9,379,291)
<b>E0070 - ENGINEERING MANAGEMENT CONSULTANT (EMC) \ PARSONS-BRINCKERHOFF/DMJM</b>											
R81 003	\$56,709,556		\$23,694,439	\$80,403,995	\$845,400	\$81,249,395			\$3,259,891	\$84,509,286	
R81	\$56,709,556	\$81,846,395	\$23,694,439	\$80,403,995	\$845,400	\$81,249,395	\$597,000		\$3,259,891	\$84,509,286	(\$2,662,891)
<b>MC013 - CONSTRUCTION MANAGEMENT CONSULTANT \ MANAGERS OF TRANSIT CONSTRUCTION (MTC)</b>											
R81 002	\$0		\$199,618	\$199,618	\$0	\$199,618			\$0	\$199,618	
R81	\$0	\$199,618	\$199,618	\$199,618	\$0	\$199,618	\$0		\$0	\$199,618	\$0
<b>R81</b>	<b>\$187,794,713</b>	<b>\$227,991,090</b>	<b>\$33,785,367</b>	<b>\$221,580,079</b>	<b>\$5,899,585</b>	<b>\$227,479,664</b>	<b>\$511,426</b>		<b>\$12,553,608</b>	<b>\$240,033,272</b>	<b>(\$12,042,182)</b>

NOTES:

I NTE allowance has been exceeded.  
 [1] Includes planned scope additions incorporated via amendments  
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VALUE SUMMARY  
 01/02/96 10:46:02

**METRO SYSTEM  
PROFESSIONAL SERVICES CONTRACT VALUE SUMMARY**

EMC & Construction Manager changes recorded since April '91

**R82 - Metro Red Line Seg-3 N. Hlwd.**

AS OF DATE: 01/02/96

AWARD		APPROVED				OBLIGATED		PENDING		PROJECTED	
CWO #	BASE CWO EST	AFE	AMENDMENTS \$	CURRENT CWO ESTIMATE	WORK AUTHORIZATIONS	TOTAL AUTH. COST	REMAINING AFE	PENDING CHANGES #	\$	TOTAL CWO + CHANGES	PROJECTED REMAINING AFE
A.	B.(1)	C.	D.	E.	F.	G.	H.	I.	J.	K.	
<b>03369 - CONSTRUCTION MANAGEMENT CONSULTANT (CM) \ PARSONS-DILLINGHAM</b>											
R82 000	\$18,000,000		\$127,553	\$18,127,553	\$122,714	\$18,250,267			\$31,780,587	\$50,030,854	
I R82	\$18,000,000	\$18,127,553	\$127,553	\$18,127,553	\$122,714	\$18,250,267	(\$122,714)		\$31,780,587	\$50,030,854	(\$31,903,301)
<b>E0070 - ENGINEERING MANAGEMENT CONSULTANT (EMC) \ PARSONS-BRINCKERHOFF/DMJM</b>											
R82 004	\$64,328,505		\$3,635,684	\$67,964,189	\$1,880,785	\$69,844,974			\$8,500,964	\$78,345,938	
R82	\$64,328,505	\$72,513,902	\$3,635,684	\$67,964,189	\$1,880,785	\$69,844,974	\$2,668,928		\$8,500,964	\$78,345,938	(\$5,832,036)
R82	\$82,328,505	\$90,641,455	\$3,763,237	\$86,091,742	\$2,003,499	\$88,095,241	\$2,546,214		\$40,281,551	\$128,376,792	(\$37,735,337)

NOTES:

! NTE allowance has been exceeded.

(1) Includes planned scope additions incorporated via amendments

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VALUE SUMMARY  
01/02/96 10:46:20

**METRO SYSTEM  
PROFESSIONAL SERVICES CONTRACT VALUE SUMMARY**

EMC & Construction Manager changes recorded since April '91

**R84 - Metro Red Line Seg-3 East Side**

AS OF DATE: 01/02/96

AWARD		APPROVED			OBLIGATED		PENDING		PROJECTED		
CWO #	BASE CWO EST	AFE	AMENDMENTS \$	CURRENT CWO ESTIMATE	WORK AUTHORIZATIONS	TOTAL AUTH. COST	REMAINING AFE	PENDING CHANGES #	\$	TOTAL CWO + CHANGES	PROJECTED REMAINING AFE
A.	B.(1)	C.	D.	E.	F.	G.	H.	I.	J.	K.	
<b>E0070 - ENGINEERING MANAGEMENT CONSULTANT (EMC) \ PARSONS-BRINCKERHOFF/DMJM</b>											
R84 023	\$6,766,509		\$0	\$6,766,509	\$0	\$6,766,509			\$0	\$6,766,509	
R84 028	\$30,000,000		\$0	\$30,000,000	\$67,400	\$30,067,400			(\$11,900)	\$30,055,500	
<b>R84</b>	<b>\$36,766,509</b>	<b>\$38,766,509</b>	<b>\$0</b>	<b>\$36,766,509</b>	<b>\$67,400</b>	<b>\$36,833,909</b>	<b>\$1,932,600</b>	<b>  </b>	<b>(\$11,900)</b>	<b>\$36,822,009</b>	<b>\$1,944,500</b>
<b>R84</b>	<b>\$36,766,509</b>	<b>\$38,766,509</b>	<b>\$0</b>	<b>\$36,766,509</b>	<b>\$67,400</b>	<b>\$36,833,909</b>	<b>\$1,932,600</b>	<b>  </b>	<b>(\$11,900)</b>	<b>\$36,822,009</b>	<b>\$1,944,500</b>

NOTES:

! NTE allowance has been exceeded.

(1) Includes planned scope additions incorporated via amendments

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VALUE SUMMARY  
01/02/96 10:46:32

Pasadena Blue Line

**STATUS OF PROPOSED CONSULTANT AMENDMENT NOTICES OVER \$200,000**

The changes shown below are listed on a one-time only basis and will not appear on subsequent reports

AS OF: 01/04/96

PROJECT	CONSULTANT AMENDMENT NOTICE NUMBER	TITLE BASIS OF CHANGE	STATUS JUSTIFICATION	CURRENT ESTIMATE	WORK AUTHORIZED? NOT TO EXCEED VALUE
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PROFESSIONAL SERVICES CONTRACT NO.: E0070, PARSONS-BRINCKERHOFF/DMJM

R05	454.00	C6420-DESIGN CHANGE DUE TO INACCURATE AND INCOMPLETE OUTSIDE AGENCIES "AS BUILT" RECORDS (ECR'S 16, 30 & 31)  OUTSIDE AGENCY REQUIREMENTS CHANGE	CAN IN PREPARATION	200K - 500K	YES \$100,000.00
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**WHO IDENTIFIED:**

MTA Pasadena Engineering Manager  
EMC Project Unit Manager

**WHAT:**

This CCR combines ECR's #16, #30 and #31 for contract C6420 pertaining to outside agency data. This work is required because the data supplied to the EMC from outside agencies as basis of the preliminary design for survey and utility design was inaccurate and incomplete as determined by the additional potholing and survey work requested by the Section Designer. These changed "As-Builts" conditions required the Section Designer and his subconsultants to prepare new construction drawings to incorporate the changed conditions.

**JUSTIFICATION:**

The potholing and survey work requested by the Section Designer to confirm the "As-Built" conditions resulted in new information and required a new design which included alignment changes that impacted both track and utility plans and profiles and drainage plan layouts. Design hours are also included in this CCR for sketches and plans that were prepared by the Section Designer, at the request and approval of the FL/S Committee.

**COST IMPACT:**

This change is within the current R05 project budget. There is no cost recovery potential.

TOTAL CONTRACT E0070 > \$200K : 1 CAN(s)

**LEGEND:** CAN = CONSULTANT AMENDMENT NOTICE  
CTE = CHANGE TECHNICAL EVALUATION  
EMC = ENGINEERING MANAGEMENT CONSULTANT  
NTE = NOT-TO-EXCEED (AUTHORIZED)

Dennis Partridge  
OVER \$200K 01/04/96 16:39:25

Metro Red Line Seg-2

**STATUS OF PROPOSED CONSULTANT AMENDMENT NOTICES OVER \$200,000**

The changes shown below are listed on a one-time only basis and will not appear on subsequent reports

AS OF: 01/03/96

PROJECT	CONSULTANT AMENDMENT NOTICE NUMBER	TITLE BASIS OF CHANGE	STATUS JUSTIFICATION	CURRENT ESTIMATE	WORK AUTHORIZED? NOT TO EXCEED VALUE
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PROFESSIONAL SERVICES CONTRACT NO.: 03369, PARSONS-DILLINGHAM

R81	272.00	HDPE INSPECTION @ 215, 241, 252, 261, 271, & 281  EXTRA/ADDITIONAL WORK REQUESTED BY LACMTA	CAN IN PREPARATION	1 - 5 MILLION	NO \$0.00
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**WHO IDENTIFIED:**  
MTA's Project Manager for Red Line Segment Two

**WHAT:**

Provide inspection of High Density Polyethylene Membrane (HDPE) installation at B252, B281, B241, B261, B271, B215.

**JUSTIFICATION:**

At the time of construction at B201 it was discovered that HDPE installation was not being properly inspected. P-D developed Inspection Instruction QCII 3.0, Rev. 0 to provide guidelines for HDPE inspection. In a memo dated 9/21/92 (R81-SI300 attached as reference), Mr. J.J. Sandberg instructed P-D to implement HDPE inspection instructions on all Segment 2 projects. Consultant Change Request (CCR) R81-3369-115 was approved by the MTA on 12/7/92 to cover HDPE inspection at B211, B221, and B231. This CCR continues HDPE inspection to the additional contracts listed in the "WHAT" field above.

**COST IMPACT:**

This change is within the R81 budget. There is no potential cost recovery.

TOTAL CONTRACT 03369 > \$200K : 1 CAN(s)

LEGEND: CAN = CONSULTANT AMENDMENT NOTICE  
CTE = CHANGE TECHNICAL EVALUATION  
EMC = ENGINEERING MANAGEMENT CONSULTANT  
NTE = NOT-TO-EXCEED (AUTHORIZED)

Dennis Partridge  
OVER \$200K 01/03/96 10:29:37