

25

25

CONSTRUCTION

COMMITTEE RECOMMENDATION

The Committee concurred with the staff recommendation to approve an increase to the Authorization for Expenditure on Contract No. H0900 with Mass Electric Construction Corp., covering the design, furnishing, installation and testing of the Safety and Security Communication System (S&SC) on the Metro Green Line in the amount of \$121,444, for a revised total AFE amount of \$11,064,444; and

CC 3

CC 3



Los Angeles County
Metropolitan
Transportation
Authority

August 10, 1995

TO: CONSTRUCTION COMMITTEE

THROUGH: FRANKLIN E. WHITE

FROM: STANLEY G. PHERNAMBUCO *Stanley G. Phernambuco*

SUBJECT: METRO GREEN LINE
CONTRACT NO. H0900 - SAFETY AND SECURITY
COMMUNICATION SYSTEM (S&SCS)
CONTRACTOR: MASS ELECTRIC CONSTRUCTION CORP.
APPROVAL TO INCREASE AUTHORIZATION FOR
EXPENDITURE

818 West Seventh Street
Suite 300
Los Angeles, CA 90017

213.972.6000

Mailing Address:
P.O. Box 194
Los Angeles, CA 90053

RECOMMENDATION

It is recommended that the MTA Board approve an increase to the Authorization For Expenditure in the amount of \$121,444.00 for a revised total AFE amount of \$11,064,444.00.

DBE PARTICIPATION

The DBE participation goal for this contract is 12%. It is anticipated that the contractor will meet this goal.

ALTERNATIVES CONSIDERED

The MTA Board has the option to disapprove the AFE increase which would result in insufficient funds to compensate the contractor for outstanding changes. Subsequently, the contractor may file a claim and/or take legal action to recover these monies.

IMPACT ON BUDGET AND OBJECTIVES

Funds for this action are available within the MTA approved Project Contingency.

CONSTRUCTION COMMITTEE
Contract No. H0900, Safety & Security
Communication System
August 10, 1995
Page 2

BACKGROUND

This contract involves the designing, furnishing, installing and testing of the Safety and Security Communication (S&SC) System. The S&SC System encompasses five major subsystems: Fire Depression and Suppression Monitoring (FDSM), Closed-Circuit Television (CCTV), Public Address (PA), Variable Message Sign (VMS), Intrusion and Seismic Detection. The contract was awarded on July 22, 1992 to Mass Electric Construction Corporation. Notice-To-Proceed (NTP) was issued on August 12, 1992.

The contract AFE needs to be increased to cover pending Change Notices (CNs) in order to accomplish contract closeout. The major pending changes include the following work:

- Fire Detection Zone Changes (CN-16)
- Central Control Facility rack mounted access panel (CN-34)
- Furnish and installation of noise reduction devices (CN-43)

CN-16 entails modifying the fire alarm detector coverage and detector assignments. Modification of the fire alarm system was necessitated primarily by the changed conditions at the passenger stations described here:

1. The addition of two elevators and one escalator at Wilmington/Imperial passenger station interchange (New ADA requirement).
2. Redesign fire detection zone to expand coverage at the El Segundo Segment station per fire code (no cost recovery).
3. Addition of a fire detection zone for the new Automatic Train Control (ATC) bungalow (H1100 contract) in the Hawthorne Yard Facility (no cost recovery - H1100 contractor required more space to house H1100 equipment).

CN-34 provides for the contractor to furnish and install five (5) Public Address (PA) access panels in the Metro Green Line (MGL) Closed Circuit Television (CCTV) surveillance console and one PA access panel into the

CONSTRUCTION COMMITTEE
Contract No. H0900, Safety & Security
Communication System
August 10, 1995
Page 3

Supervisor's console position. This change is the result of requirements initiated by a staff committee composed of MTA Construction, MTA Operations and EMC (Central Control Committee) in order to minimize desk top equipment, i.e. keyboard, telephone instruments and public address panels.

CN-43 requires the contractor to furnish and install nine speech processor devices which will improve intelligibility of audio to station patrons. This change is necessary because excessive ambient noise masks the audibility and intelligibility of emergency messages at station platforms located in the I-105 median.

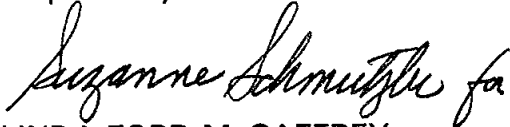
If this AFE request is approved, all of the pending changes are within the Project Manager's approval authority.

The principal reason for needing additional AFE was to redesign the Variable Message Sign (VMS) Subsystem under the previously approved Change Order No. 9. This change upgraded the original VMS system to be in compliance with Americans with Disabilities Act (ADA) requirements. ADA requirements were enacted subsequent to the contract being designed and awarded. Change Order No. 9 expended more than 50% of the original contract contingency.

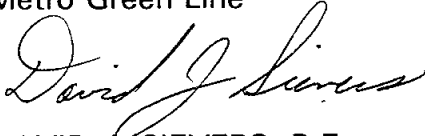
Another factor contributing to the need for additional AFE stems from different site conditions found at the passenger stations along the Metro Green Line alignment than was originally planned. The H0900 contract was bid while the passenger station facility contracts (Caltrans and C0100) were still undergoing changes. In order to complete installation of the S&SC system, the contractor had to make appropriate changes to make the equipment fit the actual conditions found.

CONSTRUCTION COMMITTEE
Contract No. H0900, Safety & Security
Communication System
August 10, 1995
Page 4

Prepared by:



LINDA FORD-McCAFFREY
Manager of Contracts
Metro Green Line



DAVID J. SIEVERS, P.E.
Deputy Executive Officer/
Project Manager
Metro Green Line

ATTACHMENT A
CONTRACT VALUE STATUS
R23 Metro Green Line
CHANGE ORDER : H0900-CO-18.00

CONTRACTOR: MASS ELECTRIC CONSTRUCTION CO. - SAFETY & SECURITY COMMUNICATION
CHANGE TITLE: CLOSE-OUT OF WACN NOS. 46 & 52

CONTRACT VALUE STATUS

1.	CONTRACT AWARD AMOUNT:	\$9,948,180.00
2.	PREVIOUSLY EXECUTED CHANGES:	\$846,249.34
3.	CURRENT CONTRACT VALUE: (1 + 2)	\$10,794,429.34
4.	AUTHORIZED WACN'S (NTE):	\$100,000.00
5.	OBLIGATED CONTRACT VALUE: (3 + 4)	\$10,894,429.34
6.	VALUE OF THIS CHANGE:	\$14,385.16
7.	ESTIMATED CONTRACT VALUE: (5 + 6)	\$10,908,814.50

AUTHORIZED FOR EXPENDITURE STATUS

INCREASE IN AFE REQUIRED/REQUESTED:

8.	MTA APPROVED AFE:	\$10,943,000.00	Award + 10.00%
9.	ESTIMATED CONTRACT VALUE: (Line 7)	\$10,908,814.50	
10.	REMAINING AFE (Actual 8-9)	\$34,185.50	\$0.00 For current actual costs
11.	OTHER PENDING CHANGES (merited)	\$155,629.74	
12.	REMAINING AFE (w/CHANGES 10-11)	(\$121,444.24)	\$121,444.24 For pending changes
13.	TRENDS AND CONTINGENCIES (pending merit finding)	\$1,091,555.76	
14.	REMAINING AFE: (w/TRENDS 12-13)	(\$1,213,000.00)	\$1,213,000.00 For possible changes

CONTRACT BUDGET STATUS

15.	CURRENT CONTRACT BUDGET:	\$12,948,000.00
16.	FORECAST CONTRACT VALUE: (9 + 11 + 13)	\$12,156,000.00
17.	REMAINING CONTRACT BUDGET: (15-16)	\$792,000.00

CONTRACT INCREASE PERCENTAGES

18.	% OF ORIGINAL AWARD VALUE (THIS CHANGE)	0.145%
19.	% OF ORIGINAL AWARD VALUE (MERITED CHANGES)	11.076%
20.	% OF ORIGINAL AWARD VALUE (ALL CHANGES)	22.193%
21.	% CONTRACT COMPLETE:	100%

REVIEWED BY MTA PROGRAM CONTROL: D. STINER - PROJECT CONTROL

DATE:

INCLUDES BOTH DESIGN AND CONTRACT CHANGES

TOTAL CHANGE COSTS - NOT ALLOCATED

METRO SYSTEM
R23 - Metro Green Line
CHANGE ACTION LOG: PENDING CONTRACT CHANGES
 UNEXECUTED DESIGN AND CONTRACT CHANGES

AS OF: 07/20/95

CONTRACT: H0900 SAFETY & SECURITY COMMUNICATIO

CONFIDENTIAL MATERIAL

CO #	CN # TYPE	CHANGE TITLE DCN DESCRIPTION	LOG DATE APPROVED CN ISSUED	POTENTIAL COST RECOVERY?	ESTIMATED COST (A)	NOT-TO EXCEED AUTHORIZATION (B)	=	REMAINING COST PENDING (C)	STATUS	
LOGGED CONTRACT CHANGES										
	4.00 RFP	CCTV MONIOTR CLUSTER RECONFIGURATION	04/06/93 06/02/93 06/02/93		\$0.00	-	\$0.00	=	\$0.00	NEGOTIATED
	10.00 WA/TM	PROVISION OF MBL MOUNTING PADS	01/13/94 04/28/94 04/29/94		\$10,901.73	-	\$8,000.00	=	\$2,901.73	NEGOTIATED
	16.00 RFP	FIRE DETECTION ZONE CHANGES (H0900-CN-016/R23-94-DCN-6.00)	02/10/94 06/09/94 06/22/94		\$52,505.93	-	\$0.00	=	\$52,505.93	NEGOTIATED
	34.00 RFP	CCF RACK MOUNTED P.A. ACCESS PANEL (H0900-CN-034/R23-94-021)	10/12/94 11/09/94 11/09/94		\$39,217.50	-	\$0.00	=	\$39,217.50	CN ISSUED
	41.01 WA/TM	AMBIENT NOISE REDUCTION DESIGN AND TEST SET UP	04/20/95 04/24/95 04/24/95		\$12,961.73	-	\$12,000.00	=	\$961.73	NEGOTIATED
	43.00 WA/TM	FURNISH AND INSTALL NINE NOISE REDUCTION DEVICES	04/11/95 04/25/95 05/03/95		\$80,000.00	-	\$80,000.00	=	\$0.00	WACN ISSUED
	44.00 WA/TM	ADD CCTV CONDUIT AT CRENSHAW STATION	04/20/95	BK (CALTRANS)	\$2,042.85	-	\$2,042.85?	=	\$2,042.85	CN IN PROCESS
	48.00 WA/TM	PROVISION OF TELCO CARDS	06/19/95		\$5,000.00	-	\$5,000.00?	=	\$5,000.00	CN IN PROCESS
	50.00 RFP	ADMINISTRATIVE CHANGE - CONTINGENCY	06/12/95		\$30,000.00	-	\$0.00	=	\$30,000.00	CN IN PROCESS
	51.00 RFP	COMPENSATION FOR INCREASED BOND PREMIUM	06/12/95		\$7,000.00	-	\$0.00	=	\$7,000.00	CN IN PROCESS
	53.00 WA/TM	REVISE CONDUIT AT DOUGLAS STATION	06/19/95	EO (EMC)	\$5,000.00	-	\$5,000.00?	=	\$5,000.00	CN IN PROCESS

? = CN NOT ISSUED/NTE VALUE NOT OBLIGATED

CN TYPE LEGEND: WA = WORK AUTHORIZATION TM = TIME/MATERIALS TBN = TO BE NEGOTIATED RFP = REQUEST-FOR-PROPOSAL SOV = SCHEDULE OF VALUES NGO = FIELD NEGOTIATED

POTENTIAL COST RECOVERY LEGEND: EO = ERROR OR OMISSION (RECOVER FROM CONTRACTOR OR CONSULTANT) BK = BACKCHARGE (RECOVER FROM ANOTHER CONTRACT) BT = BETTERMENT (RECOVER FROM ANOTHER AGENCY) LL = LESSONS LEARNED (REDUCE COST IN FUTURE CONTRACTS) IN = INSURANCE COVERAGE

INCLUDES BOTH DESIGN AND CONTRACT CHANGES

TOTAL CHANGE COSTS - NOT ALLOCATED

METRO SYSTEM
R23 - Metro Green Line
CHANGE ACTION LOG: PENDING CONTRACT CHANGES
UNEXECUTED DESIGN AND CONTRACT CHANGES

AS OF: 07/20/95

CONTRACT: H0900 SAFETY & SECURITY COMMUNICATIO

CONFIDENTIAL MATERIAL

CO #	CN # TYPE	CHANGE TITLE DCN DESCRIPTION	LOG DATE APPROVED CN ISSUED	POTENTIAL COST RECOVERY?	ESTIMATED COST (A)	-	NOT-TO EXCEED AUTHORIZATION (B)	=	REMAINING COST PENDING (C)	STATUS
	54.00 WA/TBN	COMMENCEMENT OF PROCEEDING WITH THE SCOPE OF CHANGE NOTICE NO. 34 (CCF RACK MOUNTED P.A. ACCESS PANEL)	06/19/95		\$10,000.00	-	\$10,000.00?	=	\$10,000.00	CN IN PROCESS
	55.00 WA/TM	VMS POWER AT AVALON STATION	06/19/95		\$1,000.00	-	\$1,000.00?	=	\$1,000.00	CN IN PROCESS
	56.00 RFP	REDEFINE MILESTONE NO. 3 AND NO. 4 SCOPE	06/19/95		\$0.00	-	\$0.00	=	\$0.00	CN IN PROCESS
	57.00 RFP	ADJUSTMENT TO DRB CONTRACT OPTION (PAY ITEM)	06/29/95		\$0.00	-	\$0.00	=	\$0.00	CN IN PROCESS
TOTAL PENDING LOGGED CHANGES:		15			\$255,629.74		\$100,000.00		\$155,629.74	
TOTAL H0900 PENDING:					\$255,629.74		\$100,000.00		\$155,629.74	

? = CN NOT ISSUED/NTE VALUE NOT OBLIGATED

CN TYPE LEGEND: WA = WORK AUTHORIZATION TM = TIME/MATERIALS TBN = TO BE NEGOTIATED RFP = REQUEST-FOR-PROPOSAL SOV = SCHEDULE OF VALUES NGO = FIELD NEGOTIATED

POTENTIAL COST RECOVERY LEGEND: EO = ERROR OR OMISSION (RECOVER FROM CONTRACTOR OR CONSULTANT) BK = BACKCHARGE (RECOVER FROM ANOTHER CONTRACT) BT = BETTERMENT (RECOVER FROM ANOTHER AGENCY) LL = LESSONS LEARNED (REDUCE COST IN FUTURE CONTRACTS) IN = INSURANCE COVERAGE

LIST OF AFFECTED SUBCONTRACTORS
CONTRACT NO. H0900, SAFETY & SECURITY COMMUNICATION SYSTEM

BIDDER NAME AND ADDRESS	AFFECTED SUBCONTRACTORS	AFFECTED SUBCONTRACTOR CONTACT PERSON/TEL #	DBE's ETHNICITY	DESCRIPTION OF WORK TO BE DONE/DISCIPLINE
Mass Electric Construction Co. 180 Guest St., Boston, Mass 02135	Universal Wholesale Electrical Supply 541 Rialto Ave. Rialto, CA 92376	Gloria O'Neil (909) 421-7922	N/A	Supplier of electrical material
	DiCarlo Associates, Inc. 1359 Hancock St. Ste 1R Quincy, MA 02169	Donna DiCarlo (617) 471-5222	N/A	Supplier of electrical and electronic material