

**EXHIBIT D: PROJECT COST ITEMIZATION SCHEDULE
Phase I and II Summary**

5. Exhibit D
Cost schedule

Services

Site Upgrade Work (Construction, Construction Management)		\$ 4,135,588.00
One Market Plaza	\$ 271,159.00	
Fort Miley	\$ 366,662.00	
South Hill	\$ 372,783.00	
Forest Hill	\$ 192,775.00	
CRS	\$ 1,617,368.00	
Bernal Heights	\$ 294,875.00	
SF State	\$ 354,396.00	
DTIS Radio Facility Upgrade	\$ 665,570.00	
Contracted Services (Installation, Programming)		\$ 975,196.00
Engineering (System Techs, Engineers, Optimizations)		\$ 2,153,220.00
System Integration (S.I. Personnel, Documentation, Warehouse)		\$ 1,493,449.00
Training		\$ 526,780.00
Freight		\$ 355,925.00
Warranty		\$ 128,311.00
Total Services		\$ 9,768,469.00

Radio Subscriber Equipment

Mobile Radio Equipment		\$ 2,348,230.00
Portable Radio Equipment		\$ 7,725,393.00
Control Stations		\$ 782,710.00
Radio Subscriber Total		\$ 10,856,333.00

Fixed Network Equipment (8 Sites with Staging)		\$ 7,766,676.00
Microwave System		\$ 1,512,000.00
Test Equipment		\$ 293,000.00
Dispatch Equipment		\$ 1,666,995.00
Coverage Enhancements:		\$ 3,631,351.00
Muni Tunnels	\$2,861,749	
Mandatory Special Areas	769,602	

System Sub Total		\$ 35,494,824.00
System Discount		\$ (1,055,625.00)
Net		\$34,439,199
Additions:		
Tax		\$ 1,933,166.00
Clay Jones Site Development		\$ 175,000.00
System Total, phase 1 and phase 2		\$36,547,365

**Exhibit D: Project Cost Itemization
Phase I**

Services

Site Upgrade Work (Construction, Construction Management)		\$ 4,135,588.00
One Market Plaza	\$ 271,159.00	
Fort Miley	\$ 366,662.00	
South Hill	\$ 372,783.00	
Forest Hill	\$ 192,775.00	
CRS	\$ 1,617,368.00	
Bernal Heights	\$ 294,875.00	
SF State	\$ 354,396.00	
DTIS Radio Facility Upgrade	\$ 665,570.00	
Contracted Services		\$ 23,550.00
Training		\$ 375,495.00
Freight		\$ 200,000.00
Warranty		\$ 128,311.00
Engineering (System Techs, Engineers, Optimizations)		\$ 2,153,220.00
System Integration (S.I. Personnel, Documentation, Warehouse)		\$ 1,493,449.00
Total Services		\$ 8,509,613.00

Radio Subscriber Equipment

Mobile Radio Equipment		\$ 100,557.50
Portable Radio Equipment		\$ 139,400.80
Control Stations		\$ 49,809.00
Accessories		\$ 19,801.25
Radio Subscriber Total		\$ 309,568.55

Fixed Network Equipment (8 Sites with Staging)		\$ 7,766,676.00
Microwave System		\$ 1,512,000.00
Test Equipment		\$ 293,000.00
Dispatch Equipment		\$ 1,666,995.00
Coverage Enhancements:		\$ 3,631,351.00
Muni Tunnels	\$ 2,861,749.00	
Mandatory Special Areas	\$ 769,602.00	

System Sub Total		\$ 23,689,203.55
System Discount		\$ (583,456.00)
Net		\$ 23,105,747.55
Additions		
Tax		\$ 1,075,598.00
Clay Jones Site Development		\$ 175,000.00

System Total, phase 1 only **\$ 24,356,345.55**

**Exhibit D: Project Cost Itemization
Phase II**

Contracted Services (Installation, Programming)	\$ 951,646.00
Training	\$ 151,285.00
Freight	\$ 155,925.00
Total Services	\$ 1,258,856.00

Radio Subscriber Equipment

Mobile Radio Equipment	\$ 2,247,672.50
Portable Radio Equipment	\$ 7,566,190.95
Control Stations	\$ 732,901.00

Radio Subscriber Total **\$ 10,546,764.45**

System Sub Total, Phase 2 Only **\$ 11,805,620.45**

System Discount **\$ (472,169.00)**

Net **\$ 11,333,451.45**

Additions:

Tax **\$ 857,568.00**

System Total **\$ 12,191,019.45**

**Exhibit D: Project Cost Itemization Schedule
Optional Coverage Enhancement Phase**

Services

Civil (Construction, Construction Management)		\$ 1,100,439.00
Potero Reservoir	\$ 372,794.00	
Presidio	\$ 727,645.00	
Engineering (System Techs, Engineers, Optimizations)		\$ 73,250.00
System Integration (S.I. Personnel, Documentation, Warehouse)		\$ 32,730.00
Freight		\$ 90,816.00
Warranty		\$ 9,118.00

Total Services \$ 1,306,353.00

Fixed Network Equipment \$ 788,930.00
Microwave System \$ 280,540.00

Total \$ 2,375,823.00

Additions:

Special Areas of Coverage		\$ 1,561,602.00
Candlestick	\$ 373,750.00	
Jails 8 & 9	\$ 82,852.00	
S.F. General Hospital	\$ 373,750.00	
Central Medical	\$ 225,000.00	
City Hall	\$ 225,000.00	
Treasure Island Fire	\$ 93,750.00	
Treasure Island Jail	\$ 93,750.00	
Emergency Center	\$ 93,750.00	

System Total \$ 3,937,425.00

Less System Discount \$ (43,140.00)

Add Tax \$ 143,881.00

Total \$ 4,038,166.00

CERS Manager		\$ 658,115.00
System Discount		\$ (28,562.00)
Taxes		\$ 53,512.00
CERS Manager Total		<u>\$ 683,065.00</u>

Total Coverage Enhancement Phase \$ 4,721,231.00

**Exhibit D: Project Cost Itemization Schedule
Wireless Data Network Phase**

Services **\$ 350,000.00**

System Integration/Engineering Services

- Project Management
- Engineering
- System Technologists
- Site inspection, installation, optimization
- Computer installation
- Acceptance Testing
- Documentation
- Training
- Warranty

Freight **\$ 11,000.00**

Total Services **\$ 361,000.00**

Fixed Network Equipment **\$ 663,682.00**

Wireless Data Network Subtotal **\$ 1,024,682.00**

System Discount **\$ (44,472.00)**

Taxes **\$ 83,318.00**

Wireless Data Network Net Total **\$ 1,063,528.00**

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontract		Total		Total	
Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Total \$	Total Costs	
1		1. Project Management	0			\$1,214,594.00		\$0.00		\$0.00	\$0.00	\$1,214,594.00	
2		Temporary Facilities (Excludes Training Facility)	1			\$0.00		\$0.00	\$234,900.00	\$234,900.00	\$234,900.00	\$234,900.00	
3		Engineering Services	1			\$0.00		\$0.00	\$2,153,220.00	\$2,153,220.00	\$2,153,220.00	\$2,153,220.00	
4		Installation Services	1			\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
5		Construction Services (Civ)	1			\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6		Field Staff	0			\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
7		Miscellaneous Field Indirects	0			\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
8		Home Office Services	0			\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
9													
10													
11		2. Training Courses	1			\$526,780.00		\$0.00		\$0.00	\$526,780.00	\$526,780.00	
12		Training Facility	0			\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	
13		Tech./Maintenance Training	0			\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	
14		Radio User Training	0			\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	
15		Console User Training	0			\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	
16		Trainer Training	0			\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	
17		SECTION 1 AND 2 TOTAL										\$4,129,494.00	
18													
19		3. Radio Equipment - End User											
20													
21		****PORTABLES****											
22		****MTS2000****											
23		Model 1 w/o Kpd	1075			\$0.00		\$0.00		\$0.00	\$53,750.00	\$53,750.00	
24		MTS2000 PORTABLE SERIES	1075			\$0.00		\$963.60		\$1,035,870.00	\$1,035,870.00	\$1,035,870.00	
25		MTS2000 13W 806-870 MHZ	1075			\$0.00		\$156.95		\$168,721.25	\$168,721.25	\$168,721.25	
26		ALT: BATTERY, FACTORY MUTUAL	1075			\$0.00		\$48.91		\$52,578.25	\$52,578.25	\$52,578.25	
27		ENH: TRUNKED REMOTE MONITOR	1075			\$0.00		\$73.00		\$78,473.00	\$78,473.00	\$78,473.00	
28		ADD: SMARTNET SYSTEM PACKAGE	1075			\$0.00		\$502.24		\$539,908.00	\$539,908.00	\$539,908.00	
29		CASE, 3.0" HI ACTIVITY ULTRA HI CAP	1075			\$0.00		\$43.80		\$47,085.00	\$47,085.00	\$47,085.00	
30		SECTION TOTAL										\$1,976,387.50	
31		****ASTRO XTS3000****											
32		Model 1 w/o Kpd	1292			\$0.00		\$0.00		\$0.00	\$64,600.00	\$64,600.00	
33		ASTRO DIG XTS 3000 BASIC 800MHZ PORT	1292			\$0.00		\$1,237.35		\$1,598,656.20	\$1,598,656.20	\$1,598,656.20	
34		ALT: BATTERY ULTRA HIGH CAP NICD FM	1292			\$0.00		\$34.31		\$44,328.52	\$44,328.52	\$44,328.52	
35		ENH: TRUNKED REMOTE MONITOR	1292			\$0.00		\$73.00		\$94,316.00	\$94,316.00	\$94,316.00	
36		ENH: ANALOG OPERATION	1292			\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	
37		ADD: SMARTNET SYSTEM PACKAGE	1292			\$0.00		\$876.00		\$1,131,792.00	\$1,131,792.00	\$1,131,792.00	
38		CASE, CARRY HIGH ACTIVITY	1292			\$0.00		\$43.80		\$56,589.60	\$56,589.60	\$56,589.60	
39		SECTION TOTAL										\$2,990,282.32	
40		****ASTRO SABER****											
41		Model 1 w/o Kpd	199			\$0.00		\$0.00		\$0.00	\$9,950.00	\$9,950.00	
42		ASTRO DIG SABER PORT SERIES	199			\$0.00		\$1,314.00		\$261,486.00	\$261,486.00	\$261,486.00	
43		ASTRO DIGITAL SABER 1600MHZ PORT	199			\$0.00		\$142.35		\$28,327.65	\$28,327.65	\$28,327.65	
44		ALT: BATTERY, RUGGEDIZED FM	199			\$0.00		\$4.38		\$871.62	\$871.62	\$871.62	
45		ENH: TRUNKED REMOTE MONITOR	199			\$0.00		\$73.00		\$14,527.00	\$14,527.00	\$14,527.00	
46		ENH: TRUNKED ONE BUTTON STATUS/MSG	199			\$0.00		\$109.50		\$21,790.50	\$21,790.50	\$21,790.50	
47		ALT: RUGGEDIZED ASTRO DIGITAL SABER	199			\$0.00		\$346.02		\$68,857.98	\$68,857.98	\$68,857.98	
48		ENH: ANALOG OPERATION	199			\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	
49		ADD: SMARTNET SYSTEM PACKAGE	199			\$0.00		\$481.80		\$95,878.20	\$95,878.20	\$95,878.20	
50		CARRY CASE, LEATHER SWIVEL SNAP	199			\$0.00		\$45.99		\$9,152.01	\$9,152.01	\$9,152.01	
51		BELT LOOP, SWIVEL 3 INCH	199			\$0.00		\$5.84		\$1,162.16	\$1,162.16	\$1,162.16	
52		SECTION TOTAL										\$512,003.12	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Total Costs
49	****ASTRO XTS3000**	Model I w/o Kpd w/Encrypt	60			\$0.00	\$0.00	\$0.00	\$50.00	\$3,000.00	\$3,000.00
50	H09UCSPW6 N	ASTRO DIG XTS 3000	60			\$0.00	\$1,237.35	\$7,421.00		\$0.00	\$7,421.00
51	H223	ALT: BATTERY ULTRA HIGH CAP NICD FM	60			\$0.00	\$34.31	\$2,058.60		\$0.00	\$2,058.60
52	H43	ENH: TRUNKED REMOTE MONITOR	60			\$0.00	\$73.00	\$4,380.00		\$0.00	\$4,380.00
53	H43	ENH: TRUNKED REMOTE MONITOR	60			\$0.00	\$365.00	\$21,900.00		\$0.00	\$21,900.00
54	O806	ADD: APCO 25 COMMON AIR INTERFACE	60			\$0.00	\$663.57	\$39,814.20		\$0.00	\$39,814.20
55	Q274	ADD: DES-OFB AND DES-XL ENCRYPTION	60			\$0.00	\$876.00	\$52,560.00		\$0.00	\$52,560.00
56	H37	ADD: SMARTNET SYSTEM PACKAGE	60			\$0.00	\$43.80	\$2,628.00		\$0.00	\$2,628.00
57	NTN8386	CASE, CARRY HIGH ACTIVITY	60			\$0.00					\$2,000,581.80
58		SECTION TOTAL									
59	****MTS2000*****	Model I w/o Kpd	133			\$0.00	\$0.00	\$0.00	\$50.00	\$6,650.00	\$6,650.00
60	H010X	MTS2000 PORTABLE SERIES	133			\$0.00	\$563.60	\$128,158.80		\$0.00	\$128,158.80
61	204H	MTS2000 III SW 806-870 MHZ	133			\$0.00	\$638.75	\$84,953.75		\$0.00	\$84,953.75
62	H223	ALT: BATTERY FACTORY MUTUAL	133			\$0.00	\$48.91	\$6,505.03		\$0.00	\$6,505.03
63	H43	ENH: TRUNKED REMOTE MONITOR	133			\$0.00	\$73.00	\$9,709.00		\$0.00	\$9,709.00
64	H46	ENH: ONE TOUCH BUTTON	133			\$0.00	\$108.50	\$14,563.50		\$0.00	\$14,563.50
65	H37	ADD: SMARTNET SYSTEM PACKAGE	133			\$0.00	\$502.24	\$66,797.92		\$0.00	\$66,797.92
66	NTN8038	CASE, 3.0" HI ACTIVITY ULTRA HI CAP	133			\$0.00	\$43.80	\$5,825.40		\$0.00	\$5,825.40
67		SECTION TOTAL									\$323,163.40
68	****ASTRO XTS3000**	Model I w/o Kpd	178			\$0.00	\$0.00	\$0.00	\$50.00	\$8,900.00	\$8,900.00
69	H09UCHPW7 N	ASTRO DIG XTS 3000 FULL FEATURE 800	178			\$0.00	\$1,675.35	\$298,212.30		\$0.00	\$298,212.30
70	H223	ALT: BATTERY ULTRA HIGH CAP NICD FM	178			\$0.00	\$34.31	\$6,107.18		\$0.00	\$6,107.18
71	H43	ENH: TRUNKED REMOTE MONITOR	178			\$0.00	\$73.00	\$12,994.00		\$0.00	\$12,994.00
72	H46	ENH: TRUNKED 1 BTN STATUSMESSAGE	178			\$0.00	\$109.50	\$19,491.00		\$0.00	\$19,491.00
73	Q241	ENH: ANALOG OPERATION	178			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
74	H37	ADD: SMARTNET SYSTEM PACKAGE	178			\$0.00	\$876.00	\$155,928.00		\$0.00	\$155,928.00
75	NTN8381	CASE, CARRY HIGH ACTIVITY	178			\$0.00	\$43.80	\$7,796.40		\$0.00	\$7,796.40
76		SECTION TOTAL									\$509,428.88
77	****ASTRO SABER****	Model II w/o Kpd	25			\$0.00	\$0.00	\$0.00	\$50.00	\$1,250.00	\$1,250.00
78	H980X	ASTRO DIG SABER PORT SERIES	25			\$0.00	\$1,314.00	\$32,850.00		\$0.00	\$32,850.00
79	212H	ASTRO DIGITAL SABER II 800MHZ PORT	25			\$0.00	\$361.35	\$9,033.75		\$0.00	\$9,033.75
80	H223AJ	ALT: BATTERY, RUGGEDIZED FM	25			\$0.00	\$4.38	\$109.50		\$0.00	\$109.50
81	H43	ENH: TRUNKED REMOTE MONITOR	25			\$0.00	\$73.00	\$1,825.00		\$0.00	\$1,825.00
82	H46	ENH: TRUNKED ONE BUTTON STATUS/MSG.	25			\$0.00	\$109.50	\$2,737.50		\$0.00	\$2,737.50
83	H499	ALT: RUGGEDIZED ASTRO DIGITAL SABER	25			\$0.00	\$346.02	\$8,650.50		\$0.00	\$8,650.50
84	Q241	ENH: ANALOG OPERATION	25			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
85	H37	ADD: SMARTNET SYSTEM PACKAGE	25			\$0.00	\$481.80	\$12,045.00		\$0.00	\$12,045.00
86	NLN4530	BELT LOOP, SWIVEL 3 INCH	25			\$0.00	\$5.84	\$146.00		\$0.00	\$146.00
87	NTN7573	CARRY CASE, LEATHER SWIVEL SNAP	25			\$0.00	\$45.99	\$1,149.75		\$0.00	\$1,149.75
88		SECTION TOTAL									\$69,797.00
89	****ASTRO XTS3000**	Model III w/Kpd w/Encrypt	132			\$0.00	\$0.00	\$0.00	\$50.00	\$6,600.00	\$6,600.00
90	H09UCHPW7 N	ASTRO DIG XTS 3000 FULL FEATURE 800	132			\$0.00	\$1,675.35	\$221,146.20		\$0.00	\$221,146.20
91	H223	ALT: BATTERY ULTRA HIGH CAP NICD FM	132			\$0.00	\$34.31	\$4,528.92		\$0.00	\$4,528.92
92	H43	ENH: TRUNKED REMOTE MONITOR	132			\$0.00	\$73.00	\$9,636.00		\$0.00	\$9,636.00
93	H46	ENH: TRUNKED 1 BTN STATUSMESSAGE	132			\$0.00	\$108.50	\$14,454.00		\$0.00	\$14,454.00
94	Q274	ADD: DES-OFB AND DES-XL ENCRYPTION	132			\$0.00	\$663.57	\$87,591.24		\$0.00	\$87,591.24
95	O806	ADD: APCO 25 COMMON AIR INTERFACE	132			\$0.00	\$365.00	\$48,180.00		\$0.00	\$48,180.00
96	H37	ADD: SMARTNET SYSTEM PACKAGE	132			\$0.00	\$876.00	\$115,632.00		\$0.00	\$115,632.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97 Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Total Costs
97	NTN8381	CASE, CARRY HIGH ACTIVITY	132			\$0.00	\$43.80	\$5,781.60		\$0.00	\$5,781.60
		SECTION TOTAL									\$5,781.60
98	****ASTRO SABER****	Model II w/Kpd & Encryt Rugged	6			\$0.00	\$0.00	\$0.00	\$50.00	\$0.00	\$500.00
99	H89DX	ASTRO DIG SABER PORT SERIES	6			\$0.00	\$1,314.00	\$7,884.00		\$0.00	\$7,884.00
100	212H	ASTRO DIG SABER II 800MHZ PORT	6			\$0.00	\$361.35	\$2,168.10		\$0.00	\$2,168.10
101	H223AJ	ALT: BATTERY, RUGGEDIZED FM	6			\$0.00	\$4.38	\$26.28		\$0.00	\$26.28
102	H43	ENH: TRUNKED REMOTE MONITOR	6			\$0.00	\$73.00	\$438.00		\$0.00	\$438.00
103	H46	ENH: TRUNKED ONE BUTTON STATUS/MSG	6			\$0.00	\$109.50	\$657.00		\$0.00	\$657.00
104	H499	ALT: RUGGEDIZED ASTRO DIGITAL SABER	6			\$0.00	\$346.02	\$2,076.12		\$0.00	\$2,076.12
105	Q274	ADD: DES OFB AND DES-XL	6			\$0.00	\$663.57	\$3,981.42		\$0.00	\$3,981.42
106	Q806	ADD: APCO 25 COMMON AIR INTERFACE	6			\$0.00	\$365.00	\$2,190.00		\$0.00	\$2,190.00
107	H37	ADD: SMARTNET SYSTEM PACKAGE	6			\$0.00	\$481.80	\$2,890.80		\$0.00	\$2,890.80
108	NLN4530	BELT LOOP, SWIVEL 3 INCH	6			\$0.00	\$5.84	\$35.04		\$0.00	\$35.04
109	NTN7573	CARRY CASE, LEATHER SWIVEL SNAP	6			\$0.00	\$45.99	\$275.94		\$0.00	\$275.94
110		SECTION TOTAL									\$21,922.70
111	****MOBILE****	****DASH MOUNT****									
112	****MOBILE****	Model III, w/ Kpd	303			\$0.00	\$0.00	\$0.00	\$250.00	\$0.00	\$75,750.00
113	****MCS2000****	MCS2000 HIGH SPEC MOBILE	303			\$0.00	\$693.50	\$210,130.50		\$0.00	\$210,130.50
114	M01HX	800MHZ 15W MODEL II	303			\$0.00	\$653.35	\$197,965.05		\$0.00	\$197,965.05
115	B688	ADD: PUSH SWITCH, EMERGENCY	303			\$0.00	\$25.55	\$7,741.65		\$0.00	\$7,741.65
116	G495	ADD: ANTENNA 1/4 WAVE 806-800MHZ	303			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
117	H43	ENH: TRUNKING REMOTE MONITOR	303			\$0.00	\$73.00	\$22,119.00		\$0.00	\$22,119.00
118	H46	ENH: ONE TOUCH BUTTON	303			\$0.00	\$109.50	\$33,178.50		\$0.00	\$33,178.50
119	H57	ADD: SMARTNET SYSTEM PACKAGE	303			\$0.00	\$456.25	\$138,243.75		\$0.00	\$138,243.75
120		SECTION TOTAL									\$685,128.45
121	****ASTRO SPECTA****	Model A7, w/Kpd	252			\$0.00	\$0.00	\$0.00	\$250.00	\$0.00	\$63,000.00
122	T99DX	ASTRO DIG SPECTRA MOBILE SERIES	252			\$0.00	\$1,525.70	\$384,476.40		\$0.00	\$384,476.40
123	132W	35W 800 806-870 A7	252			\$0.00	\$397.85	\$100,258.20		\$0.00	\$100,258.20
124	W688	ADD: EXTERNAL EMERGENCY PUSHBUTTON	252			\$0.00	\$40.88	\$10,301.76		\$0.00	\$10,301.76
125	W432	ENH: 10 WATT AUDIO	252			\$0.00	\$10.95	\$2,759.40		\$0.00	\$2,759.40
126	G241	ENH: ANALOG OPERATION	252			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
127	G50	ENH: SMARTNET OPERATION	252			\$0.00	\$481.80	\$121,413.60		\$0.00	\$121,413.60
128		SECTION TOTAL									\$682,209.36
129	****ASTRO SPECTA****	Model A7, w/Kpd & Encryt	59			\$0.00	\$0.00	\$0.00	\$250.00	\$0.00	\$14,750.00
130	T99DX	ASTRO DIG SPECTRA MOBILE SERIES	59			\$0.00	\$1,525.70	\$90,016.30		\$0.00	\$90,016.30
131	132W	35W 800 806-870 A7	59			\$0.00	\$397.85	\$23,473.15		\$0.00	\$23,473.15
132	W688	ADD: EXTERNAL EMERGENCY PUSHBUTTON	59			\$0.00	\$401.50	\$23,688.50		\$0.00	\$23,688.50
133	W432	ENH: 10 WATT AUDIO	59			\$0.00	\$10.95	\$646.05		\$0.00	\$646.05
134	G274	ENH: DES-OFB/DES-XL	59			\$0.00	\$663.57	\$39,150.63		\$0.00	\$39,150.63
135	G50	ENH: SMARTNET OPERATION	59			\$0.00	\$481.80	\$28,426.20		\$0.00	\$28,426.20
136		SECTION TOTAL									\$221,562.75
137	****MOBILE****	****TRUNK MOUNT****									
138	****MOBILE****	Model A7, w/Kpd	341			\$0.00	\$0.00	\$0.00	\$600.00	\$0.00	\$204,600.00
139	T99DX	ASTRO DIG SPECTRA MOBILE SERIES	341			\$0.00	\$1,525.70	\$520,263.70		\$0.00	\$520,263.70
140	132W	35W 800 806-870 A7	341			\$0.00	\$397.85	\$135,666.85		\$0.00	\$135,666.85
141	W688	ADD: EXTERNAL EMERGENCY PUSHBUTTON	341			\$0.00	\$40.88	\$13,940.08		\$0.00	\$13,940.08
142		SECTION TOTAL									\$204,600.00
143		SECTION TOTAL									\$204,600.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours	Labor	Material	Total	Unit	Cost	Unit	Cost	Total	Costs
			Per Unit	Hrs	Rate	Cost	\$		\$		\$	\$	
144	W4932	ENH: 10 WATT AUDIO	341	0	0	\$10.95	\$3,733.95		\$0.00		\$0.00	\$3,733.95	\$0.00
145	G241	ENH: ANALOG OPERATION	341	0	0	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
146	W4986	ENH: REMOTE MOUNT WITH 17FT CABLE	341	0	0	\$216.81	\$73,932.21		\$0.00		\$0.00	\$73,932.21	\$0.00
147	G50	ENH: SMARTNET OPERATION	341	0	0	\$481.80	\$164,293.80		\$0.00		\$0.00	\$164,293.80	\$0.00
		SECTION TOTAL											\$1,116,430.59
148		****ASTRO SPECTRA***											
149	T99DX	Model A7, w/Kcpd & Enrcptl	0	0	0	\$0.00	\$0.00		\$0.00		\$600.00	\$0.00	\$0.00
150	132W	ASTRO DIG SPECTRA MOBILE SERIES	0	0	0	\$1,525.70	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
151	G806	35W 800 808-870 A7	0	0	0	\$397.85	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
152	W688	ENH: ASTRO DIGITAL CAI	0	0	0	\$401.50	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
153	W432	ADD: EXTERNAL EMERGENCY PUSHBUTTON	0	0	0	\$40.88	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
154	G274	ENH: 10 WATT AUDIO	0	0	0	\$10.95	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
155	W496	ENH: DES-OFB/DES-XL	0	0	0	\$663.57	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
156	G50	ENH: REMOTE MOUNT WITH 17FT CABLE	0	0	0	\$216.81	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
157	G50	ENH: SMARTNET OPERATION	0	0	0	\$481.80	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
		SECTION TOTAL											\$0.00
158		*****CONTROL STATION											
159	L99DX	Local Control, w/Kcpd	79	0	0	\$0.00	\$0.00		\$0.00		\$750.00	\$59,250.00	\$0.00
160	259L	ASTRO SPECTRA	79	0	0	\$2,328.70	\$183,967.30		\$0.00		\$0.00	\$183,967.30	\$0.00
161	G241	W7 25W 800MHZ	79	0	0	\$843.15	\$66,608.85		\$0.00		\$0.00	\$66,608.85	\$0.00
162	G241	ADD: ANALOG ONLY MODE	79	0	0	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
163	L114	ADD: CLOCK VU METER	79	0	0	\$73.00	\$5,767.00		\$0.00		\$0.00	\$5,767.00	\$0.00
164	G50	ENH: SMARTNET OPERATION	79	0	0	\$481.80	\$38,062.20		\$0.00		\$0.00	\$38,062.20	\$0.00
165	TD6441	ANTENNA, 6DB 3 ELEMENT YAGI	79	0	0	\$80.30	\$6,343.70		\$0.00		\$0.00	\$6,343.70	\$0.00
166	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	3950	0	0	\$2.12	\$8,374.00		\$0.00		\$0.00	\$8,374.00	\$0.00
167	TD8814	1/2" CONNECTOR, N PLUG LDF PLTD	158	0	0	\$32.85	\$5,190.30		\$0.00		\$0.00	\$5,190.30	\$0.00
168	TD9289	CABLE WRAP, WEATHERPROOFING	79	0	0	\$27.38	\$2,163.02		\$0.00		\$0.00	\$2,163.02	\$0.00
169	RLN4264A	LIGHTNING ARRESTOR/SURGE	79	0	0	\$46.54	\$3,676.66		\$0.00		\$0.00	\$3,676.66	\$0.00
		SECTION TOTAL											\$379,403.03
171		*****SPECTRA*****											
172	L99DX	Remote Control, w/Kcpd	4	0	0	\$0.00	\$0.00		\$0.00		\$750.00	\$1,000.00	\$0.00
173	254L	ASTRO SPECTRA	4	0	0	\$2,328.70	\$9,314.80		\$0.00		\$0.00	\$9,314.80	\$0.00
174	G241	339L5-35W 800 MHZ	4	0	0	\$1,084.05	\$4,336.20		\$0.00		\$0.00	\$4,336.20	\$0.00
175	L114	ADD: ANALOG ONLY MODE	4	0	0	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
176	G50	ENH: SMARTNET OPERATION	4	0	0	\$73.00	\$292.00		\$0.00		\$0.00	\$292.00	\$0.00
177	TD6441	MOUNTING BRACKET EIA 19"	4	0	0	\$73.00	\$292.00		\$0.00		\$0.00	\$292.00	\$0.00
178	L1705	ANTENNA, 6DB 3 ELEMENT YAGI	4	0	0	\$60.30	\$241.20		\$0.00		\$0.00	\$241.20	\$0.00
179	TD8814	1/2" LDF HELIAX, POLY JKT, PER FOOT	200	0	0	\$2.12	\$424.00		\$0.00		\$0.00	\$424.00	\$0.00
180	TD9289	CABLE WRAP, WEATHERPROOFING	4	0	0	\$32.85	\$129.52		\$0.00		\$0.00	\$129.52	\$0.00
181	RLN4264A	LIGHTNING ARRESTOR/SURGE	4	0	0	\$46.54	\$186.16		\$0.00		\$0.00	\$186.16	\$0.00
182	L1751	ADAPTER, REMOTE, ASTRO DGT9000	19	0	0	\$872.35	\$16,574.65		\$0.00		\$0.00	\$16,574.65	\$0.00
183	L1752	ADAPTER, REMOTE, ASTRO DGT9000	4	0	0	\$580.35	\$2,321.40		\$0.00		\$0.00	\$2,321.40	\$0.00
		SECTION TOTAL											\$39,361.93
186		*****ASTRO SPECTRA***											
187	L99DX	Local Control, w/Kcpd & Enrcptl	51	0	0	\$0.00	\$0.00		\$0.00		\$750.00	\$38,250.00	\$0.00
188	259L	ASTRO SPECTRA	51	0	0	\$2,328.70	\$118,763.70		\$0.00		\$0.00	\$118,763.70	\$0.00
189	G241	W7 25W 800MHZ	51	0	0	\$843.15	\$43,000.65		\$0.00		\$0.00	\$43,000.65	\$0.00
190	G241	ADD: ANALOG ONLY MODE	51	0	0	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
191	L114	ADD: CLOCK VU METER	51	0	0	\$73.00	\$3,723.00		\$0.00		\$0.00	\$3,723.00	\$0.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Rev: 7/97 Project Cost Itemization Schedule		Material Unit Cost	Subcontracts Unit Cost	Total \$	Total \$	Total Costs
						Total \$	Total \$					
City and County of San Francisco												
Citywide 800MHz Radio System Project (CERS)												
Motorola Proposal for Bid No. 168												
192	G50	ENH: SMARTNET OPERATION	51	0		\$0.00	\$481.80			\$24,571.80	\$0.00	\$24,571.80
193	G274	ADD: DES OFB/DES-XL	51	0		\$0.00	\$653.57			\$33,842.07	\$0.00	\$33,842.07
194	G806	ENH: ASTRO DIGITAL CAI OPERATION	51	0		\$0.00	\$401.50			\$20,476.50	\$0.00	\$20,476.50
195	TD6441	ANTENNA, 6DB 3 ELEMENT YAGI	51	0		\$0.00	\$80.30			\$4,095.30	\$0.00	\$4,095.30
196	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	2550	0		\$0.00	\$2.12			\$5,406.00	\$0.00	\$5,406.00
197	TON8814	1/2" CONNECTOR, N PLUG LDF PLTD	102	0		\$0.00	\$32.85			\$3,350.70	\$0.00	\$3,350.70
198	TON6289	CABLE WRAP, WEATHERPROOFING	51	0		\$0.00	\$27.38			\$1,396.38	\$0.00	\$1,396.38
199	RLN4264A	LIGHTNING ARRESTOR /SURGE	51	0		\$0.00	\$46.54			\$2,373.54	\$0.00	\$2,373.54
SECTION TOTAL												
200												\$299,249.64
201	****ASTRO SECTRA***	Remote Control, w/Kpd & Encrypt	15	0		\$0.00	\$0.00		\$750.00	\$0.00	\$0.00	\$11,250.00
202	L99DX	ASTRO SPECTRA	15	0		\$0.00	\$2,328.70			\$34,930.50	\$0.00	\$34,930.50
203	254L	339L5-35W/600MHZ	15	0		\$0.00	\$1,084.05			\$16,260.75	\$0.00	\$16,260.75
204	L114	ADD: CLOCK VU METER	15	0		\$0.00	\$73.00			\$1,095.00	\$0.00	\$1,095.00
205	G274	ADD: DES OFB/DES-XL	15	0		\$0.00	\$653.57			\$9,953.55	\$0.00	\$9,953.55
206	G806	ENH: ASTRO DIGITAL CAI OPERATION	15	0		\$0.00	\$401.50			\$6,022.50	\$0.00	\$6,022.50
207	G50	ENH: SMARTNET OPERATION	15	0		\$0.00	\$481.80			\$7,227.00	\$0.00	\$7,227.00
208	TRN7466	MOUNTING BRACKET EIA 19"	15	0		\$0.00	\$73.00			\$1,095.00	\$0.00	\$1,095.00
209	TD6441	ANTENNA, 6DB 3 ELEMENT YAGI	15	0		\$0.00	\$80.30			\$1,204.50	\$0.00	\$1,204.50
210	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	750	0		\$0.00	\$2.12			\$1,590.00	\$0.00	\$1,590.00
211	TON8814	1/2" CONNECTOR, N PLUG LDF PLTD	30	0		\$0.00	\$32.85			\$985.50	\$0.00	\$985.50
212	TON6289	CABLE WRAP, WEATHERPROOFING	30	0		\$0.00	\$27.38			\$821.40	\$0.00	\$821.40
213	RLN4264A	LIGHTNING ARRESTOR /SURGE	30	0		\$0.00	\$46.54			\$1,396.20	\$0.00	\$1,396.20
214	L1751	DESKSET, REMOTE, ASTRO DGT9000	15	0		\$0.00	\$872.35			\$13,085.25	\$0.00	\$13,085.25
215	L1752	ADAPTER, REMOTE, ASTRO DGT9000	15	0		\$0.00	\$580.35			\$8,705.25	\$0.00	\$8,705.25
SECTION TOTAL												
216												\$115,622.40
217	****ACCESSORIES****											
218	****PORTABLE****											
219	NTN7147	BATTERY, FMIS, ULTRA-HIGH CAP	142	0		\$0.00	\$110.96			\$15,756.32	\$0.00	\$15,756.32
220	NTN1171	CHARGER, 110V SINGLE COMPACT	150	0		\$0.00	\$65.70			\$9,855.00	\$0.00	\$9,855.00
221	NTN1177	CHARGER, 110V MULTI RAPID	152	0		\$0.00	\$492.75			\$74,898.00	\$0.00	\$74,898.00
222	NNM6191	AUDIO ACC. REMOTE SPEAKER/MIC	1227	0		\$0.00	\$67.16			\$82,405.32	\$0.00	\$82,405.32
223	NTN731B	CARRY ACC. BELT CLIP 3"	616	0		\$0.00	\$10.95			\$6,745.20	\$0.00	\$6,745.20
224	NTN8038	CASE, 3.0" HI ACTIVITY ULTRA HI CAP	1191	0		\$0.00	\$43.80			\$52,165.80	\$0.00	\$52,165.80
225	NAF5037	ANT. 1/2 WAVELENGTH WHIP	1237	0		\$0.00	\$24.09			\$29,799.33	\$0.00	\$29,799.33
SECTION TOTAL												
226												\$271,624.97
227	****PORTABLE****											
228	NTN8295	BATTERY, NICAD ULTRA HI CAP FM	657	0		\$0.00	\$137.97			\$90,646.29	\$0.00	\$90,646.29
229	NTN1168	CHARGER, 110V SINGLE ENH	260	0		\$0.00	\$91.25			\$23,725.00	\$0.00	\$23,725.00
230	NTN1177	CHARGER, 110V MULTI RAPID	241	0		\$0.00	\$492.75			\$119,752.75	\$0.00	\$119,752.75
231	NNM6191	AUDIO ACC. REMOTE SPEAKER/MIC	1682	0		\$0.00	\$67.16			\$111,619.92	\$0.00	\$111,619.92
232	NTN8266	ATTACHMENT, REMOVEABLE BELT CLIP	514	0		\$0.00	\$7.30			\$3,752.20	\$0.00	\$3,752.20
233	NTN8381	CASE, CARRY HIGH ACTIVITY	0	0		\$0.00	\$43.80			\$0.00	\$0.00	\$0.00
234	NTN8386	CASE, CARRY HIGH ACTIVITY	1642	0		\$0.00	\$43.80			\$71,919.60	\$0.00	\$71,919.60
235	NAF5037	ANT. 1/2 WAVELENGTH WHIP	1682	0		\$0.00	\$24.09			\$40,037.58	\$0.00	\$40,037.58
SECTION TOTAL												
236												\$460,453.34
237	****PORTABLE****											
238	NTN7058	BATTERY, ULTRA HI CAP RUGGEDIZED	115	0		\$0.00	\$113.15			\$13,012.25	\$0.00	\$13,012.25
239	NTN4734	CHARGER, DESKTOP SINGLE UNIT 117V	25	0		\$0.00	\$164.98			\$4,124.50	\$0.00	\$4,124.50

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Material		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours	Per Unit	Total	Labor Hrs	Rate	Total \$	Unit Cost	Total \$	Unit Cost	Total \$	Unit Cost	Total \$
240	NTN4796	CHARGER DESKTOP MULTIMETER UNIT 117V	20						\$0.00	\$575.24	\$11,504.80		\$0.00		\$11,504.80
241	NIM6217	MICROPHONE, REMOTE SPEAKER	250						\$0.00	\$102.93	\$25,732.50		\$0.00		\$25,732.50
242	NTN7309	BELT CLIP ATTACHMENT, REMOVABLE	230						\$0.00	\$16.79	\$3,861.70		\$0.00		\$3,861.70
243	NTN7573	CARRY CASE, LEATHER SWIVEL SNAP	0						\$0.00	\$45.99	\$0.00		\$0.00		\$0.00
244	NAF5037	ANT, 1/2 WAVELENGTH WHIP	230						\$0.00	\$24.09	\$5,540.70		\$0.00		\$5,540.70
245	RVN168P	Software / Manuals - MCS, MITS, XITS, SABER, ASTRO SPECTRA	1						\$0.00	\$27,243.41	\$27,243.41		\$0.00		\$27,243.41
246		SECTION TOTAL													
247		SUBSCRIBER TOTAL													
248		4. Radios Sites													
249		Site 1: Central Radio Site (CRS) --	1						\$32,699.50	\$0.00	\$0.00		\$1,617,368.00		\$1,617,368.00
250		** SmartZone Controller **													
251	TS396D	FT ZONE CONTROLLER	1						\$0.00	\$261,376.50	\$261,376.50		\$0.00		\$261,376.50
252	D150	ADD: ALARM OUTPUTS	1						\$0.00	\$6,409.40	\$6,409.40		\$0.00		\$6,409.40
253	D943	ENH: EXPANDED RAM	1						\$0.00	\$39,712.00	\$39,712.00		\$0.00		\$39,712.00
254	D698	ENH: RADIO DISPATCH MGMT	1						\$0.00	\$15,330.00	\$15,330.00		\$0.00		\$15,330.00
255	D699	ENH: DYNAMIC REGROUPING	1						\$0.00	\$11,680.00	\$11,680.00		\$0.00		\$11,680.00
256	D785	ENH: AIR TRAFFIC INFORMATION	1						\$0.00	\$6,570.00	\$6,570.00		\$0.00		\$6,570.00
257	D787	ENH: LICENSE, MULTIPLE APPLICATIONS	1						\$0.00	\$3,650.00	\$3,650.00		\$0.00		\$3,650.00
258	D997	ENH: CRITICAL USER SUPPORT	1						\$0.00	\$10,950.00	\$10,950.00		\$0.00		\$10,950.00
259	D341	ENH: STATUS/MESSAGE	1						\$0.00	\$7,300.00	\$7,300.00		\$0.00		\$7,300.00
260	D41	ENH: DYNAMIC SHARED SERVICES	1						\$0.00	\$5,475.00	\$5,475.00		\$0.00		\$5,475.00
261	D51	ENH: SYS/CHNL UTIL TRACKING	1						\$0.00	\$3,650.00	\$3,650.00		\$0.00		\$3,650.00
262	D52	ENH: ZONE WATCH/GRID SCREEN	1						\$0.00	\$32,850.00	\$32,850.00		\$0.00		\$32,850.00
263	Z742	ENH: ZONEWATCH AFFILIATION DIS	1						\$0.00	\$7,300.00	\$7,300.00		\$0.00		\$7,300.00
264	D802	ADD: DIGITAL OPERATION	1						\$0.00	\$36,500.00	\$36,500.00		\$0.00		\$36,500.00
265	D980	ENH: SZM BASIC CADT & COMPUTER	1						\$0.00	\$70,080.00	\$70,080.00		\$0.00		\$70,080.00
266	D999	ENH: LICENSE SECURITY PARTITIONING	1						\$0.00	\$17,520.00	\$17,520.00		\$0.00		\$17,520.00
267	TS478C	SPARE BOARDS SET W/28MB CPU	1						\$0.00	\$104,871.80	\$104,871.80		\$0.00		\$104,871.80
268	TLN3276	6-FAN COLLING ASSEMBLY (HT)	1						\$0.00	\$3,204.70	\$3,204.70		\$0.00		\$3,204.70
269	TLN6117	ETHERNET INTERFACE MODULE (HT)	1						\$0.00	\$5,956.80	\$5,956.80		\$0.00		\$5,956.80
270	TKN9038	CABLE ZC TO MBX 50'	1						\$0.00	\$53.29	\$53.29		\$0.00		\$53.29
271	TKN9040	CABLE ZC TO AUDIO SWITCH 50'	2						\$0.00	\$89.05	\$178.12		\$0.00		\$178.12
272	TKN9256	CABLE RJ45-DB25MALE STRAIGHT 25ASY	1						\$0.00	\$29.93	\$29.93		\$0.00		\$29.93
273		** Trunked Terminals **													
274	T5510	FIRST 6-SESSION USER SERVER	1						\$0.00	\$56,210.00	\$56,210.00		\$0.00		\$56,210.00
275	D955AB	ENH: LICENSE, E-MAIL 6 USER	1						\$0.00	\$2,628.00	\$2,628.00		\$0.00		\$2,628.00
276	T5511	ADDDT 6-SESSION USER SERVER	1						\$0.00	\$48,180.00	\$48,180.00		\$0.00		\$48,180.00
277	D955AB	ENH: LICENSE, E-MAIL 6 USER	1						\$0.00	\$2,628.00	\$2,628.00		\$0.00		\$2,628.00
278	T5719	HIGH-TIER DATABASE SERV-NEW	1						\$0.00	\$48,180.00	\$48,180.00		\$0.00		\$48,180.00
279	CLN6662	17" COLOR MONITOR, 110/220V	1						\$0.00	\$1,314.00	\$1,314.00		\$0.00		\$1,314.00
280	T5516	ZONE MANAGER USER TERMINAL, 17" REM	6						\$0.00	\$4,161.00	\$24,966.00		\$0.00		\$24,966.00
281	CDN1315	ACCESSBLDR BASE UNIT-ETHRNT	1						\$0.00	\$1,963.70	\$1,963.70		\$0.00		\$1,963.70
282	CDN1318	8 PORT HI SPEED ASYNC MODULE	1						\$0.00	\$1,931.58	\$1,931.58		\$0.00		\$1,931.58
283	CLN6666	64KBP'S NEST CARD-RM16M	6						\$0.00	\$773.80	\$4,642.80		\$0.00		\$4,642.80
284	CLN1178	RM16M MODULE SHELF 110V	1						\$0.00	\$1,795.80	\$1,795.80		\$0.00		\$1,795.80
285	CLN6660	64KBP'S COMM DEVICE 110V	6						\$0.00	\$2,336.00	\$14,016.00		\$0.00		\$14,016.00
286	TTN6100	PRINTER 9600BPS 110V	6						\$0.00	\$511.00	\$3,066.00		\$0.00		\$3,066.00
287	CLN6664	BACK-UP CD MEDIUM UNIX 9.05	1						\$0.00	\$29.20	\$29.20		\$0.00		\$29.20
288	TKN9113	CBL 10' 2M USER SERVER TO MODEM	6						\$0.00	\$511.00	\$3,066.00		\$0.00		\$3,066.00
289	CKN6139	25CBL TERM TO PRTR-PARALLEL	6						\$0.00	\$43.80	\$262.80		\$0.00		\$262.80
290		** Telco Interconnect **													

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours	Labor	Total	Material	Total	Unit	Cost	Total	Cost	
			Per Unit	Total	Hrs	\$	Unit	\$		\$	\$	\$	
291	TDN8677A	CARD, PHONE LINE INTERFACE (PLIC)	2	0	0	\$0.00	\$1,971.00	\$3,942.00		\$0.00	\$3,942.00	\$0.00	
292	TDN8679A	MODULE, DID FOR MBX	5	0	0	\$0.00	\$1,284.80	\$6,424.00		\$0.00	\$6,424.00	\$0.00	
293	TDN8680A	CARD, TRUNKED REPEATER INTERFACE	1	0	0	\$0.00	\$4,102.60	\$4,102.60		\$0.00	\$4,102.60	\$0.00	
294	TDN8693A	BASIC SPARES KIT FOR MBX	1	0	0	\$0.00	\$14,183.90	\$14,183.90		\$0.00	\$14,183.90	\$0.00	
295	TDN8688A	SINGLE SHELF, MBX COMMON EQUIPMENT	1	0	0	\$0.00	\$24,371.05	\$24,371.05		\$0.00	\$24,371.05	\$0.00	
296	TDN8671A	LICENSE, CONVERSION SOFTWARE	1	0	0	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	
297	TDN8681A	POWER SUPPLY, 110VAC 60HZ, MBX	1	0	0	\$0.00	\$3,504.00	\$3,504.00		\$0.00	\$3,504.00	\$0.00	
298	TDN8685A	110VAC DISTRIBUTION PANEL, MBX	1	0	0	\$0.00	\$438.00	\$438.00		\$0.00	\$438.00	\$0.00	
299	TDN8834A	SYSTEM INTEGRATION	1	0	0	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	
300	TDN8691A	BLOWER, 110VAC 60HZ FOR MBX	1	0	0	\$0.00	\$328.50	\$328.50		\$0.00	\$328.50	\$0.00	
301	TDN8687	CABINET SHORT VENTED	1	0	0	\$0.00	\$985.50	\$985.50		\$0.00	\$985.50	\$0.00	
302	TDN8699A	SPARE TRIC ASSEMBLY FOR MBX	2	0	0	\$0.00	\$4,102.60	\$8,205.20		\$0.00	\$8,205.20	\$0.00	
303	TKN8634	100' CABLE MBX TO PUNCHBLOCK	1	0	0	\$0.00	\$124.10	\$124.10		\$0.00	\$124.10	\$0.00	
304	*****	** Audio Switch **											
305	B1842 C	GOLD SERIES AEB 3 CARD CAGE	1	0	0	\$0.00	\$50,503.59	\$50,503.59		\$0.00	\$50,503.59	\$0.00	
306	K762BE	ADD: EXT PERF 3 CC GOLD AEB	1	0	0	\$0.00	\$963.60	\$963.60		\$0.00	\$963.60	\$0.00	
307	K994AJ	ADD: ONE GOLD SERIES AMB CARD	6	0	0	\$0.00	\$9,744.77	\$58,468.62		\$0.00	\$58,468.62	\$0.00	
308	X762AB	ADD: REDUNDANT ZONE INTERFACE	1	0	0	\$0.00	\$19,488.81	\$19,488.81		\$0.00	\$19,488.81	\$0.00	
309	X999AJ	ADD: ASTRO SMARTZONE LICENSE	1	0	0	\$0.00	\$18,250.00	\$18,250.00		\$0.00	\$18,250.00	\$0.00	
310	X758AA	ADD: SMARTZONE GOLD AEB SPARES	1	0	0	\$0.00	\$13,364.11	\$13,364.11		\$0.00	\$13,364.11	\$0.00	
311	B1843	GOLD SERIES ZAMBI BOARD	1	0	0	\$0.00	\$9,744.77	\$9,744.77		\$0.00	\$9,744.77	\$0.00	
312	B1846	GOLD AEB RDMT AEB POWER SUPPLY	1	0	0	\$0.00	\$4,818.00	\$4,818.00		\$0.00	\$4,818.00	\$0.00	
313	*****	** TeNsr Network Server **											
314	DSPREM891B	UNIVERSAL ENCLOSURE TENS/600	1	0	0	\$0.00	\$1,095.00	\$4,380.00		\$0.00	\$4,380.00	\$0.00	
315	DSPREM8902	DC POWER SUPPLY 48 VDC	8	0	0	\$0.00	\$912.50	\$7,300.00		\$0.00	\$7,300.00	\$0.00	
316	DSPREM8920	INTERFACE CARDS, 8 T1/E1 INTFC	4	0	0	\$0.00	\$1,642.50	\$6,570.00		\$0.00	\$6,570.00	\$0.00	
317	DSPREM8801	CPU CNTRL CARD W/2 T1/E1, RED 256	8	0	0	\$0.00	\$4,106.25	\$32,850.00		\$0.00	\$32,850.00	\$0.00	
318	DSPREM8870	SERVER CARD, ADPCM	2	0	0	\$0.00	\$5,748.75	\$11,497.50		\$0.00	\$11,497.50	\$0.00	
319	DSPREM8014	WAN CARD, DUAL T1/E1 INTERFACE	4	0	0	\$0.00	\$1,781.20	\$7,124.80		\$0.00	\$7,124.80	\$0.00	
320	DSPREM8010	WAN CARD, DUAL T1/E1 INTERFACE	4	0	0	\$0.00	\$1,551.25	\$6,205.00		\$0.00	\$6,205.00	\$0.00	
321	DSPREM812	CSU PLUG IN MODULE	16	0	0	\$0.00	\$912.50	\$14,600.00		\$0.00	\$14,600.00	\$0.00	
322	DSPREM8119	VOICE CARD, 8 PORT, 4 WIRE E8/M10	11	0	0	\$0.00	\$1,368.75	\$15,056.25		\$0.00	\$15,056.25	\$0.00	
323	DSPREM8220	DATA CARD, 10 PORT RS232C SUB-RATE	6	0	0	\$0.00	\$2,190.00	\$13,140.00		\$0.00	\$13,140.00	\$0.00	
324	*****	** DIU / Data Broadcast **											
325	CHN1009	CARD/CAGE, DIU 3000	6	0	0	\$0.00	\$219.00	\$1,314.00		\$0.00	\$1,314.00	\$0.00	
326	F2048	ASTRO DIU3000 HARDWARE	22	0	0	\$0.00	\$2,127.95	\$46,814.90		\$0.00	\$46,814.90	\$0.00	
327	X806	ENH: ASTRO CAI OPERATION	22	0	0	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	
328	X806	ADD: TRUNKING RELEASE SW	22	0	0	\$0.00	\$2,529.45	\$55,647.90		\$0.00	\$55,647.90	\$0.00	
329	C28	ADD: BATTERY REVERT CABLE	22	0	0	\$0.00	\$64.24	\$1,413.28		\$0.00	\$1,413.28	\$0.00	
330	T5771	ASTRO DES-OFB ENC CARTRIDGE	5	0	0	\$0.00	\$546.77	\$2,733.85		\$0.00	\$2,733.85	\$0.00	
331	FLN8841	BLANK PANEL, DIU3000	1	0	0	\$0.00	\$21.17	\$21.17		\$0.00	\$21.17	\$0.00	
332	FLN8840	CENTER PANEL, DIU3000 CARD/CAGE	6	0	0	\$0.00	\$18.25	\$109.50		\$0.00	\$109.50	\$0.00	
333	CDN6209	BLACK TEST HANDSET, DIU3000	1	0	0	\$0.00	\$40.15	\$40.15		\$0.00	\$40.15	\$0.00	
334	BLN6200	6 OUTLET AC POWER STRIP	1	0	0	\$0.00	\$68.62	\$68.62		\$0.00	\$68.62	\$0.00	
335	RVN4053	RSS, ASTRO DIG INTERFACE UNIT	1	0	0	\$0.00	\$255.50	\$255.50		\$0.00	\$255.50	\$0.00	
336	3080385B23	PROGRAM CABLE, T5600/75620 SERIES	1	0	0	\$0.00	\$4.85	\$4.85		\$0.00	\$4.85	\$0.00	
337	5880385B30	ADAPTER, 8 PIN MODULAR TO DB25	1	0	0	\$0.00	\$15.15	\$15.15		\$0.00	\$15.15	\$0.00	
338	DQDGL158AR2	GDTL158AR2	10	0	0	\$0.00	\$354.78	\$3,547.80		\$0.00	\$3,547.80	\$0.00	
339	DQDGL1486	RACK F/IDATA BROADCAST BOX	10	0	0	\$0.00	\$21.90	\$219.00		\$0.00	\$219.00	\$0.00	
340	FKN4120A	25' CABLE DB TO DIU	32	0	0	\$0.00	\$18.62	\$595.84		\$0.00	\$595.84	\$0.00	
341	TKN9037A	25' CABLE ZC TO DB	2	0	0	\$0.00	\$41.61	\$83.22		\$0.00	\$83.22	\$0.00	
342	*****	Simulcast Prime Equipment											

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs	Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
							Total \$	Total \$				
City and County of San Francisco												
Clywilde 800MHz Radio System Project (CFRS)												
Motorola Proposal for Bid No. 168												
** Prime Controllers **												
343	*****	SMARTNET I/28 CHNL CENTRAL	1				\$0.00	\$40,966.14		\$40,966.14	\$0.00	\$40,966.14
344	T5272	ADD: 21 CHANNEL CAPACITY	1				\$0.00	\$16,650.57		\$16,650.57	\$0.00	\$16,650.57
345	D611	ENH: SIMULCAST PRIME SITE OPERATION	1				\$0.00	\$839.50		\$839.50	\$0.00	\$839.50
346	D422 A	ADD: 5 RS232 PORTS	1				\$0.00	\$13,161.17		\$13,161.17	\$0.00	\$13,161.17
347	D590	ENH: MANUAL, PRIME SITE CONTROLLER	1				\$0.00	\$40.15		\$40.15	\$0.00	\$40.15
348	D555	ADD: REDUNDANT CONTROLLER INTERFACE	1				\$0.00	\$1,987.79		\$1,987.79	\$0.00	\$1,987.79
349	D389	ADD: SPARE BOARD FOR SIMUL PRIME	1				\$0.00	\$13,691.15		\$13,691.15	\$0.00	\$13,691.15
350	D179BJ	ADD: SMARTNET+ CTLR SVC/DEPOT MAN	1				\$0.00	\$54.75		\$54.75	\$0.00	\$54.75
351	D396	ALT: CABLE, 50'	1				\$0.00	\$94.90		\$94.90	\$0.00	\$94.90
352	D118	ADD: 50 FT. RPTR INTERCONNECT CABLE	2				\$0.00	\$104.39		\$208.78	\$0.00	\$208.78
353	D404	ENH: SMARTZONE OPER SIMULCAST PRIME	1				\$0.00	\$2,007.50		\$2,007.50	\$0.00	\$2,007.50
354	D786	ADD: ASTRO 2.0.3 MIXED MODE	1				\$0.00	\$4,708.50		\$4,708.50	\$0.00	\$4,708.50
355	Z389	SOFTWARE, PROGRAMMING ACCESS, 3.5"	1				\$0.00	\$547.50		\$547.50	\$0.00	\$547.50
356	TDN8668	EXTENDER BOARD AND HARDWARE	1				\$0.00	\$462.09		\$462.09	\$0.00	\$462.09
357	TENG081	SMARTNET I/28 CHNL CENTRAL	1				\$0.00	\$40,966.14		\$40,966.14	\$0.00	\$40,966.14
358	T5272	ADD: 21 CHANNEL CAPACITY	1				\$0.00	\$16,650.57		\$16,650.57	\$0.00	\$16,650.57
359	D611	ENH: SIMULCAST PRIME SITE OPERATION	1				\$0.00	\$839.50		\$839.50	\$0.00	\$839.50
360	D422 A	ADD: 5 RS232 PORTS	1				\$0.00	\$13,161.17		\$13,161.17	\$0.00	\$13,161.17
361	D590	ENH: MANUAL, PRIME SITE CONTROLLER	1				\$0.00	\$40.15		\$40.15	\$0.00	\$40.15
362	D555	ADD: REDUNDANT CONTROLLER INTERFACE	1				\$0.00	\$1,987.79		\$1,987.79	\$0.00	\$1,987.79
363	D389	ADD: SMARTNET+ CTLR SVC/DEPOT MAN	1				\$0.00	\$54.75		\$54.75	\$0.00	\$54.75
364	D396	ALT: CABLE, 50'	1				\$0.00	\$94.90		\$94.90	\$0.00	\$94.90
365	D786	ADD: SMARTZONE OPER SIMULCAST PRIME	1				\$0.00	\$2,007.50		\$2,007.50	\$0.00	\$2,007.50
366	Z389	ADD: ASTRO 2.0.3 MIXED MODE	1				\$0.00	\$4,708.50		\$4,708.50	\$0.00	\$4,708.50
367	*****	** TBAW / Switch **										
368	DS58022	FRAME MASTER, 20 CHANNEL	3				\$0.00	\$1,131.50		\$3,394.50	\$0.00	\$3,394.50
369	DS580330	PS 115VAC	2				\$0.00	\$912.50		\$1,825.00	\$0.00	\$1,825.00
370	DS58083	POWER ALARM, REDUNDANT	1				\$0.00	\$912.50		\$912.50	\$0.00	\$912.50
371	DS58522	POWER CABLE, 58033, P/S 2'	2				\$0.00	\$54.75		\$109.50	\$0.00	\$109.50
372	DS58193	POWER CABLE FRAME, 3.0'	1				\$0.00	\$31.94		\$31.94	\$0.00	\$31.94
373	DS58063	CABLE, POWER, 3.0' FRAME	2				\$0.00	\$39.24		\$78.48	\$0.00	\$78.48
374	DS58186	POWER CABLE 6.0' FRAME	1				\$0.00	\$33.76		\$33.76	\$0.00	\$33.76
375	DS58073	CABLE, CONTROL, 3' FRAME TO FRAME	2				\$0.00	\$22.81		\$45.62	\$0.00	\$45.62
376	DS58044	CONTROL MODULE, WITH CONTACT	1				\$0.00	\$867.24		\$867.24	\$0.00	\$867.24
377	DS58052	CONTROL MODULE, SLAVE	2				\$0.00	\$445.30		\$890.60	\$0.00	\$890.60
378	DS58104	SWITCH MODULE, A/B ONLY	40				\$0.00	\$273.75		\$10,950.00	\$0.00	\$10,950.00
379	DS78700206	CABLE, CROSSOVER	3				\$0.00	\$94.90		\$284.70	\$0.00	\$284.70
380	DS58091	BLANK MODULE	20				\$0.00	\$11.86		\$237.20	\$0.00	\$237.20
381	GLN1195	SWITCH FOR REDUNDANT/TRNK CONTR	1				\$0.00	\$2,007.50		\$2,007.50	\$0.00	\$2,007.50
382	*****	** Comparators **										
383	T5770	ASTRO CAI COMPARATOR	23				\$0.00	\$2,701.00		\$62,123.00	\$0.00	\$62,123.00
384	X242	ENH: DIGITAL AND ANALOG OPRN	23				\$0.00	\$2,044.00		\$47,012.00	\$0.00	\$47,012.00
385	X989	ENH: SZ TRUNKING OPERATION	23				\$0.00	\$3,431.00		\$78,913.00	\$0.00	\$78,913.00
386	X888	ENH: GPS SIMULCAST OPERATION	23				\$0.00	\$2,044.00		\$47,012.00	\$0.00	\$47,012.00
387	X159	ENH: REMOTE/STATUS CONTROL INTFC	23				\$0.00	\$292.00		\$6,716.00	\$0.00	\$6,716.00
388	X227	ADD: TO WIRELINE I/O PORTS-CAI	23				\$0.00	\$3,650.00		\$83,950.00	\$0.00	\$83,950.00
389	X889	ADD: ASTRO V.24 WIRELINE INTERFACE	115				\$0.00	\$385.00		\$44,197.50	\$0.00	\$44,197.50
390	X153	ADD: HARDWARE, RACK/MOUNT	23				\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
391	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	23				\$0.00	\$146.00		\$3,358.00	\$0.00	\$3,358.00
392	CDN6163	RS232 CABLE 25C 25' MM	23				\$0.00	\$29.20		\$671.60	\$0.00	\$671.60
393	TKN9264	CABLE, RJ45-RJ45 STRAIGHT 25' SYNC	23				\$0.00	\$21.90		\$503.70	\$0.00	\$503.70
394	HMN1001	TEST MICROPHONE	1				\$0.00	\$42.34		\$42.34	\$0.00	\$42.34

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	City and County of San Francisco	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Rev. 7/97		Subcontracts Unit Cost	Total \$	Total \$	Total \$	Total Costs
							Project Cost Itemization	Schedule Material					
395	HSN1000 R	Citywide 800MHz Radio System Project (CERS)	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	1	0		\$0.00	\$72.27		\$72.27	\$0.00	\$72.27	
396	TRN7738	Motorola Proposal for Bid No. 168	CABLE FOR EXTERNAL 6W SPEAKER	1	0		\$0.00	\$36.50		\$36.50	\$0.00	\$36.50	
397	RVN4154		RSS, ASTROTAC 3000 COMPARATOR	1	0		\$0.00	\$255.50		\$255.50	\$0.00	\$255.50	
398			PROGRAMMING CABLE, ASTRO COMPARATO	1	0		\$0.00	\$33.95		\$33.95	\$0.00	\$33.95	
399			** SECURE Items **										
400	T3011 X		SECURENET DESIDES-XL KEY LOADR	6	0		\$0.00	\$2,299.50		\$13,797.00	\$0.00	\$13,797.00	
401	C542		ADD: CABLE FOR CIU,DIU,PX300-S	6	0		\$0.00	\$54.75		\$328.50	\$0.00	\$328.50	
402	NLN858		BATTERY CHARGER, 1 UNIT/HOUR	6	0		\$0.00	\$163.52		\$981.12	\$0.00	\$981.12	
403	R2046		SYSTEM ANAL., EAMPS, DES, DVP, TCXO	2	0		\$0.00	\$21,644.50		\$43,289.00	\$0.00	\$43,289.00	
404			** USCI / SDA **										
405	T5160		SIMULCAST CONTROLLER I/F MODEM	3	0		\$0.00	\$3,139.00		\$9,417.00	\$0.00	\$9,417.00	
406	D525		ADD: USCI CONTROLLER INTERFACE	23	0		\$0.00	\$761.10		\$17,965.30	\$0.00	\$17,965.30	
407	D567		ADD: SCI EXTENDER CARD	1	0		\$0.00	\$69.35		\$69.35	\$0.00	\$69.35	
408	MWQ3195		DIST AMP SHELF	3	0		\$0.00	\$1,003.75		\$3,011.25	\$0.00	\$3,011.25	
409	MWQLN3174		DISTRIBUTION AMPLIFIER	23	0		\$0.00	\$401.50		\$9,234.50	\$0.00	\$9,234.50	
410			** Data Broadcast **										
411	DOGDTL158AR2		GDTL158AR2	6	0		\$0.00	\$354.78		\$2,128.68	\$0.00	\$2,128.68	
412	DOGDTL486		RACK F/IDATA BROADCAST BOX	6	0		\$0.00	\$21.90		\$131.40	\$0.00	\$131.40	
413	FKN4120A		25' CABLE DB TO DIU	27	0		\$0.00	\$18.62		\$502.74	\$0.00	\$502.74	
414	TKN9037A		25' CABLE ZC TO DB	2	0		\$0.00	\$41.61		\$83.22	\$0.00	\$83.22	
415			** TenIS Network Server **										
416	DSPREM8918		UNIVERSAL ENCLOSURE TENSIR/800	16	0		\$0.00	\$1,095.00		\$17,520.00	\$0.00	\$17,520.00	
417	DSPREM8902		DC POWER SUPPLY 48 VDC	32	0		\$0.00	\$912.50		\$29,200.00	\$0.00	\$29,200.00	
418	DSPREM8801		CPU CNTRL CARD W/2 T/IE1, RED 256	32	0		\$0.00	\$4,106.25		\$131,400.00	\$0.00	\$131,400.00	
419	DSPREM8920		INTERFACE CARDS, 8 T/IE1 INTFC	16	0		\$0.00	\$1,642.50		\$26,280.00	\$0.00	\$26,280.00	
420	DSPREM8014		WAN CARD, DUAL T/IE1 INTERFACE	16	0		\$0.00	\$1,781.25		\$28,499.20	\$0.00	\$28,499.20	
421	DSPREM8010		WAN CARD, DUAL T/IE1 INTERFACE	16	0		\$0.00	\$1,551.25		\$24,820.00	\$0.00	\$24,820.00	
422	DSPREM8712		CSU PLUG IN MODULE	64	0		\$0.00	\$912.50		\$58,400.00	\$0.00	\$58,400.00	
423	DSPREM8220		DATA CARD, 10 PORT RS232C SUB-RATE	32	0		\$0.00	\$2,190.00		\$70,080.00	\$0.00	\$70,080.00	
424	DSPREMD5M2		DIGITAL SIMULCAST MEDEMI-II	48	0		\$0.00	\$6,935.00		\$332,680.00	\$0.00	\$332,680.00	
425			** Sinto Test Equipment **										
426	RTHP4934A		TRANSMISSION IMPAIRMENT TEST SET-HP	2	0		\$0.00	\$3,285.00		\$6,570.00	\$0.00	\$6,570.00	
427			AUDIO VOLTMETER, HP3400B	1	0		\$0.00	\$2,190.00		\$2,190.00	\$0.00	\$2,190.00	
428	RTHP5060/8762		RACK ADAPTER, FULL HEIGHT HP	1	0		\$0.00	\$193.45		\$193.45	\$0.00	\$193.45	
429			OSCILLOSCOPE	1	0		\$0.00	\$3,571.89		\$3,571.89	\$0.00	\$3,571.89	
430			RACKMOUNT FOR 0180302E52	1	0		\$0.00	\$240.90		\$240.90	\$0.00	\$240.90	
431	BLN6200		6 OUTLET AC POWER STRIP	1	0		\$0.00	\$68.62		\$68.62	\$0.00	\$68.62	
432	L99ZX		SPECTRA DESKTOP STATION	1	0		\$0.00	\$3,190.00		\$3,190.00	\$0.00	\$3,190.00	
433	256L		15W 800 MHz CONVENTIONAL	1	0		\$0.00	\$843.15		\$843.15	\$0.00	\$843.15	
434	6484596T01		PLATE RACK MT	1	0		\$0.00	\$113.15		\$113.15	\$0.00	\$113.15	
435	0982578B01		CONN T	1	0		\$0.00	\$10.77		\$10.77	\$0.00	\$10.77	
436			** Racks **										
437	TRN7342		SEVEN FOOT RACK	15	0		\$0.00	\$343.10		\$5,146.50	\$0.00	\$5,146.50	
438			** Power System **										
439	DQ031497BCA		UNITY ONE 60KVA, 15 MIN UPS	1	0		\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	
440	DQSUIJ360A		SYSTEM ST-UP ZONE 1, 5XB	1	0		\$0.00	\$42,163.34		\$42,163.34	\$0.00	\$42,163.34	
441	DQTWP46S800313A		TWINPACK PLUS -48VOLT/1800AMP	1	0		\$0.00	\$1,733.75		\$1,733.75	\$0.00	\$1,733.75	
442	DS48TEL125FTR324		48V 508 A HR 4 TRAY BATTERY SYSTEM	1	0		\$0.00	\$36,978.88		\$36,978.88	\$0.00	\$36,978.88	
443	DS1029120100		CIRCUIT BREAKER PANEL	8	0		\$0.00	\$4,804.86		\$38,438.88	\$0.00	\$38,438.88	
444			20AMP BREAKER	48	0		\$0.00	\$283.24		\$13,593.12	\$0.00	\$13,593.12	
445			Co-Located Remote Equipment **										
446			** Remote Controllers **										

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours		Labor Hrs Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total Costs
			Qty	Per Unit		Total \$	Material Unit Cost			
City and County of San Francisco										
Citywide 800MHz Radio System Project (CRS)										
Motorola Proposal for Bid No. 168										
447	T5293A	SIMULCAST 28 CHAN REMOTE CONTROLLER	1	0	0	\$0.00	\$20,741.49		\$20,741.49	\$20,741.49
448	D811	ADD: 21 CHANNEL CAPACITY	1	0	0	\$0.00	\$16,650.57		\$16,650.57	\$16,650.57
449	D555	ADD: MANUAL, PRIME SITE CONTROLLER	1	0	0	\$0.00	\$40.15		\$40.15	\$40.15
450	D179	ADD: SPARE BOARDS	1	0	0	\$0.00	\$7,090.49		\$7,090.49	\$7,090.49
451	Z389	ADD: ASTRO 2.0.3 MIXED MODE	1	0	0	\$0.00	\$4,708.50		\$4,708.50	\$4,708.50
452	*****	** Repeaters **								
453	DOMFS205	GPS RX/CONTROLLER 28 CH	1	0	0	\$0.00	\$39,470.37		\$39,470.37	\$39,470.37
454	C99ED	QUANTAR/QUANTRO FAMILY	23	0	0	\$0.00	\$4,946.48		\$113,769.04	\$113,769.04
455	001C	QUANTAR/QUANTRO FAMILY	23	0	0	\$0.00	\$0.00		\$0.00	\$0.00
456	X750	ADD: 100W 800 MHZ OPERATION	23	0	0	\$0.00	\$4,609.22		\$106,012.06	\$106,012.06
457	X897 A	ENH: 528809 ASTRO CAL TRK QTAR	23	0	0	\$0.00	\$803.00		\$18,469.00	\$18,469.00
458	X337	ALT: CABLE, 50FT REPEATER	23	0	0	\$0.00	\$63.51		\$1,460.73	\$1,460.73
459	X888	ADD: GPS SIMULCAST	23	0	0	\$0.00	\$730.00		\$16,790.00	\$16,790.00
460	X889	ADD: INTFC, WIRELINE, 9.6 KB	23	0	0	\$0.00	\$385.00		\$8,395.00	\$8,395.00
461	X153	ADD: HARDWARE, RACKMOUNT	23	0	0	\$0.00	\$146.00		\$3,358.00	\$3,358.00
462	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	23	0	0	\$0.00	\$159.87		\$3,677.01	\$3,677.01
463	DSDB8862A350	BIDIRECTIONAL SENSOR	23	0	0	\$0.00	\$42.34		\$211.70	\$211.70
464	HMN1001	TEST MICROPHONE	5	0	0	\$0.00	\$72.27		\$361.35	\$361.35
465	HSN1000 R	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	5	0	0	\$0.00	\$36.50		\$182.50	\$182.50
466	TRN7298	CABLE FOR EXTERNAL 6W SPEAKER	5	0	0	\$0.00	\$36.50		\$182.50	\$182.50
467	TRN4599	DUAL PHONE LINE SUPPRESSOR	23	0	0	\$0.00	\$64.42		\$1,481.66	\$1,481.66
468	*****	** Antenna System **								
469	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	20	0	0	\$0.00	\$2.12		\$42.40	\$42.40
470	TDN8814	1/2" CONNECTOR, N PLUG LDF PLTD	12	0	0	\$0.00	\$32.85		\$394.20	\$394.20
471	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	1300	0	0	\$0.00	\$5.18		\$6,734.00	\$6,734.00
472	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	12	0	0	\$0.00	\$80.30		\$963.60	\$963.60
473	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	12	0	0	\$0.00	\$80.30		\$963.60	\$963.60
474	TDN8674	7/8" CABLE GROUND CLAMP KIT	18	0	0	\$0.00	\$24.46		\$440.28	\$440.28
475	TDN9664	7/8" SNAP-IN HANGER KIT, 10PK	30	0	0	\$0.00	\$39.42		\$1,182.60	\$1,182.60
476	TDN6672	7/8" CABLE HOISTING GRIP	6	0	0	\$0.00	\$36.50		\$219.00	\$219.00
477	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	350	0	0	\$0.00	\$3.07		\$1,074.50	\$1,074.50
478	TDN8809	1/2" CONNECTOR, N PLUG S-FLEX PLTD	6	0	0	\$0.00	\$27.38		\$1,737.88	\$1,737.88
479	TDN8289	CABLE WRAP, WEATHERPROOFING	6	0	0	\$0.00	\$27.38		\$164.28	\$164.28
480	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	350	0	0	\$0.00	\$1.39		\$486.50	\$486.50
481	TDN9714	1/4" CONN, N PLUG S-FLEX (PLTD)	23	0	0	\$0.00	\$12.23		\$281.29	\$281.29
482	TDN9715	1/4" CONN, BNC PLUG S-FLEX (PLTD)	23	0	0	\$0.00	\$10.59		\$243.57	\$243.57
483	DSTJD8008T	COMBINER, 808-1K MHZ, BNC, CAV-FER CWA	4	0	0	\$0.00	\$9,135.95		\$36,543.80	\$36,543.80
484	DSRMC80024	RMC: 808-824 MHZ, 24CH, CWA	2	0	0	\$0.00	\$3,003.95		\$6,007.90	\$6,007.90
485	RRX4039A	LIGHTNING SUPPRESSOR	6	0	0	\$0.00	\$47.45		\$284.70	\$284.70
486	DSDB8606T6TLXT	BB TPL 6 DEG DOWN TILT	2	0	0	\$0.00	\$2,536.75		\$5,073.50	\$5,073.50
487	DSDB8606T6TLXT	BIDIRECTIONAL SENSOR	4	0	0	\$0.00	\$159.87		\$639.48	\$639.48
488	*****	** Racks **	1	0	0	\$0.00	\$0.00		\$0.00	\$0.00
489	TRN7342	SEVEN FOOT RACK	9	0	0	\$0.00	\$343.10		\$3,087.90	\$3,087.90
490	*****	*****								
491	*****	*****								
492	B1827	GOLD SERIES LICENSE MANAGER	1	0	0	\$0.00	\$80.30		\$80.30	\$80.30
493	X293	ADD: GOLD ELITE OPR SFWR LIC	1	0	0	\$0.00	\$2,920.00		\$2,920.00	\$2,920.00
494	X597AE	ADD: CONVL CHAN SFWR LIC	69	0	0	\$0.00	\$146.00		\$10,074.00	\$10,074.00
495	X285	ADD: SMARTZONE ASTRO SFWR LIC	1	0	0	\$0.00	\$730.00		\$730.00	\$730.00
496	B1844	GOLD SERIES AMB BOARD	10	0	0	\$0.00	\$9,744.77		\$97,447.70	\$97,447.70
497	INVBS	ELITE API	1	0	0	\$0.00	\$18,250.00		\$18,250.00	\$18,250.00
498	B1811 D	GOLD SERIES 4 CARD CAGE CEB	5	0	0	\$0.00	\$27,221.70		\$136,108.50	\$136,108.50

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	City and County of San Francisco	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
							Total \$	Material Unit Cost				
499	K995 C	Citywide 800MHz Radio System Project (CERS)	ALT: AMI PAIR TRUNK	5	0	0.00	\$8,011.75	\$40,058.75	\$0.00	\$0.00	\$40,058.75	
500	K637AD	Motorola Proposal for Bid No. 168	ADD: EXPRESS SERVICE	5	0	0.00	\$1,449.05	\$7,245.25	\$0.00	\$0.00	\$7,245.25	
501	K665		ADD: DIAGNOSTIC INTERFACE	8	0	0.00	\$217.54	\$1,740.32	\$0.00	\$0.00	\$1,740.32	
502	B1840		GOLD BASE INFC-MODULE	51	0	0.00	\$634.37	\$32,352.87	\$0.00	\$0.00	\$32,352.87	
503	K48BP		ADD: SUPERVISORY TAKE-OVER RELAY	51	0	0.00	\$59.13	\$3,015.63	\$0.00	\$0.00	\$3,015.63	
504	K146AB		ENH: RETAIN TONE REMOTE CONTROL	51	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
505	B1840		GOLD BASE INFC-MODULE	18	0	0.00	\$634.37	\$11,418.66	\$0.00	\$0.00	\$11,418.66	
506	K48BP		ADD: SUPERVISORY TAKE-OVER RELAY	18	0	0.00	\$59.13	\$1,064.34	\$0.00	\$0.00	\$1,064.34	
507	K146AB		ENH: RETAIN TONE REMOTE CONTROL	18	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
508	Q3304		WWW BIM	1	0	0.00	\$1,007.40	\$1,007.40	\$0.00	\$0.00	\$1,007.40	
509	DOOPT1		ADD: SUPERVISORY TAKE-OVER RELAY	1	0	0.00	\$1,971.00	\$1,971.00	\$0.00	\$0.00	\$1,971.00	
510	DOOPT1		WWW RECEIVER WIRS232	1	0	0.00	\$168.63	\$168.63	\$0.00	\$0.00	\$168.63	
511	DQ8208		19" RACK MOUNT	1	0	0.00	\$267.91	\$267.91	\$0.00	\$0.00	\$267.91	
512	DQ8213		ANTENNA	1	0	0.00	\$60.59	\$60.59	\$0.00	\$0.00	\$60.59	
513	DN1218		ANTENNA MOUNT	1	0	0.00	\$576.70	\$576.70	\$0.00	\$0.00	\$576.70	
514	DN1113		LINKBUILDER FMS II 12-PORT	5	0	0.00	\$16.79	\$83.95	\$0.00	\$0.00	\$83.95	
515	CDN6210		ETHERNET CABLE, 60'	4	0	0.00	\$1,269.47	\$5,077.88	\$0.00	\$0.00	\$5,077.88	
516	CDN6213		SINGLE PORT WAN BRIDGE	4	0	0.00	\$83.22	\$332.88	\$0.00	\$0.00	\$332.88	
517	B1822		V.35 CABLE MALE/MALE 20FT	4	0	0.00	\$6,945.95	\$6,945.95	\$0.00	\$0.00	\$6,945.95	
518	K811AB		GOLD SERIES ELITE/CRT DESKTOP	1	0	0.00	\$85.41	\$85.41	\$0.00	\$0.00	\$85.41	
519	K570		ALT: MICROPHONE, DESK	1	0	0.00	\$160.60	\$160.60	\$0.00	\$0.00	\$160.60	
520	K704AA		ADD: HEADSET JACK	1	0	0.00	\$160.60	\$160.60	\$0.00	\$0.00	\$160.60	
521	K572AF		ADD: SECOND HEADSET JACK	1	0	0.00	\$70.08	\$70.08	\$0.00	\$0.00	\$70.08	
522	BDN6881		ADD: FOOTSWITCH	1	0	0.00	\$261.34	\$261.34	\$0.00	\$0.00	\$261.34	
523	TDN9927		HEADSET, STARSET II WIPTT	1	0	0.00	\$3,149.95	\$3,149.95	\$0.00	\$0.00	\$3,149.95	
524	TDN1165		HP PENT CPU 100MZ CD ETH WINNT	1	0	0.00	\$1,565.85	\$1,565.85	\$0.00	\$0.00	\$1,565.85	
525	TDN8154		TOUCHSCREEN MONITOR 17"	1	0	0.00	\$481.07	\$481.07	\$0.00	\$0.00	\$481.07	
526	INVJAA01		ML320T EPSON PRINTER	1	0	0.00	\$1,460.00	\$1,460.00	\$0.00	\$0.00	\$1,460.00	
527			PUC	1	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
528			*****CRS*****									
529	SPQ34BCA0096		*****MOSCAD FAULT MANAGER*****									
530	V511ABSP		DATA CENTRAL APPLICATION	1	0	0.00	\$803.00	\$803.00	\$0.00	\$0.00	\$803.00	
531	SPQ34BCA		ADD: DEVELOPMENT LABOR 2	1	0	0.00	\$903.00	\$903.00	\$0.00	\$0.00	\$903.00	
532	V511AXSP		GRAPHIC MASTER GUST DATA BASE PROG	1	0	0.00	\$73.00	\$73.00	\$0.00	\$0.00	\$73.00	
533	V511AXSP		ADD: DEVELOPMENT LABOR	22	0	0.00	\$73.00	\$1,606.00	\$0.00	\$0.00	\$1,606.00	
534	V511AXSP		ADD: DEVELOPMENT QUANTAR ALARMING	246	0	0.00	\$36.50	\$8,979.00	\$0.00	\$0.00	\$8,979.00	
535	V511AXSP		ADD: DEVELOPMENT LABOR QUANTAR RSS	246	0	0.00	\$73.00	\$17,958.00	\$0.00	\$0.00	\$17,958.00	
536	V511AXSP		ADD: DEVELOPMENT LABOR PREMISYS	44	0	0.00	\$36.50	\$1,606.00	\$0.00	\$0.00	\$1,606.00	
537	V511AXSP		ADD: DEVELOPMENT LABOR EFRATOM GPS	10	0	0.00	\$36.50	\$365.00	\$0.00	\$0.00	\$365.00	
538	V511AXSP		ADD: DEVELOPMENT LABOR I/O MODULE	32	0	0.00	\$146.00	\$4,672.00	\$0.00	\$0.00	\$4,672.00	
539	V511AXSP		ADD: DEVELOPMENT LABOR HARRIS MW	36	0	0.00	\$219.00	\$7,884.00	\$0.00	\$0.00	\$7,884.00	
540	V511AXSP		ADD: DEVELOPMENT LABOR REDUNDANT	22	0	0.00	\$219.00	\$4,818.00	\$0.00	\$0.00	\$4,818.00	
541	SPQ34BCA		ADD: DEVELOPMENT LABOR 2ND LINK	17	0	0.00	\$219.00	\$3,723.00	\$0.00	\$0.00	\$3,723.00	
542	V511AXSP		MOSCAD FRONT END PROCESSOR APPLICAT	1	0	0.00	\$73.00	\$73.00	\$0.00	\$0.00	\$73.00	
543	SPQ34BCA0105		ADD: DEVELOPMENT LABOR PER SITE	17	0	0.00	\$530.75	\$9,022.75	\$0.00	\$0.00	\$9,022.75	
544	SPQ34BCA0113		DATA ENG SVC (IN HOUSE 5 DAY)	5	0	0.00	\$6,022.50	\$30,112.50	\$0.00	\$0.00	\$30,112.50	
545	SPQ34BCA0099		DATA ENG SVC (ONSITE 3 DAY Z1)	4	0	0.00	\$5,767.00	\$23,068.00	\$0.00	\$0.00	\$23,068.00	
546	V511AFSP		DETAILED SYSTEM IMPLEMENTATION	1	0	0.00	\$903.00	\$903.00	\$0.00	\$0.00	\$903.00	
547	SPQ34BCA0101		ADD: DEVELOPMENT LABOR 6	3	0	0.00	\$4,015.00	\$12,045.00	\$0.00	\$0.00	\$12,045.00	
548	SPQ34BCA0101		DATA ENG SVC (OPERATOR TRAINING)	1	0	0.00	\$1,204.50	\$1,204.50	\$0.00	\$0.00	\$1,204.50	
549	SPQ34BCA0101		DATA ENG SVC (M.A. TRAINING)	1	0	0.00	\$1,204.50	\$1,204.50	\$0.00	\$0.00	\$1,204.50	
550	8602991G90		DATA ENG SVC (SYS OPER/MAN. SET)	1	0	0.00	\$1,204.50	\$1,204.50	\$0.00	\$0.00	\$1,204.50	
550			MOSCAD RTU SERVICE MANUAL	17	0	0.00	\$81.76	\$1,389.92	\$0.00	\$0.00	\$1,389.92	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Total \$	Material Unit Cost	Total \$	Subcontracts Unit Cost	Total \$	Total \$	Total Costs	
551		MOSCAD GRAPHIC CENTRAL	11	0		\$0.00	\$730.00	\$8,030.00		\$8,030.00	\$0.00	\$0.00	
552	SPQ34BCA0096	DATA CENTRAL APPLICATION	11	0		\$0.00	\$730.00	\$8,030.00		\$8,030.00	\$0.00	\$0.00	
553	V511ABSP	ADD: DEVELOPMENT LABOR 2	11	0		\$0.00	\$5,475.00	\$60,225.00		\$60,225.00	\$0.00	\$0.00	
554	V511AGSP	ADD: DEVELOPMENT LABOR 7	11	0		\$0.00	\$730.00	\$8,030.00		\$8,030.00	\$0.00	\$0.00	
555	SPQ34BCA0096	DATA CENTRAL APPLICATION	11	0		\$0.00	\$365.00	\$4,015.00		\$4,015.00	\$0.00	\$0.00	
556	V511AASP	ADD: DEVELOPMENT LABOR 1	11	0		\$0.00	\$200.75	\$2,208.25		\$2,208.25	\$0.00	\$0.00	
557	DQ8209542300010	28.8 LFSTYL PC CD	11	0		\$0.00	\$94.17	\$1,035.87		\$1,035.87	\$0.00	\$0.00	
558	DQ201M	SHORT HAUL MODEM	11	0		\$0.00	\$73.00	\$803.00		\$803.00	\$0.00	\$0.00	
559	DQ209FT	SHORT HAUL MODEM	11	0		\$0.00	\$965.00	\$4,015.00		\$4,015.00	\$0.00	\$0.00	
560	FLN6457ASP96554	LINE DRIVER CABLE	11	0		\$0.00	\$9,030.00	\$8,030.00		\$8,030.00	\$0.00	\$0.00	
561	T5742	MICROSOFT EXCEL SOFTWARE	11	0		\$0.00	\$9,125.00	\$100,375.00		\$100,375.00	\$0.00	\$0.00	
562	SPQ34BCA0096	DATA CENTRAL APPLICATION	11	0		\$0.00	\$730.00	\$8,030.00		\$8,030.00	\$0.00	\$0.00	
563	V511AISP	ADD: DEVELOPMENT LABOR 9	11	0		\$0.00	\$730.00	\$8,030.00		\$8,030.00	\$0.00	\$0.00	
564	SPQ34BCA0096	DATA CENTRAL APPLICATION	3	0		\$0.00	\$2,920.00	\$8,760.00		\$8,760.00	\$0.00	\$0.00	
565	V511AESP	ADD: DEVELOPMENT LABOR 5	3	0		\$0.00	\$200.75	\$602.25		\$602.25	\$0.00	\$0.00	
566	T5739	INTOUCH RUNTIME W/IO SOFTWARE	3	0		\$0.00	\$2,920.00	\$8,760.00		\$8,760.00	\$0.00	\$0.00	
567	DQ8209542300010	28.8 LFSTYL PC CD	3	0		\$0.00	\$730.00	\$2,190.00		\$2,190.00	\$0.00	\$0.00	
568	SPQ34BCA0096	DATA CENTRAL APPLICATION	3	0		\$0.00	\$2,920.00	\$8,760.00		\$8,760.00	\$0.00	\$0.00	
569	V511AESP	ADD: DEVELOPMENT LABOR 5	3	0		\$0.00	\$3,942.00	\$11,826.00		\$11,826.00	\$0.00	\$0.00	
570	SPQ34BCA0112	DATA ENG SVC (ONSITE 2 DAY ZI)	3	0		\$0.00	\$730.00	\$3,650.00		\$3,650.00	\$0.00	\$0.00	
571	SPQ34BCA0096	DATA CENTRAL APPLICATION	5	0		\$0.00	\$5,475.00	\$27,375.00		\$27,375.00	\$0.00	\$0.00	
572	V511AGSP	ADD: DEVELOPMENT LABOR 7	5	0		\$0.00	\$200.75	\$1,003.75		\$1,003.75	\$0.00	\$0.00	
573	DQ8209542300010	28.8 LFSTYL PC CD	5	0		\$0.00	\$1,443.94	\$5,775.76		\$5,775.76	\$0.00	\$0.00	
574	F6900	MOSCAD FRONT END PROCESSOR	4	0		\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	
575	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	4	0		\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	
576	V051	ALT: NEMA TO RACKMOUNT	4	0		\$0.00	\$146.00	\$584.00		\$584.00	\$0.00	\$0.00	
577	V418	REPLACE B-SLOT MB W/8CPU+MO I/O	4	0		\$0.00	\$972.36	\$27,226.08		\$27,226.08	\$0.00	\$0.00	
578	V425	ADD: MOSCAD CPU 300	28	0		\$0.00	\$113.15	\$3,620.80		\$3,620.80	\$0.00	\$0.00	
579	V345	ADD: ASYNC RS232	32	0		\$0.00	\$693.50	\$22,208.00		\$22,208.00	\$0.00	\$0.00	
580	V120	ADD: 8 MOD W/EXPANSION MODULE	1	0		\$0.00	\$477.42	\$4,774.20		\$4,774.20	\$0.00	\$0.00	
581	V437	ADD: 6AI 5V MODULE	10	0		\$0.00	\$1,443.94	\$14,439.40		\$14,439.40	\$0.00	\$0.00	
582	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0		\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	
583	V051	ALT: NEMA TO RACKMOUNT	1	0		\$0.00	\$240.90	\$240.90		\$240.90	\$0.00	\$0.00	
584	V274	DEL: 3 AMP PS AND BATTERY	1	0		\$0.00	\$113.15	\$339.45		\$339.45	\$0.00	\$0.00	
585	V345	ADD: ASYNC RS232	3	0		\$0.00	\$277.40	\$832.20		\$832.20	\$0.00	\$0.00	
586	V380	ADD: 60 DI MODULE	2	0		\$0.00	\$375.95	\$751.90		\$751.90	\$0.00	\$0.00	
587	V516	ADD: 1600 LATCH MODULE	2	0		\$0.00	\$146.00	\$292.00		\$292.00	\$0.00	\$0.00	
588	V369	REPL: B-SLOT MB W/4CPU+4I/O	1	0		\$0.00	\$1,944.72	\$19,447.20		\$19,447.20	\$0.00	\$0.00	
589	V425	ADD: CPU 300	2	0		\$0.00	\$1,443.94	\$2,887.88		\$2,887.88	\$0.00	\$0.00	
590	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0		\$0.00	\$263.53	\$263.53		\$263.53	\$0.00	\$0.00	
591	V104	ADD: 300/1200 BPS AUTO ANSWER	1	0		\$0.00	\$113.15	\$1,131.50		\$1,131.50	\$0.00	\$0.00	
592	V345	ADD: ASYNC RS232	1	0		\$0.00	\$10.95	\$109.50		\$109.50	\$0.00	\$0.00	
593	FRN4400	FLAT OVAL 2.5M CABLE	36	0		\$0.00	\$36.50	\$1,314.00		\$1,314.00	\$0.00	\$0.00	
594	FRN5727	LAN ADAPTER ASSEMBLY	7	0		\$0.00	\$52.56	\$367.92		\$367.92	\$0.00	\$0.00	
595	FLN6457	CPU TO COMPUTER RS232 ASYNC 3M	1	0		\$0.00	\$32.85	\$32.85		\$32.85	\$0.00	\$0.00	
596	FLN8259	COMPUTER ADAPT. 9 PIN TYPE TO RJ45	1	0		\$0.00	\$210.97	\$210.97		\$210.97	\$0.00	\$0.00	
597	TDN9871	MODEM, DESKTOP, LIFESTYLE 28.8-PC	1	0		\$0.00	\$580.35	\$580.35		\$580.35	\$0.00	\$0.00	
598	TDN9263	MODEM, 14,400 BPS V.32BIS	3	0		\$0.00	\$23.36	\$70.08		\$70.08	\$0.00	\$0.00	
599	DQEVMB5M0006	MODEM CABLE	4	0		\$0.00	\$438.00	\$1,752.00		\$1,752.00	\$0.00	\$0.00	
600	F2316	MOSCAD PROGRAMMING TOOL BOX	1	0		\$0.00	\$365.00	\$365.00		\$365.00	\$0.00	\$0.00	
601	V377	ENH: 3RD PARTY DRIVER	1	0		\$0.00	\$10.95	\$109.50		\$109.50	\$0.00	\$0.00	
602	FRN5934	EXTERNAL DC PS TO MB CABLE	1	0		\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
						Total \$	Material Unit Cost				
603		Citywide 800MHz Radio System Project (CERS)									
604		Motorola Proposal for Bid No. 168									
605		** Repeater **									
606	C99ED	QUANTAR/QUANTRO CRS	10	0		\$49,464.80			\$49,464.80	\$0.00	\$49,464.80
607	001C	QUANTAR/QUANTRO OPERATION	10	0		\$0.00			\$0.00	\$0.00	\$0.00
608	X750	ADD: 100W 800 MHZ OPERATION	10	0		\$4,609.22			\$46,092.20	\$0.00	\$46,092.20
609	X597 A	ENH: CONVENTIONAL ONLY QTR	10	0		\$0.00			\$0.00	\$0.00	\$0.00
610	X590	ADD: REPEATER OPERATION	10	0		\$0.00			\$0.00	\$0.00	\$0.00
611	X153	ADD: HARDWARE, RACKMOUNT	10	0		\$0.00			\$0.00	\$0.00	\$0.00
612	X432	ADD: MANUAL SERVICE	10	0		\$146.00			\$1,460.00	\$0.00	\$1,460.00
613	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	10	0		\$146.00			\$1,460.00	\$0.00	\$1,460.00
614	DSDB8882A350	BIDIRECTIONAL SENSOR	10	0		\$159.87			\$1,598.70	\$0.00	\$1,598.70
615	HMN1001	TEST MICROPHONE	1	0		\$42.34			\$42.34	\$0.00	\$42.34
616	HSN1000 R	6W AMPLIFIED EXTERNAL SPRK-PA AUDIO	1	0		\$72.27			\$72.27	\$0.00	\$72.27
617	TRN7738	CABLE FOR EXTERNAL 6W SPEAKER	1	0		\$36.50			\$36.50	\$0.00	\$36.50
618	TRN4569	DUAL PHONE LINE SUPPRESSOR	10	0		\$64.42			\$644.20	\$0.00	\$644.20
619		** Antenna System **									
620	L1705	12" LDF HELIAX, POLY JKT, PER FOOT	40	0		\$2.12			\$84.80	\$0.00	\$84.80
621	TDN8814	12" CONNECTOR, N PLUG LDF PLTD	22	0		\$32.85			\$722.70	\$0.00	\$722.70
622	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	1200	0		\$5.18			\$6,216.00	\$0.00	\$6,216.00
623	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	22	0		\$80.30			\$1,766.60	\$0.00	\$1,766.60
624	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	22	0		\$80.30			\$1,766.60	\$0.00	\$1,766.60
625	TDN6674	7/8" CABLE GROUND CLAMP KIT	33	0		\$24.46			\$807.18	\$0.00	\$807.18
626	TDN9964	7/8" SNAP-IN HANGER KIT, 10PK	30	0		\$39.42			\$1,182.60	\$0.00	\$1,182.60
627	TDN6872	7/8" CABLE HOISTING GRIP	3	0		\$36.50			\$109.50	\$0.00	\$109.50
628	L1702	12" SUPERFLEX, POLY JKT, PER FOOT	150	0		\$3.07			\$460.50	\$0.00	\$460.50
629	TDN6809	12" CONNECTOR, N PLUG S-FLEX PLTD	36	0		\$37.78			\$1,360.08	\$0.00	\$1,360.08
630	TDN9289	CABLE WRAP, WEATHERPROOFING	11	0		\$27.38			\$301.18	\$0.00	\$301.18
631	L1700	14" SUPERFLEX, POLY JKT, PER FOOT	150	0		\$1.39			\$208.50	\$0.00	\$208.50
632	TDN9714	1/4" CONN, N PLUG S-FLEX (PLTD)	18	0		\$12.23			\$220.14	\$0.00	\$220.14
633	TDN9715	1/4" CONN, BNC PLUG S-FLEX (PLTD)	18	0		\$10.59			\$190.62	\$0.00	\$190.62
634	DSTJT8005T	XMTN COMBINER	2	0		\$6,323.26			\$12,646.52	\$0.00	\$12,646.52
635	DSTJT8002T	XMTN CAVITY CMBNR 2 FREQ	0	0		\$3,064.54			\$0.00	\$0.00	\$0.00
636	DSRMC80012	RMG 806-824MHZ, 12CH, CWA	1	0		\$2,182.70			\$2,182.70	\$0.00	\$2,182.70
637	DSRMC9004N	RMG 806-924MHZ, 4CH, CWA	0	0		\$1,549.06			\$0.00	\$0.00	\$0.00
638	RRX4039A	LIGHTNING SUPPRESSOR	4	0		\$47.45			\$189.80	\$0.00	\$189.80
639	DSDB806DXT	BB DUAL OMNI	2	0		\$1,729.37			\$3,458.74	\$0.00	\$3,458.74
640	DSDB806XT	BB OMNI	0	0		\$759.93			\$0.00	\$0.00	\$0.00
641	DSDB8882A1000	BIDIRECTIONAL SENSOR	2	0		\$159.87			\$319.74	\$0.00	\$319.74
642		** Racks **									
643	TRN7342	SEVEN FOOT RACK	5	0		\$343.10			\$1,715.50	\$0.00	\$1,715.50
644		Existing Trunk System Upgrades	1	0		\$0.00			\$0.00	\$0.00	\$0.00
645	T6432	SMARTZONE OF SIMULCAST PRIME	2	0		\$2,007.50			\$4,015.00	\$0.00	\$4,015.00
646											
647		Additional Spares									
648	T5716	REMOTE TERMINAL ACCESS SVR	1	0		\$3,358.00			\$3,358.00	\$0.00	\$3,358.00
649	Z381	ADD: 8 USER MODULE	1	0		\$1,971.00			\$1,971.00	\$0.00	\$1,971.00
650	CLN6666	64KBP'S NEST CARD-RM16M	1	0		\$773.80			\$773.80	\$0.00	\$773.80
651	CLN6660	64KBP'S COMM DEVICE 110V	0	0		\$773.80			\$0.00	\$0.00	\$773.80
652	DS580330	PS 115VAC	1	0		\$912.50			\$912.50	\$0.00	\$912.50
653	DS58044	CONTROL MODULE, WITH CONTACT	1	0		\$867.24			\$867.24	\$0.00	\$867.24
654	DS58083	POWER ALARM, REDUNDANT	1	0		\$912.50			\$912.50	\$0.00	\$912.50

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours		Labor Hrs	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
			Qty	Per Unit		Material Unit Cost	Total \$				
City and County of San Francisco											
Citywide 800MHz Radio System Project (CERS)											
Motorola Proposal for Bid No. 168											
655	DS5B052	CONTROL MODULE, SLAVE	1	0	0	\$0.00	\$445.30	\$445.30	\$0.00	\$445.30	\$445.30
656	DS5B104	SWITCH MODULE, A/B ONLY	1	0	0	\$0.00	\$273.75	\$273.75	\$0.00	\$273.75	\$273.75
657	CLN1195	SWITCH FOR REDUNDANT TRNK CONTR	1	0	0	\$0.00	\$2,007.50	\$2,007.50	\$0.00	\$2,007.50	\$2,007.50
658	CLN1161	FRU-CONTROL, COMPARTOR, TRK	1	0	0	\$0.00	\$2,336.00	\$2,336.00	\$0.00	\$2,336.00	\$2,336.00
659	CLN1165	FRU-DSP DAUGHTER BOARD	1	0	0	\$0.00	\$949.00	\$949.00	\$0.00	\$949.00	\$949.00
660	CLN1162	FRU-TPC	1	0	0	\$0.00	\$2,190.00	\$2,190.00	\$0.00	\$2,190.00	\$2,190.00
661	CLN1160	FRU-WIRELINE, COMPARTOR, TRK	1	0	0	\$0.00	\$730.00	\$730.00	\$0.00	\$730.00	\$730.00
662	TLN3262	FRU POWER SUPPLY W/ 12V DC REVERT	1	0	0	\$0.00	\$1,533.00	\$1,533.00	\$0.00	\$1,533.00	\$1,533.00
663	CLN1163	FRU-V.24 WIRJ4B	1	0	0	\$0.00	\$365.00	\$365.00	\$0.00	\$365.00	\$365.00
664	F204B	ASTRO DIU30000 HARDWARE	1	0	0	\$0.00	\$2,127.95	\$2,127.95	\$0.00	\$2,127.95	\$2,127.95
665	X806	ENH: ASTRO C&I OPERATION	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
666	X860	ADD: TRUNKING RELEASE SW.	1	0	0	\$0.00	\$2,529.45	\$2,529.45	\$0.00	\$2,529.45	\$2,529.45
667	C2B	ADD: BATTERY REVERT CABLE	1	0	0	\$0.00	\$64.24	\$64.24	\$0.00	\$64.24	\$64.24
668	T5771	ASTRO DES-OFB ENC CARTRIDGE	1	0	0	\$0.00	\$546.77	\$546.77	\$0.00	\$546.77	\$546.77
669	T5307	SPARE UNIVERSAL SCI	2	0	0	\$0.00	\$292.00	\$584.00	\$0.00	\$584.00	\$584.00
670	MVQLN3174	DISTRIBUTION AMPLIFIER	1	0	0	\$0.00	\$401.50	\$401.50	\$0.00	\$401.50	\$401.50
671	DSPREM8902	DC POWER SUPPLY 48 VDC	1	0	0	\$0.00	\$912.50	\$912.50	\$0.00	\$912.50	\$912.50
672	DSPREM8801	CPU CNTRL CARD W/2 T1/E1, RED 256	1	0	0	\$0.00	\$4,106.25	\$4,106.25	\$0.00	\$4,106.25	\$4,106.25
673	DSPREM8870	SERVER CARD, ADPCM	1	0	0	\$0.00	\$5,748.75	\$5,748.75	\$0.00	\$5,748.75	\$5,748.75
674	DSPREMDSM2	DIGITAL SIMULCAST MEDEM-II	1	0	0	\$0.00	\$6,936.00	\$6,936.00	\$0.00	\$6,936.00	\$6,936.00
675	DSPREM8119	VOICE CARD, 8 PORT, 4 WIRE E&M TO	1	0	0	\$0.00	\$1,368.75	\$1,368.75	\$0.00	\$1,368.75	\$1,368.75
676	DSPREM8920	INTERFACE CARDS; 8 T1/E1 INTFC	1	0	0	\$0.00	\$1,642.50	\$1,642.50	\$0.00	\$1,642.50	\$1,642.50
677	DSPREM8010	WAN CARD, DUAL T1/E1 INTERFACE	1	0	0	\$0.00	\$1,551.25	\$1,551.25	\$0.00	\$1,551.25	\$1,551.25
678	DSPREM8014	WAN CARD, DUAL T1/E1 INTERFACE	1	0	0	\$0.00	\$1,781.20	\$1,781.20	\$0.00	\$1,781.20	\$1,781.20
679	DSPREM812	CSU PLUG IN MODULE	1	0	0	\$0.00	\$912.50	\$912.50	\$0.00	\$912.50	\$912.50
680	DSPREM820	DATA CARD, 10 PORT RS232C SUB-RATE	1	0	0	\$0.00	\$2,190.00	\$2,190.00	\$0.00	\$2,190.00	\$2,190.00
681	DCMF5205	GPS RX/CONTROLLER 28 CH	1	0	0	\$0.00	\$39,470.37	\$39,470.37	\$0.00	\$39,470.37	\$39,470.37
682	C99ED	QUANTAR/QUANTRO FAMILY	1	0	0	\$0.00	\$4,946.48	\$4,946.48	\$0.00	\$4,946.48	\$4,946.48
683	001C	QUANTAR/QUANTRO CONFIGURATION	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
684	X750	ADD: 100W 800 MHZ OPERATION	1	0	0	\$0.00	\$803.00	\$803.00	\$0.00	\$803.00	\$803.00
685	X897 A	ENH: SZ6809 ASTR C&I TRK QTAR	1	0	0	\$0.00	\$63.51	\$63.51	\$0.00	\$63.51	\$63.51
686	X337	ALT: CABLE, 50FT REPEATER	1	0	0	\$0.00	\$730.00	\$730.00	\$0.00	\$730.00	\$730.00
687	X888	ADD: GPS SIMULCAST	1	0	0	\$0.00	\$365.00	\$365.00	\$0.00	\$365.00	\$365.00
688	X889	ADD: INTFC, WIRELINE, 9.6 KB	1	0	0	\$0.00	\$146.00	\$146.00	\$0.00	\$146.00	\$146.00
689	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
690	*****	Additional Manuals									
691		SMARTZONE 2.0.3 OVERVIEW GUIDE	20	0	0	\$0.00	\$10.95	\$219.00	\$0.00	\$219.00	\$219.00
692		SMARTZONE 2.0.3 INSTALL MANUAL	20	0	0	\$0.00	\$43.80	\$876.00	\$0.00	\$876.00	\$876.00
693		SMARTZONE MGR 2.0.3 USER MANUAL	20	0	0	\$0.00	\$91.25	\$1,825.00	\$0.00	\$1,825.00	\$1,825.00
694		MANUAL, TRUNKED SYS DUAL PATH	20	0	0	\$0.00	\$73.00	\$1,460.00	\$0.00	\$1,460.00	\$1,460.00
695		MANUAL, SYS MANAGER OPERATING	20	0	0	\$0.00	\$36.50	\$730.00	\$0.00	\$730.00	\$730.00
696		MANUAL, INSTR CC TRK SMARTNET II	20	0	0	\$0.00	\$36.50	\$730.00	\$0.00	\$730.00	\$730.00
697		MAN INSTR 001SSP525351	20	0	0	\$0.00	\$7.30	\$146.00	\$0.00	\$146.00	\$146.00
698		MAN INSTR T3014DX DVP-XL KVL	20	0	0	\$0.00	\$25.55	\$511.00	\$0.00	\$511.00	\$511.00
699		MAN INSTR T3014DX DVP-XL KVL	20	0	0	\$0.00	\$23.91	\$478.20	\$0.00	\$478.20	\$478.20
700		MANUAL, T5007BX CONSOLE INTERFACE	20	0	0	\$0.00	\$12.23	\$244.60	\$0.00	\$244.60	\$244.60
701		TENS0800 REFERENCE GUIDE	20	0	0	\$0.00	\$27.38	\$547.60	\$0.00	\$547.60	\$547.60
702		MAN INSTR T1 EMBASSY SW SERV	20	0	0	\$0.00	\$18.25	\$365.00	\$0.00	\$365.00	\$365.00
703		DIU3000 Owners/Install Manual	20	0	0	\$0.00	\$73.00	\$1,460.00	\$0.00	\$1,460.00	\$1,460.00
704		DIU3000 Service Manual	20	0	0	\$0.00	\$73.00	\$1,460.00	\$0.00	\$1,460.00	\$1,460.00
705		DVIDVIDES ENCRYPT MOD USERS	20	0	0	\$0.00	\$17.89	\$357.80	\$0.00	\$357.80	\$357.80
706		MAN ASTRO DVIDVP DES SERVICE	20	0	0	\$0.00	\$27.01	\$540.20	\$0.00	\$540.20	\$540.20

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours		Labor Hrs Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total Costs
			Qty	Per Unit		Total \$	Material Unit Cost			
City and County of San Francisco										
Citywide 800MHz Radio System Project (CBRS)										
Motorola Proposal for Bid No. 168										
707		DIU3000 Centracom Signalling Man.	20	0		\$0.00	\$73.00		\$1,460.00	\$1,460.00
708		DIU3000 Trunked Operation Manual	20	0		\$0.00	\$73.00		\$1,460.00	\$1,460.00
709		MANUAL, SERV QUANTAR/QUANTRO	20	0		\$0.00	\$146.00		\$2,920.00	\$2,920.00
710		MAN INSTR QUANTAR 800	20	0		\$0.00	\$36.50		\$730.00	\$730.00
711		ASTRO-TAC 2000 COMP RSS USER MANUAL	20	0		\$0.00	\$18.25		\$365.00	\$365.00
712		ASTRO-TAG 2000 COMP FUNC MAN	20	0		\$0.00	\$36.50		\$730.00	\$730.00
713		Microwave	6	0		\$0.00	\$49,667.00	\$22,500.00	\$135,000.00	\$135,000.00
714	CRS Harris	CRS SITE TOTAL								\$6,004,127.69
715		Site 2: Bernal Heights --	1	0		\$32,699.50	\$0.00	\$294,875.00	\$327,574.50	\$327,574.50
716		** Remote Controllers **	1	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
717		SIMULCAST 28 CHAN REMOTE CONTROLLER	1	0		\$0.00	\$20,741.49		\$20,741.49	\$20,741.49
718	T5293A	ADD: 21 CHANNEL CAPACITY	1	0		\$0.00	\$16,650.57		\$16,650.57	\$16,650.57
719	DS11	ADD: SPARE BOARDS	1	0		\$0.00	\$7,090.49		\$7,090.49	\$7,090.49
720	D179	ADD: ASTRO 2.0.3 MIXED MODE	1	0		\$0.00	\$4,708.50		\$4,708.50	\$4,708.50
721	Z389	** Tans; Network Server **	2	0		\$0.00	\$1,095.00		\$2,190.00	\$2,190.00
722	DSPREM8918	UNIVERSAL ENCLOSURE TENSUR800	4	0		\$0.00	\$912.50		\$3,650.00	\$3,650.00
723	DSPREM8920	DC POWER SUPPLY 48 VDC	2	0		\$0.00	\$1,842.50		\$3,285.00	\$3,285.00
724	DSPREM8920	INTERFACE CARDS, 8 T1/E1 INTFC	4	0		\$0.00	\$4,106.25		\$16,425.00	\$16,425.00
725	DSPREM8901	CPU CNTRL CARD W/2 T1/E1, RED 256	2	0		\$0.00	\$1,781.20		\$3,562.40	\$3,562.40
726	DSPREM8014	WAN CARD, DUAL T1/E1 INTERFACE	2	0		\$0.00	\$1,551.25		\$3,102.50	\$3,102.50
727	DSPREM8010	CSU PLUG IN MODULE	8	0		\$0.00	\$2,190.00		\$17,520.00	\$17,520.00
728	DSPREM812	DATA CARD, 10 PORT RS232C SUB-RATE	4	0		\$0.00	\$8,760.00		\$34,240.00	\$34,240.00
729	DSPREM8220	DIGITAL SIMULCAST MEDEM-II	6	0		\$0.00	\$8,935.00		\$53,610.00	\$53,610.00
730	DSPREMDSM2	** Repeaters **	1	0		\$0.00	\$39,470.37		\$39,470.37	\$39,470.37
731	DSPREM8205	GPS RX/CONTROLLER 28 CH	23	0		\$0.00	\$4,946.48		\$113,769.04	\$113,769.04
732	C99ED	QUANTAR/QUANTRO FAMILY	23	0		\$0.00	\$0.00		\$0.00	\$0.00
733	DS1C	QUANTAR/QUANTRO CONFIGURATION	23	0		\$0.00	\$4,609.22		\$106,012.06	\$106,012.06
734	X750	ADD: 100W/800 MHZ OPERATION	23	0		\$0.00	\$803.00		\$18,469.00	\$18,469.00
735	X897 A	ENH: SZ6808 ASTR CAL TRK QTAR	23	0		\$0.00	\$63.51		\$1,460.73	\$1,460.73
736	X337	ALT: CABLE, 50FT REPEATER	23	0		\$0.00	\$730.00		\$16,790.00	\$16,790.00
737	X688	ADD: GPS SIMULCAST	23	0		\$0.00	\$365.00		\$8,395.00	\$8,395.00
738	X889	ADD: INTFC, WIRELINE, 9.6 KB	23	0		\$0.00	\$146.00		\$3,358.00	\$3,358.00
739	X153	ADD: HARDWARE, RACKMOUNT	23	0		\$0.00	\$159.87		\$3,677.01	\$3,677.01
740	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	23	0		\$0.00	\$42.34		\$211.70	\$211.70
741	DSD8882A350	BIDIRECTIONAL SENSOR	5	0		\$0.00	\$72.27		\$361.35	\$361.35
742	HMN1001	TEST MICROPHONE	5	0		\$0.00	\$36.50		\$182.50	\$182.50
743	HSN1000 R	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	5	0		\$0.00	\$36.50		\$182.50	\$182.50
744	TRN7736	CABLE FOR EXTERNAL 6W SPEAKER	5	0		\$0.00	\$36.50		\$182.50	\$182.50
745	TRN4589	DUAL PHONE LINE SUPPRESSOR	23	0		\$0.00	\$64.42		\$1,481.66	\$1,481.66
746	*****	** Antenna System **								
747	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	20	0		\$0.00	\$2.12		\$42.40	\$42.40
748	TDN8814	1/2" CONNECTOR, N PLUG LDF PLTD	12	0		\$0.00	\$32.85		\$394.20	\$394.20
749	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	900	0		\$0.00	\$5.18		\$4,662.00	\$4,662.00
750	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	12	0		\$0.00	\$80.30		\$963.60	\$963.60
751	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	12	0		\$0.00	\$80.30		\$963.60	\$963.60
752	TDN6674	7/8" CABLE GROUND CLAMP KIT	18	0		\$0.00	\$24.46		\$440.28	\$440.28
753	TDN8964	7/8" SNAP-IN HANGER KIT, 10PK	20	0		\$0.00	\$39.42		\$788.40	\$788.40
754	TDN6672	7/8" CABLE HOUSING GRIP	6	0		\$0.00	\$36.50		\$219.00	\$219.00
755	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	350	0		\$0.00	\$3.07		\$1,074.50	\$1,074.50

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs	Rate	Rev. 7/97		Material		Subcontracts		Total Costs
							Total \$	Unit Cost	Total \$	Unit Cost	Total \$	Unit Cost	
758	TDN8809	12" CONNECTOR, N PLUG S-FLEX PLTD	46	0	0	\$0.00	\$0.00	\$37.78	\$1,737.88	\$0.00	\$0.00	\$1,737.88	
759	TDN9289	CABLE WRAP, WEATHERPROOFING	6	0	0	\$0.00	\$0.00	\$27.38	\$164.28	\$0.00	\$0.00	\$164.28	
760	L1700	14" SUPERFLEX, POLY JKT, PER FOOT	350	0	0	\$0.00	\$0.00	\$1.39	\$486.50	\$0.00	\$0.00	\$486.50	
761	TDN9714	14" CONN, N PLUG S-FLEX (PLTD)	23	0	0	\$0.00	\$0.00	\$12.23	\$281.29	\$0.00	\$0.00	\$281.29	
762	TDN9715	14" CONN, BNC PLUG S-FLEX (PLTD)	23	0	0	\$0.00	\$0.00	\$10.59	\$243.57	\$0.00	\$0.00	\$243.57	
763	DSTJD8008T	COMBINER, 806-1K MHZ, 8CH, CAV-FER CWA	4	0	0	\$0.00	\$0.00	\$9,135.95	\$36,543.80	\$0.00	\$0.00	\$36,543.80	
764	DSRMC80024	RMC 806-824 MHZ, 24CH, CWA	2	0	0	\$0.00	\$0.00	\$3,003.95	\$6,007.90	\$0.00	\$0.00	\$6,007.90	
765	RRX4039A	LIGHTNING SUPPRESSOR	6	0	0	\$0.00	\$0.00	\$47.45	\$284.70	\$0.00	\$0.00	\$284.70	
766	DSDR80616TLXT	BB TPL 6 DEG DOWN TILT	2	0	0	\$0.00	\$0.00	\$2,536.75	\$5,073.50	\$0.00	\$0.00	\$5,073.50	
767	DSDB8882A1000	BIDIRECTIONAL SENSOR	4	0	0	\$0.00	\$0.00	\$159.67	\$639.48	\$0.00	\$0.00	\$639.48	
768	*****	** RACKS **											
769	TRN7342	SEVEN FOOT RACK	9	0	0	\$0.00	\$0.00	\$343.10	\$3,087.90	\$0.00	\$0.00	\$3,087.90	
770	*****	** Power System **											
771	DQUT3KH19MBS	3KVA/3KW 24V IN, 120/240V OUT	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
772	DQTWP48SR00313B	TWINPACK -48V/800A IM CAP 400A	1	0	0	\$0.00	\$0.00	\$3,968.28	\$3,968.28	\$0.00	\$0.00	\$3,968.28	
773	DS48TEL125F1R2Z4	48V 361 A, HR 3 TRAY BATTERY SYSTEM	1	0	0	\$0.00	\$0.00	\$25,746.37	\$25,746.37	\$0.00	\$0.00	\$25,746.37	
774	DQ8411100120	CIRCUIT BREAKER PANEL	6	0	0	\$0.00	\$0.00	\$3,765.34	\$3,765.34	\$0.00	\$0.00	\$3,765.34	
775	DS1329120100	20AMP BREAKER	38	0	0	\$0.00	\$0.00	\$23.24	\$1,699.44	\$0.00	\$0.00	\$1,699.44	
776								\$22.63	\$859.94	\$0.00	\$0.00	\$859.94	
777	Bernal Heights	REMOTE TERMINAL UNIT											
778	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	\$0.00	\$0.00	\$1,443.94	\$1,443.94	\$0.00	\$0.00	\$1,443.94	
779	V051	ALT: NEMA TO RACKMOUNT	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
780	V245	ADD: ASYNC RS232	8	0	0	\$0.00	\$0.00	\$113.15	\$905.20	\$0.00	\$0.00	\$905.20	
781	V418	REPLACE 8-SLOT MB W/8CPU+NO I/O	1	0	0	\$0.00	\$0.00	\$146.00	\$146.00	\$0.00	\$0.00	\$146.00	
782	V425	ADD: MOSCAD CPU 300	7	0	0	\$0.00	\$0.00	\$972.36	\$6,806.52	\$0.00	\$0.00	\$6,806.52	
783	V120	ADD: 8 MOD W/EXPANSION MODULE	1	0	0	\$0.00	\$0.00	\$693.50	\$693.50	\$0.00	\$0.00	\$693.50	
784	V437	ADD: 8AI 5V MODULE	7	0	0	\$0.00	\$0.00	\$477.42	\$3,341.94	\$0.00	\$0.00	\$3,341.94	
785	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	\$0.00	\$0.00	\$1,443.94	\$1,443.94	\$0.00	\$0.00	\$1,443.94	
786	V051	ALT: NEMA TO RACKMOUNT	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
787	V369	REPL: 8-SLOT MB W/4CPU+4IO	1	0	0	\$0.00	\$0.00	\$146.00	\$146.00	\$0.00	\$0.00	\$146.00	
788	V274	DEL: 3 AMP PS AND BATTERY	2	0	0	\$0.00	\$0.00	(\$240.90)	(\$240.90)	\$0.00	\$0.00	(\$240.90)	
789	V425	ADD: CPU 300	2	0	0	\$0.00	\$0.00	\$972.36	\$1,944.72	\$0.00	\$0.00	\$1,944.72	
790	V345	ADD: ASYNC RS232	3	0	0	\$0.00	\$0.00	\$113.15	\$339.45	\$0.00	\$0.00	\$339.45	
791	V380	ADD: 60 DI. MODULE	1	0	0	\$0.00	\$0.00	\$277.40	\$277.40	\$0.00	\$0.00	\$277.40	
792	V516	ADD: 16DO LATCH MODULE	1	0	0	\$0.00	\$0.00	\$375.95	\$375.95	\$0.00	\$0.00	\$375.95	
793	F6933	SERIES 300 CPU	1	0	0	\$0.00	\$0.00	\$1,045.36	\$1,045.36	\$0.00	\$0.00	\$1,045.36	
794	V345	ADD: ASYNC RS232	1	0	0	\$0.00	\$0.00	\$113.15	\$113.15	\$0.00	\$0.00	\$113.15	
795	V104	ADD: 2400 DIAL-UP	1	0	0	\$0.00	\$0.00	\$300.76	\$300.76	\$0.00	\$0.00	\$300.76	
796	FKN4400	FLAT OVAL 2.5M CABLE	12	0	0	\$0.00	\$0.00	\$131.40	\$131.40	\$0.00	\$0.00	\$131.40	
797	FRN5727	LAN ADAPTER ASSEMBLY	2	0	0	\$0.00	\$0.00	\$36.50	\$73.00	\$0.00	\$0.00	\$73.00	
798	FRN5734	CPU RS-232 MULTIPLEXER INTF 1 TO 4	6	0	0	\$0.00	\$0.00	\$182.50	\$1,095.00	\$0.00	\$0.00	\$1,095.00	
799	TDN9263	MODEM, 14,400 BPS V.32BIS	1	0	0	\$0.00	\$0.00	\$580.35	\$580.35	\$0.00	\$0.00	\$580.35	
800	DQEVMSM0006	MODEM CABLE	1	0	0	\$0.00	\$0.00	\$23.36	\$23.36	\$0.00	\$0.00	\$23.36	
801	FKN5934	EXTERNAL DC PS TO MB CABLE	1	0	0	\$0.00	\$0.00	\$10.95	\$10.95	\$0.00	\$0.00	\$10.95	
802													
803	Bernal Heights	Microwave	2	0	0	\$0.00	\$0.00	\$49,667.00	\$99,334.00	\$22,500.00	\$45,000.00	\$144,334.00	
804		BERNAL HEIGHTS TOTAL										\$1,024,761.02	
805	*****	Site 3: Ft. Riley	1	0	0	\$0.00	\$0.00	\$32,699.50	\$32,699.50	\$0.00	\$0.00	\$32,699.50	
806	*****	** Remote Controllers **											
807	T5293A	SIMULCAST 28 CHAN REMOTE CONTROLLER	1	0	0	\$0.00	\$0.00	\$20,741.49	\$20,741.49	\$0.00	\$0.00	\$20,741.49	
808	D511	ADD: 21 CHANNEL CAPACITY	1	0	0	\$0.00	\$0.00	\$16,650.57	\$16,650.57	\$0.00	\$0.00	\$16,650.57	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours		Labor	Project Cost Itemization Schedule		Subcontracts	Total	Total	Total
			Qty	Per Unit		Total \$	Unit Cost				
		City and County of San Francisco									
		Citywide 800MHz Radio System Project (CERS)									
		Motorola Proposal for Bid No. 168									
		Rev: 7/97									
809	D179	ADD. SPARE BOARDS	1			\$0.00	\$7,090.49		\$0.00	\$7,090.49	
810	Z399	ADD. ASTRO 2.0.3 MIXED MODE	1			\$0.00	\$4,708.50		\$0.00	\$4,708.50	
811	*****	** TENSr Network Server **	1			\$0.00	\$0.00		\$0.00	\$0.00	
812	DSPREM8918	UNIVERSAL ENCLOSURE TENSr/800	2			\$0.00	\$1,095.00		\$0.00	\$2,190.00	
813	DSPREM8920	DC POWER SUPPLY 48 VDC	4			\$0.00	\$912.50		\$0.00	\$3,650.00	
814	DSPREM8901	INTERFACE CARDS, 8 T1/E1 INTFC	2			\$0.00	\$1,842.50		\$0.00	\$3,285.00	
815	DSPREM8801	CPU CNTRL CARD W/2 T1/E1, RED 256	4			\$0.00	\$4,106.25		\$0.00	\$16,425.00	
816	DSPREM8014	WAN CARD, DUAL T1/E1 INTERFACE	2			\$0.00	\$1,781.20		\$0.00	\$3,562.40	
817	DSPREM8010	WAN CARD, DUAL T1/E1 INTERFACE	2			\$0.00	\$1,551.25		\$0.00	\$3,102.50	
818	DSPREM812	CSU PLUG IN MODULE	8			\$0.00	\$912.50		\$0.00	\$7,300.00	
819	DSPREM8220	DATA CARD, 10 PORT RS232C SUB-RATE	4			\$0.00	\$2,190.00		\$0.00	\$8,760.00	
820	DSPREMDSM2	DIGITAL SIMULCAST MEDEM-II	6			\$0.00	\$6,935.00		\$0.00	\$41,610.00	
821	*****	** Repeaters **									
822	DOMFS205	GPS RX/CONTROLLER 2B CH	1			\$0.00	\$39,470.37		\$0.00	\$39,470.37	
823	C99ED	QUANTAR/QUANTRO FAMILY	23			\$0.00	\$4,946.48		\$0.00	\$113,769.04	
824	001C	QUANTAR/QUANTRO CONFIGURATION	23			\$0.00	\$0.00		\$0.00	\$0.00	
825	X750	ADD: 100W 800 MHZ OPERATION	23			\$0.00	\$4,609.22		\$0.00	\$106,012.06	
826	X897 A	ENH. SZ6809 ASTR CAL TRK QTAR	23			\$0.00	\$803.00		\$0.00	\$18,489.00	
827	X337	ALT. CABLE, 50FT REPEATER	23			\$0.00	\$63.51		\$0.00	\$1,480.73	
828	X888	ADD. GPS SIMULCAST	23			\$0.00	\$16,790.00		\$0.00	\$16,790.00	
829	X869	ADD. INTFC, WIRELINE, 9.6 KB	23			\$0.00	\$365.00		\$0.00	\$8,395.00	
830	X163	ADD: HARDWARE, RACKMOUNT	23			\$0.00	\$0.00		\$0.00	\$0.00	
831	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	23			\$0.00	\$146.00		\$0.00	\$3,356.00	
832	DSDB882A350	BIDIRECTIONAL SENSOR	23			\$0.00	\$42.34		\$0.00	\$9,677.01	
833	HMN1001	TEST MICROPHONE	5			\$0.00	\$211.70		\$0.00	\$211.70	
834	HSN1000 R	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	5			\$0.00	\$72.27		\$0.00	\$361.35	
835	TRN7398	CABLE FOR EXTERNAL 6W SPEAKER	5			\$0.00	\$36.50		\$0.00	\$182.50	
836	TRN4589	DUAL PHONE LINE SUPPRESSOR	23			\$0.00	\$64.42		\$0.00	\$1,481.66	
837	*****	** Antenna System **									
838	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	20			\$0.00	\$2.12		\$0.00	\$42.40	
839	TDN8814	1/2" CONNECTOR, N PLUG LDF PLTD	12			\$0.00	\$32.85		\$0.00	\$394.20	
840	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	900			\$0.00	\$5.18		\$0.00	\$4,662.00	
841	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	12			\$0.00	\$80.30		\$0.00	\$963.60	
842	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	12			\$0.00	\$80.30		\$0.00	\$963.60	
843	TDN8674	7/8" CABLE GROUND CLAMP KIT	18			\$0.00	\$24.46		\$0.00	\$440.28	
844	TDN8954	7/8" SNAP-IN HANGER KIT, 10PK	20			\$0.00	\$39.42		\$0.00	\$788.40	
845	TDN8672	7/8" CABLE HOISTING GRIP	6			\$0.00	\$36.50		\$0.00	\$219.00	
846	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	350			\$0.00	\$3.07		\$0.00	\$1,074.50	
847	TDN8803	1/2" CONNECTOR, N PLUG S-FLEX PLTD	46			\$0.00	\$37.78		\$0.00	\$1,737.88	
848	TDN9289	CABLE WRAP, WEATHERPROOFING	6			\$0.00	\$27.38		\$0.00	\$164.28	
849	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	350			\$0.00	\$12.23		\$0.00	\$281.29	
850	TDN9714	1/4"CONN, N PLUG S-FLEX (PLTD)	23			\$0.00	\$10.59		\$0.00	\$243.57	
851	TDN9715	1/4"CONN, BNC PLUG S-FLEX (PLTD)	23			\$0.00	\$9,135.96		\$0.00	\$36,543.80	
852	DSTJDB8008T	COMBINER, 806-1K MHZ, 5CH, CAV-FER CWA	4			\$0.00	\$3,003.95		\$0.00	\$6,007.90	
853	DSRMC8002A	RMC 806-824 MHZ, 24CH, CWA	2			\$0.00	\$0.00		\$0.00	\$284.70	
854	RRX4039A	LIGHTNING SUPPRESSOR	6			\$0.00	\$47.45		\$0.00	\$5,073.50	
855	DSDB80616TLXT	BB TPL 6 DEG DOWNTLT	2			\$0.00	\$2,536.75		\$0.00	\$639.48	
856	DSDB8882A1000	BIDIRECTIONAL SENSOR	4			\$0.00	\$159.87		\$0.00	\$3,087.90	
857	*****	** Racks **									
858	TRN7342	SEVEN FOOT RACK	9			\$0.00	\$343.10		\$0.00	\$0.00	
859	*****	** Power System **									
860	DQUT3KH19MBS	3KVA/3KW 24V IN, 120/240V OUT	1			\$0.00	\$3,968.28		\$0.00	\$3,968.28	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
						Total \$	Material Unit Cost				
City and County of San Francisco											
Citywide 800MHz Radio System Project (CPRS)											
Motorola Proposal for Bid No. 168											
861	DQTWP468800313B	TWINPACK-48V/800A IM CAP 400A	1	0	0	\$0.00	\$25,746.37		\$0.00	\$0.00	\$25,746.37
862	DS48TEL125F1R2Z4	48V 361 A HR 3 TRAY BATTERY SYSTEM	1	0	0	\$0.00	\$3,765.34		\$0.00	\$0.00	\$3,765.34
863	D08411100120	CIRCUIT BREAKER PANEL	6	0	0	\$0.00	\$283.24		\$0.00	\$0.00	\$1,699.44
864	DS1329120100	20AMP BREAKER	38	0	0	\$0.00	\$22.63		\$0.00	\$0.00	\$859.94
865											
866	**REMOTE RF SITES**	REMOTE TERMINAL UNIT									
867	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	\$0.00	\$1,443.94		\$0.00	\$0.00	\$0.00
868	V051	ALT: NEMA TO RACKMOUNT	1	0	0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
869	V345	ADD: ASYNC RS232	7	0	0	\$0.00	\$113.15		\$0.00	\$0.00	\$0.00
870	V418	REPLACE 8-SLOT MB W/RCPU+NO I/O	1	0	0	\$0.00	\$146.00		\$0.00	\$0.00	\$0.00
871	V425	ADD: MOSCAD CPU 300	6	0	0	\$0.00	\$972.36		\$0.00	\$0.00	\$0.00
872	V120	ADD: 8 MOD W/EXPANSION MODULE	1	0	0	\$0.00	\$693.50		\$0.00	\$0.00	\$0.00
873	V437	ADD: BAI 5V MODULE	7	0	0	\$0.00	\$477.42		\$0.00	\$0.00	\$0.00
874	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	\$0.00	\$1,443.94		\$0.00	\$0.00	\$0.00
875	V051	ALT: NEMA TO RACKMOUNT	1	0	0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
876	V369	REPL 8-SLOT MB W/4CPU+4I/O	1	0	0	\$0.00	\$146.00		\$0.00	\$0.00	\$0.00
877	V274	DEL: 3 AMP PS AND BATTERY	1	0	0	\$0.00	(\$240.90)		\$0.00	\$0.00	\$0.00
878	V425	ADD: CPU 300	1	0	0	\$0.00	\$972.36		\$0.00	\$0.00	\$0.00
879	V345	ADD: ASYNC RS232	1	0	0	\$0.00	\$113.15		\$0.00	\$0.00	\$0.00
880	V380	ADD: 60 DI. MODULE	1	0	0	\$0.00	\$277.40		\$0.00	\$0.00	\$0.00
881	V516	ADD: 16DO LATCH MODULE	1	0	0	\$0.00	\$375.95		\$0.00	\$0.00	\$0.00
882	F6933	SERIES 300 CPU	1	0	0	\$0.00	\$1,045.36		\$0.00	\$0.00	\$0.00
883	V345	ADD: ASYNC RS232	1	0	0	\$0.00	\$113.15		\$0.00	\$0.00	\$0.00
884	V104	ADD: 2400 DIAL-UP	1	0	0	\$0.00	\$300.76		\$0.00	\$0.00	\$0.00
885	FKN4400	FLAT OVAL 2.5M CABLE	9	0	0	\$0.00	\$98.55		\$0.00	\$0.00	\$0.00
886	FRN5727	LAN ADAPTER ASSEMBLY	2	0	0	\$0.00	\$36.50		\$0.00	\$0.00	\$0.00
887	FRN5734	CPU RS-232 MULTIPLER INTF 1 TO 4	6	0	0	\$0.00	\$182.50		\$0.00	\$0.00	\$0.00
888	FKN5934	EXTERNAL DC PS TO MB CABLE	1	0	0	\$0.00	\$10.95		\$0.00	\$0.00	\$0.00
889	FT Milley Harris	Microwave	2	0	0	\$0.00	\$49,667.00		\$0.00	\$0.00	\$144,334.00
890		FT. MILEY TOTAL					\$99,334.00		\$22,500.00		\$1,096,548.52
891											
892		Site 4: SF State --	1	0	0	\$32,699.50	\$0.00		\$0.00	\$0.00	\$32,699.50
893		** Remote Controllers **	1	0	0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
894	T5263A	SIMULCAST 28 CHAN REMOTE CONTROLLER	1	0	0	\$0.00	\$20,741.49		\$0.00	\$0.00	\$20,741.49
895	D611	ADD: 21 CHANNEL CAPACITY	1	0	0	\$0.00	\$16,650.57		\$0.00	\$0.00	\$16,650.57
896	D179	ADD: SPARE BOARDS	1	0	0	\$0.00	\$7,090.49		\$0.00	\$0.00	\$7,090.49
897	Z389	ADD: ASTRO 2.0.3 MIXED MODE	1	0	0	\$0.00	\$4,708.50		\$0.00	\$0.00	\$4,708.50
898		** TeNIS Network Server **									
899	DSPREM8918	UNIVERSAL ENCLOSURE TENSUR/800	2	0	0	\$0.00	\$2,190.00		\$0.00	\$0.00	\$2,190.00
900	DSPREM8902	DC POWER SUPPLY 48 VDC	4	0	0	\$0.00	\$3,650.00		\$0.00	\$0.00	\$3,650.00
901	DSPREM8920	INTERFACE CARDS, 8 T1/E1 INTFC	2	0	0	\$0.00	\$1,642.50		\$0.00	\$0.00	\$1,642.50
902	DSPREM8901	CPU CNTRL CARD W/2 T1/E1, RED 256	4	0	0	\$0.00	\$4,106.25		\$0.00	\$0.00	\$4,106.25
903	DSPREM8014	WAN CARD, DUAL T1/E1 INTERFACE	2	0	0	\$0.00	\$1,781.20		\$0.00	\$0.00	\$1,781.20
904	DSPREM8010	WAN CARD, DUAL T1/E1 INTERFACE	2	0	0	\$0.00	\$3,562.40		\$0.00	\$0.00	\$3,562.40
905	DSPREM8012	CSU PLUG IN MODULE	6	0	0	\$0.00	\$912.50		\$0.00	\$0.00	\$912.50
906	DSPREM8220	DATA CARD, 10 PORT RS232C SUB-RATE	4	0	0	\$0.00	\$2,190.00		\$0.00	\$0.00	\$2,190.00
907	DSPREMD5M2	DIGITAL SIMULCAST MEDEM-II	6	0	0	\$0.00	\$6,935.00		\$0.00	\$0.00	\$41,610.00
908		** Repeaters **									
909	DQMFS205	GPS RX/CONTROLLER 28 CH	1	0	0	\$0.00	\$39,470.37		\$0.00	\$0.00	\$39,470.37
910	C991C	QUANTAR/QUANTRO FAMILY	23	0	0	\$0.00	\$4,946.48		\$0.00	\$0.00	\$113,789.04
911	001C	QUANTAR/QUANTRO CONFIGURATION	23	0	0	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours		Labor Hrs	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
			Qty	Per Unit		Total \$	Material Unit Cost				
		Citywide 800MHz Radio System Project (CERS) Motorola Proposal for Bid No. 168									
912	X750	ADD: 100W 800 MHZ OPERATION	23	0	0	\$4,609.22	\$0.00	\$0.00	\$106,012.06	\$0.00	\$106,012.06
913	X897 A	ENH: SZ6809 ASTR CAL TRK QIAR	23	0	0	\$803.00	\$0.00	\$0.00	\$18,469.00	\$0.00	\$18,469.00
914	X337	ALT: CABLE, 50FT REPEATER	23	0	0	\$63.51	\$0.00	\$0.00	\$1,460.73	\$0.00	\$1,460.73
915	X888	ADD: GPS SIMULCAST	23	0	0	\$730.00	\$0.00	\$0.00	\$16,790.00	\$0.00	\$16,790.00
916	X889	ADD: INTFC, WIRELINE, 9.6 KB	23	0	0	\$565.00	\$0.00	\$0.00	\$8,395.00	\$0.00	\$8,395.00
917	X153	ADD: HARDWARE, RACKMOUNT	23	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
918	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	23	0	0	\$146.00	\$0.00	\$0.00	\$3,358.00	\$0.00	\$3,358.00
919	DSDB8882A350	BIDIRECTIONAL SENSOR	23	0	0	\$159.87	\$0.00	\$0.00	\$3,677.01	\$0.00	\$3,677.01
920	HMN1001	TEST MICROPHONE	5	0	0	\$42.34	\$0.00	\$0.00	\$211.70	\$0.00	\$211.70
921	HSN1000 R	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	5	0	0	\$72.27	\$0.00	\$0.00	\$361.35	\$0.00	\$361.35
922	TRN7738	CABLE FOR EXTERNAL 6W SPEAKER	5	0	0	\$36.50	\$0.00	\$0.00	\$182.50	\$0.00	\$182.50
923	TRN4589	DUAL PHONE LINE SUPPRESSOR	23	0	0	\$64.42	\$0.00	\$0.00	\$1,481.66	\$0.00	\$1,481.66
924		** Antenna System **									
925	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	20	0	0	\$2.12	\$0.00	\$0.00	\$42.40	\$0.00	\$42.40
926	TDN8814	1/2" CONNECTOR, N PLUG LDF PLTD	12	0	0	\$32.85	\$0.00	\$0.00	\$394.20	\$0.00	\$394.20
927	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	900	0	0	\$5.18	\$0.00	\$0.00	\$4,662.00	\$0.00	\$4,662.00
928	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	12	0	0	\$60.30	\$0.00	\$0.00	\$963.60	\$0.00	\$963.60
929	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	12	0	0	\$60.30	\$0.00	\$0.00	\$963.60	\$0.00	\$963.60
930	TDN8674	7/8" CABLE GROUND CLAMP KIT	18	0	0	\$24.46	\$0.00	\$0.00	\$440.28	\$0.00	\$440.28
931	TDN8964	7/8" SNAP-IN HANGER KIT, 10PK	20	0	0	\$39.42	\$0.00	\$0.00	\$788.40	\$0.00	\$788.40
932	TDN8872	7/8" CABLE HOISTING GRIP	6	0	0	\$36.50	\$0.00	\$0.00	\$219.00	\$0.00	\$219.00
933	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	350	0	0	\$3.07	\$0.00	\$0.00	\$1,074.50	\$0.00	\$1,074.50
934	TDN8609	1/2" CONNECTOR, N PLUG S-FLEX PLTD	46	0	0	\$37.78	\$0.00	\$0.00	\$1,737.88	\$0.00	\$1,737.88
935	TDN8289	CABLE WRAP, WEATHERPROOFING	6	0	0	\$27.38	\$0.00	\$0.00	\$164.28	\$0.00	\$164.28
936	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	350	0	0	\$1.39	\$0.00	\$0.00	\$486.50	\$0.00	\$486.50
937	TDN9714	1/4" CONN, N PLUG S-FLEX (PLTD)	23	0	0	\$12.23	\$0.00	\$0.00	\$281.29	\$0.00	\$281.29
938	TDN9715	1/4" CONN, BNC PLUG S-FLEX (PLTD)	23	0	0	\$10.59	\$0.00	\$0.00	\$243.57	\$0.00	\$243.57
939	DSTJD8008T	COMBINER, 806-1K MHZ, 8CH, CAV-FER CWA	4	0	0	\$9,135.95	\$0.00	\$0.00	\$36,543.80	\$0.00	\$36,543.80
940	DSRMC80024	RMIC 806-824 MHZ, 24CH, CWA	2	0	0	\$3,003.95	\$0.00	\$0.00	\$6,007.90	\$0.00	\$6,007.90
941	RRX4039A	LIGHTNING SUPPRESSOR	6	0	0	\$47.45	\$0.00	\$0.00	\$284.70	\$0.00	\$284.70
942	DSDB88616TLXT	BB TPL 6 DEG DOWN TILT	2	0	0	\$2,536.75	\$0.00	\$0.00	\$5,073.50	\$0.00	\$5,073.50
943	DSDB8862A1000	BIDIRECTIONAL SENSOR	4	0	0	\$159.87	\$0.00	\$0.00	\$639.48	\$0.00	\$639.48
944		** Racks **									
945	TRN7342	SEVEN FOOT RACK	9	0	0	\$343.10	\$0.00	\$0.00	\$3,087.90	\$0.00	\$3,087.90
946		** Power System **									
947	DQU73KH19MBS	3KVA/3KW 24V IN, 120/240V OUT	1	0	0	\$3,968.28	\$0.00	\$0.00	\$3,968.28	\$0.00	\$3,968.28
948	DQ7WP48S800319B	TWINPACK, 48V/800A IM CAP 400A	1	0	0	\$25,746.37	\$0.00	\$0.00	\$25,746.37	\$0.00	\$25,746.37
949	DS48TEL125F-1R2Z4	48V 361 A HR 3 TRAY BATTERY SYSTEM	1	0	0	\$3,765.34	\$0.00	\$0.00	\$3,765.34	\$0.00	\$3,765.34
950	DQ8411100120	CIRCUIT BREAKER PANEL	6	0	0	\$283.24	\$0.00	\$0.00	\$1,699.44	\$0.00	\$1,699.44
951	DS1329120100	20AMP BREAKER	38	0	0	\$22.63	\$0.00	\$0.00	\$859.94	\$0.00	\$859.94
952		**REMOTE RF SITES**									
953	F6900	REMOTE TERMINAL UNIT	1	0	0	\$1,443.94	\$0.00	\$0.00	\$1,443.94	\$0.00	\$1,443.94
954	V051	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
955	V051	ALT: NEMA TO RACKMOUNT	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
956	V345	ADD: ASYNC RS232	7	0	0	\$113.15	\$0.00	\$0.00	\$792.05	\$0.00	\$792.05
957	V418	REPLACE 8-SLOT MB W/8CPU+NO I/O	1	0	0	\$146.00	\$0.00	\$0.00	\$146.00	\$0.00	\$146.00
958	V425	ADD: MOSCAD CPU 300	6	0	0	\$972.36	\$0.00	\$0.00	\$5,834.16	\$0.00	\$5,834.16
959	V120	ADD: 8 MOD W/EXPANSION MODULE	4	0	0	\$693.50	\$0.00	\$0.00	\$693.50	\$0.00	\$693.50
960	V437	ADD: 8AI 5V MODULE	7	0	0	\$477.42	\$0.00	\$0.00	\$3,341.94	\$0.00	\$3,341.94
961	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	\$1,443.94	\$0.00	\$0.00	\$1,443.94	\$0.00	\$1,443.94
962	V051	ALT: NEMA TO RACKMOUNT	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
963	V369	REPL: 8-SLOT MB W/4CPU+4I/O	1	0	0	\$146.00	\$0.00	\$0.00	\$146.00	\$0.00	\$146.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev. 7/97		Project Cost Itemization Schedule		Subcontractors		Total	
Item #	Model	Item Description	Qty	Man Hours	Total	Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Total \$	Total Costs
964	V274	DEL 3 AMP PS AND BATTERY	1	0	0	\$0.00	\$0.00	(\$240.90)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
965	V425	ADD: CPU 300	1	0	0	\$0.00	\$0.00	\$972.36	\$972.36	\$0.00	\$0.00	\$0.00	\$0.00
966	V345	ADD: ASYNC RS232	1	0	0	\$0.00	\$0.00	\$113.15	\$113.15	\$0.00	\$0.00	\$0.00	\$0.00
967	V380	ADD: 60 DI MODULE	1	0	0	\$0.00	\$0.00	\$277.40	\$277.40	\$0.00	\$0.00	\$0.00	\$0.00
968	V516	ADD: 16DO LATCH MODULE	1	0	0	\$0.00	\$0.00	\$375.95	\$375.95	\$0.00	\$0.00	\$0.00	\$0.00
969	F6933	SERIES 300 CPU	1	0	0	\$0.00	\$0.00	\$1,045.36	\$1,045.36	\$0.00	\$0.00	\$0.00	\$0.00
970	V345	ADD: ASYNC RS232	1	0	0	\$0.00	\$0.00	\$113.15	\$113.15	\$0.00	\$0.00	\$0.00	\$0.00
971	V104	ADD: 2400 DIAL-UP	1	0	0	\$0.00	\$0.00	\$300.76	\$300.76	\$0.00	\$0.00	\$0.00	\$0.00
972	FKN4400	FLAT OVAL 2.5M CABLE	9	0	0	\$0.00	\$0.00	\$10.95	\$98.55	\$0.00	\$0.00	\$0.00	\$0.00
973	FRN5727	LAN ADAPTER ASSEMBLY	2	0	0	\$0.00	\$0.00	\$36.50	\$73.00	\$0.00	\$0.00	\$0.00	\$0.00
974	FRN5734	CPU RS-232 MULTIPLEXER INTF 1 TO 4	6	0	0	\$0.00	\$0.00	\$182.50	\$1,095.00	\$0.00	\$0.00	\$0.00	\$0.00
975	FKN5934	EXTERNAL DC PS TO MB CABLE	1	0	0	\$0.00	\$0.00	\$10.95	\$10.95	\$0.00	\$0.00	\$0.00	\$0.00
977		Microwave	2	0	0	\$0.00	\$0.00	\$49,667.00	\$99,334.00	\$22,500.00	\$45,000.00	\$144,334.00	\$1,084,282.27
978		S.F. STATE TOTAL					\$32,699.50	\$0.00	\$0.00	\$192,775.00	\$192,775.00	\$225,474.50	\$0.00
979		Site 5: Forest Hill -	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
980		** Remote Controllers **	1	0	0	\$0.00	\$0.00	\$20,741.49	\$20,741.49	\$0.00	\$0.00	\$20,741.49	\$0.00
981		SIMULCAST 28 CHAN REMOTE CONTROLLER	1	0	0	\$0.00	\$0.00	\$16,650.57	\$16,650.57	\$0.00	\$0.00	\$16,650.57	\$0.00
982	T5293A	ADD: 21 CHANNEL CAPACITY	1	0	0	\$0.00	\$0.00	\$7,090.49	\$7,090.49	\$0.00	\$0.00	\$7,090.49	\$0.00
983	D611	ADD: SPARE BOARDS	1	0	0	\$0.00	\$0.00	\$4,708.50	\$4,708.50	\$0.00	\$0.00	\$4,708.50	\$0.00
984	D179	ADD: ASTRO 2.0.3 MIXED MODE	1	0	0	\$0.00	\$0.00	\$1,095.00	\$1,095.00	\$0.00	\$0.00	\$1,095.00	\$0.00
985	Z389	** TenSt Network Server **	2	0	0	\$0.00	\$0.00	\$912.50	\$1,825.00	\$0.00	\$0.00	\$1,825.00	\$0.00
986		UNIVERSAL ENCLOSURE TENSUR/800	2	0	0	\$0.00	\$0.00	\$3,650.00	\$7,300.00	\$0.00	\$0.00	\$7,300.00	\$0.00
987	DSPREMB918	DC POWER SUPPLY 48 VDC	4	0	0	\$0.00	\$0.00	\$3,285.00	\$13,140.00	\$0.00	\$0.00	\$13,140.00	\$0.00
988	DSPREMB902	INTERFACE CARDS, 8 T1/E1 INTFC	2	0	0	\$0.00	\$0.00	\$4,106.25	\$8,212.50	\$0.00	\$0.00	\$8,212.50	\$0.00
989	DSPREMB920	CPU CNTRL. CARD W/2 T1/E1, RED 256	4	0	0	\$0.00	\$0.00	\$1,781.20	\$7,124.80	\$0.00	\$0.00	\$7,124.80	\$0.00
990	DSPREMB801	WAN CARD, DUAL T1/E1 INTERFACE	2	0	0	\$0.00	\$0.00	\$1,551.25	\$3,102.50	\$0.00	\$0.00	\$3,102.50	\$0.00
991	DSPREMB014	WAN CARD, DUAL T1/E1 INTERFACE	2	0	0	\$0.00	\$0.00	\$912.50	\$1,825.00	\$0.00	\$0.00	\$1,825.00	\$0.00
992	DSPREMB010	CSU PLUG IN MODULE	8	0	0	\$0.00	\$0.00	\$2,190.00	\$17,520.00	\$0.00	\$0.00	\$17,520.00	\$0.00
993	DSPREMB812	DATA CARD, 10 PORT RS232C SUB-RATE	4	0	0	\$0.00	\$0.00	\$6,935.00	\$27,740.00	\$0.00	\$0.00	\$27,740.00	\$0.00
994	DSPREMB220	DIGITAL SIMULCAST MEDEMI	6	0	0	\$0.00	\$0.00	\$39,470.37	\$236,822.22	\$0.00	\$0.00	\$236,822.22	\$0.00
995	DSPREMD5M2	** Repeaters **	1	0	0	\$0.00	\$0.00	\$4,946.48	\$4,946.48	\$0.00	\$0.00	\$4,946.48	\$0.00
996		GPS RX/CONTROLLER 28 CH	23	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
997	DOMFS205	QUANTAR/QUANTRO FAMILY	23	0	0	\$0.00	\$0.00	\$4,609.22	\$106,012.06	\$0.00	\$0.00	\$106,012.06	\$0.00
998	C99ED	ADD: 100W 800 MHZ OPERATION	23	0	0	\$0.00	\$0.00	\$63.51	\$1,460.73	\$0.00	\$0.00	\$1,460.73	\$0.00
999	001C	ENH: S26809 ASTR CAL TRK Q/TAR	23	0	0	\$0.00	\$0.00	\$730.00	\$16,790.00	\$0.00	\$0.00	\$16,790.00	\$0.00
1000	X750	ALT: CABLE, 50FT REPEATER	23	0	0	\$0.00	\$0.00	\$365.00	\$8,395.00	\$0.00	\$0.00	\$8,395.00	\$0.00
1001	X697 A	ADD: INTFC, WIRELINE, 9.6 KB	23	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1002	X337	ADD: HARDWARE, RACKMOUNT	23	0	0	\$0.00	\$0.00	\$146.00	\$3,358.00	\$0.00	\$0.00	\$3,358.00	\$0.00
1003	X869	ALT: DC ONLY OP. DC TO DC CONVERTER	23	0	0	\$0.00	\$0.00	\$159.87	\$3,677.01	\$0.00	\$0.00	\$3,677.01	\$0.00
1004	X869	BIDIRECTIONAL SENSOR	23	0	0	\$0.00	\$0.00	\$42.34	\$973.82	\$0.00	\$0.00	\$973.82	\$0.00
1005	X113	TEST MICROPHONE	5	0	0	\$0.00	\$0.00	\$72.27	\$361.35	\$0.00	\$0.00	\$361.35	\$0.00
1006	X113	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	5	0	0	\$0.00	\$0.00	\$36.50	\$182.50	\$0.00	\$0.00	\$182.50	\$0.00
1007	DSDBB882A350	CABLE FOR EXTERNAL 6W SPEAKER	5	0	0	\$0.00	\$0.00	\$64.42	\$322.10	\$0.00	\$0.00	\$322.10	\$0.00
1008	HMN1001	DUAL PHONE LINE SUPPRESSOR	23	0	0	\$0.00	\$0.00	\$1,481.66	\$34,098.18	\$0.00	\$0.00	\$34,098.18	\$0.00
1009	HSN1000 R	** Antenna System **	20	0	0	\$0.00	\$0.00	\$2.12	\$42.40	\$0.00	\$0.00	\$42.40	\$0.00
1010	TRN7738	1/2" LDF HELIAX, POLY JKT, PER FOOT	12	0	0	\$0.00	\$0.00	\$32.85	\$394.20	\$0.00	\$0.00	\$394.20	\$0.00
1011	TRN4569	1/2" CONNECTOR, N PLUG LDF PLTD	900	0	0	\$0.00	\$0.00	\$5.18	\$4,662.00	\$0.00	\$0.00	\$4,662.00	\$0.00
1012		7/8" LDF HELIAX, POLY JKT, PER FOOT											

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Material		Labor		Rev: 7/97		Subcontracts		Total	
Motorola Proposal for Bid No. 168		Project Cost Itemization Schedule		Unit		Trfs		Project Cost Itemization Schedule		Unit		Total	
Item #	Model	Item Description	Qty	Man Hours	Per Unit	Total	Rate	Total \$	Material Cost	Total \$	Cost	Total \$	Costs
1016	TDN8817	7/8" CONNECTOR, N JACK (PLATED)	12	0				\$963.60	\$80.30	\$963.60	\$0.00	\$963.60	\$963.60
1017	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	12	0				\$963.60	\$80.30	\$963.60	\$0.00	\$963.60	\$963.60
1018	TDN8874	7/8" CABLE GROUND CLAMP KIT	18	0				\$440.28	\$24.46	\$440.28	\$0.00	\$440.28	\$440.28
1019	TDN8964	7/8" SNAP-IN HANGER KIT, 10PK	20	0				\$788.40	\$39.42	\$788.40	\$0.00	\$788.40	\$788.40
1020	TDN8672	7/8" CABLE HOISTING GRIP	6	0				\$219.00	\$36.50	\$219.00	\$0.00	\$219.00	\$219.00
1021	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	350	0				\$1,074.50	\$3.07	\$1,074.50	\$0.00	\$1,074.50	\$1,074.50
1022	TDN8209	1/2" CONNECTOR, N PLUG S-FLEX PLTD	46	0				\$1,737.88	\$37.78	\$1,737.88	\$0.00	\$1,737.88	\$1,737.88
1023	TDN8269	CABLE WRAP, WEATHERPROOFING	6	0				\$164.28	\$27.38	\$164.28	\$0.00	\$164.28	\$164.28
1024	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	350	0				\$486.50	\$1.39	\$486.50	\$0.00	\$486.50	\$486.50
1025	TDN8714	1/4" CONN, N PLUG S-FLEX (PLTD)	23	0				\$281.29	\$12.23	\$281.29	\$0.00	\$281.29	\$281.29
1026	TDN8715	1/4" CONN, N PLUG S-FLEX (PLTD)	23	0				\$243.57	\$10.59	\$243.57	\$0.00	\$243.57	\$243.57
1027	DST1D8008T	COMBINER, 806-1K MHZ 8CH CAV-FER CWA	4	0				\$36,543.80	\$9,135.85	\$36,543.80	\$0.00	\$36,543.80	\$36,543.80
1028	DSRMC80024	RMC 806-824 MHZ, 24CH, CWA	2	0				\$6,007.90	\$3,003.95	\$6,007.90	\$0.00	\$6,007.90	\$6,007.90
1029	RRX4039A	LIGHTNING SUPPRESSOR	6	0				\$284.70	\$47.45	\$284.70	\$0.00	\$284.70	\$284.70
1030	DSD8806T6LXT	BB TPL 6 DEG DOWNTILT	2	0				\$5,073.50	\$2,536.75	\$5,073.50	\$0.00	\$5,073.50	\$5,073.50
1031	DSD8882A1000	BIDIRECTIONAL SENSOR	4	0				\$639.48	\$159.87	\$639.48	\$0.00	\$639.48	\$639.48
1032		** Racks **											
1033	TRN7342	SEVEN FOOT RACK	9	0				\$3,087.90	\$343.10	\$3,087.90	\$0.00	\$3,087.90	\$3,087.90
1034		** Power System **											
1035	DQUT3KH19MBS	3KVA/3KV 24V IN, 120/240V OUT	1	0				\$3,968.28	\$3,968.28	\$3,968.28	\$0.00	\$3,968.28	\$3,968.28
1036	DQTPW48S800313B	TWINPACK, 48V/800A IM CAP 402A	1	0				\$25,746.37	\$25,746.37	\$25,746.37	\$0.00	\$25,746.37	\$25,746.37
1037	DS48TEL125F1RZ24	48V 361 A HR 3 TRAY BATTERY SYSTEM	1	0				\$3,765.34	\$3,765.34	\$3,765.34	\$0.00	\$3,765.34	\$3,765.34
1038	DC8411100120	CIRCUIT BREAKER PANEL	6	0				\$1,699.44	\$283.24	\$1,699.44	\$0.00	\$1,699.44	\$1,699.44
1039	DS1329120100	20AMP BREAKER	38	0				\$859.94	\$22.63	\$859.94	\$0.00	\$859.94	\$859.94
1040													
1041	**REMOTE RE SITES**	REMOTE TERMINAL UNIT											
1042	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0				\$1,443.94	\$1,443.94	\$1,443.94	\$0.00	\$1,443.94	\$1,443.94
1043	V051	ALT: NEMA TO RACKMOUNT	1	0				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1044	V345	ADD: ASYNC RS232	7	0				\$792.05	\$113.15	\$792.05	\$0.00	\$792.05	\$792.05
1045	V418	REPLACE 8-SLOT MB W/8CPU/NO I/O	1	0				\$146.00	\$146.00	\$146.00	\$0.00	\$146.00	\$146.00
1046	V425	ADD: MOSCAD CPU 300	6	0				\$5,894.16	\$972.36	\$5,894.16	\$0.00	\$5,894.16	\$5,894.16
1047	V120	ADD: 8 MOD W/EXPANSION MODULE	1	0				\$693.50	\$693.50	\$693.50	\$0.00	\$693.50	\$693.50
1048	V437	ADD: 8A15V MODULE	7	0				\$3,341.94	\$477.42	\$3,341.94	\$0.00	\$3,341.94	\$3,341.94
1049	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0				\$1,443.94	\$1,443.94	\$1,443.94	\$0.00	\$1,443.94	\$1,443.94
1050	V051	ALT: NEMA TO RACKMOUNT	1	0				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1051	V368	REPL: 8-SLOT MB W/4CPU/4I/O	1	0				\$146.00	\$146.00	\$146.00	\$0.00	\$146.00	\$146.00
1052	V274	DEL: 3 AMP PS AND BATTERY	1	0				(\$240.90)	(\$240.90)	(\$240.90)	\$0.00	(\$240.90)	(\$240.90)
1053	V425	ADD: CPU 300	1	0				\$972.36	\$972.36	\$972.36	\$0.00	\$972.36	\$972.36
1054	V345	ADD: ASYNC RS232	1	0				\$113.15	\$113.15	\$113.15	\$0.00	\$113.15	\$113.15
1055	V380	ADD: 60 DI. MODULE	1	0				\$277.40	\$277.40	\$277.40	\$0.00	\$277.40	\$277.40
1056	V516	ADD: 1600 LATCH MODULE	1	0				\$375.95	\$375.95	\$375.95	\$0.00	\$375.95	\$375.95
1057	F6933	SERIES 300 CPU	1	0				\$1,045.36	\$1,045.36	\$1,045.36	\$0.00	\$1,045.36	\$1,045.36
1058	V345	ADD: ASYNC RS232	1	0				\$113.15	\$113.15	\$113.15	\$0.00	\$113.15	\$113.15
1059	V104	ADD: 2400 DIAL-UP	1	0				\$300.76	\$300.76	\$300.76	\$0.00	\$300.76	\$300.76
1060	FKN400	FLAT OVAL 2.5M CABLE	9	0				\$98.55	\$98.55	\$98.55	\$0.00	\$98.55	\$98.55
1061	FRN5727	LAN ADAPTER ASSEMBLY	2	0				\$73.00	\$73.00	\$73.00	\$0.00	\$73.00	\$73.00
1062	FRN5734	CPU RS-232 MULTIPLEXER INTF 1 TO 4	6	0				\$1,095.00	\$182.50	\$1,095.00	\$0.00	\$1,095.00	\$1,095.00
1063	FKN5934	EXTERNAL DC PS TO MB CABLE	1	0				\$10.95	\$10.95	\$10.95	\$0.00	\$10.95	\$10.95
1064		Microwave											
1065		FOREST HILL TOTAL	2	0				\$99,354.00	\$49,667.00	\$99,354.00	\$22,500.00	\$144,334.00	\$144,334.00
1066													\$922,661.02

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
						Total \$	Material Unit Cost				
1067		City and County of San Francisco Motorola Proposal for Bid No. 168									
1068		Rev: 7/97									
1069		Item Description									
1070		Qty									
1071		Man Hours Per Unit									
1072		Labor Hrs Rate									
1073		Total \$									
1074		Material Unit Cost									
1075		Total \$									
1076		Subcontracts Unit Cost									
1077		Total \$									
1078		Total Costs									
1079		Item Description									
1080		Qty									
1081		Man Hours Per Unit									
1082		Labor Hrs Rate									
1083		Total \$									
1084		Material Unit Cost									
1085		Total \$									
1086		Subcontracts Unit Cost									
1087		Total \$									
1088		Total Costs									
1089		Item Description									
1090		Qty									
1091		Man Hours Per Unit									
1092		Labor Hrs Rate									
1093		Total \$									
1094		Material Unit Cost									
1095		Total \$									
1096		Subcontracts Unit Cost									
1097		Total \$									
1098		Total Costs									
1099		Item Description									
1100		Qty									
1101		Man Hours Per Unit									
1102		Labor Hrs Rate									
1103		Total \$									
1104		Material Unit Cost									
1105		Total \$									
1106		Subcontracts Unit Cost									
1107		Total \$									
1108		Total Costs									
1109		Item Description									
1110		Qty									
1111		Man Hours Per Unit									
1112		Labor Hrs Rate									
1113		Total \$									
1114		Material Unit Cost									
1115		Total \$									
1116		Subcontracts Unit Cost									
1117		Total \$									
1118		Total Costs									

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours			Labor Hrs Rate	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
			Qty	Per Unit	Total		Total \$	Material Unit Cost				
1119		City and County of San Francisco										
		Motorola Proposal for Bid No. 168										
1120	TRN7342	** Racks ** SEVEN FOOT RACK	9		0		\$0.00	\$3,433.10	\$3,087.90	\$0.00	\$3,087.90	
1121		** Power System ** 3KV/3RW 24V IN, 120/240V OUT	1		0		\$0.00	\$3,968.28	\$3,968.28	\$0.00	\$3,968.28	
1122	DQUT3KH19MBS	TWINPACK 48V/800A IM CAP 400A	1		0		\$0.00	\$25,746.37	\$25,746.37	\$0.00	\$25,746.37	
1124	DS48TEL125F1R2Z4	48V 361 A HR 3 TRAY BATTERY SYSTEM	1		0		\$0.00	\$3,765.34	\$3,765.34	\$0.00	\$3,765.34	
1125	DOB411100120	CIRCUIT BREAKER PANEL	6		0		\$0.00	\$1,699.44	\$1,699.44	\$0.00	\$1,699.44	
1126	DST329120100	20AMP BREAKER	38		0		\$0.00	\$22.63	\$859.94	\$0.00	\$859.94	
1127		**REMOTE RF SITES**										
1128	F6900	REMOTE TERMINAL UNIT	1		0		\$0.00	\$1,443.94	\$1,443.94	\$0.00	\$1,443.94	
1129	V051	MOSCAD EXTERNAL MODEM COMMUNICATIO	1		0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1130	V345	ALT: NEMA TO RACKMOUNT	7		0		\$0.00	\$113.15	\$792.05	\$0.00	\$792.05	
1131	V418	ADD: ASYNC RS232	1		0		\$0.00	\$146.00	\$146.00	\$0.00	\$146.00	
1132	V425	REPLACE 8-SLOT MB W/BCPU+MO I/O	6		0		\$0.00	\$972.36	\$5,834.16	\$0.00	\$5,834.16	
1133	V425	ADD: MOSCAD CPU 300	1		0		\$0.00	\$693.50	\$693.50	\$0.00	\$693.50	
1134	V437	ADD: 8 MOD W/EXPANSION MODULE	7		0		\$0.00	\$477.42	\$3,341.94	\$0.00	\$3,341.94	
1135	V051	ADD: 8A15V MODULE	1		0		\$0.00	\$1,443.94	\$1,443.94	\$0.00	\$1,443.94	
1136	V369	MOSCAD EXTERNAL MODEM COMMUNICATIO	1		0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1137	V274	ALT: NEMA TO RACKMOUNT	1		0		\$0.00	\$146.00	\$146.00	\$0.00	\$146.00	
1138	V425	REPL: 8-SLOT MB W/ACPU+4MO	1		0		\$0.00	\$240.90	\$240.90	\$0.00	\$240.90	
1139	V425	DEL: 3 AMP PS AND BATTERY	1		0		\$0.00	\$972.36	\$972.36	\$0.00	\$972.36	
1140	V345	ADD: CPU 300	1		0		\$0.00	\$113.15	\$113.15	\$0.00	\$113.15	
1141	V380	ADD: ASYNC RS232	1		0		\$0.00	\$277.40	\$277.40	\$0.00	\$277.40	
1142	V516	ADD: 60 DI MODULE	1		0		\$0.00	\$375.95	\$375.95	\$0.00	\$375.95	
1143	F6933	ADD: 1600 LATCH MODULE	1		0		\$0.00	\$1,045.36	\$1,045.36	\$0.00	\$1,045.36	
1144	V345	ADD: ASYNC RS232	1		0		\$0.00	\$113.15	\$113.15	\$0.00	\$113.15	
1146	V104	ADD: 2400 DIAL-UP	1		0		\$0.00	\$300.76	\$300.76	\$0.00	\$300.76	
1147	FRN4400	FLAT OVAL 2.5M CABLE	9		0		\$0.00	\$10.95	\$98.55	\$0.00	\$98.55	
1148	FRN5727	LAN ADAPTER ASSEMBLY	2		0		\$0.00	\$36.50	\$73.00	\$0.00	\$73.00	
1149	FRN5734	CPU RS-232 MULTIPLEXER INTF 1 TO 4	6		0		\$0.00	\$182.50	\$1,095.00	\$0.00	\$1,095.00	
1150	FRN5934	EXTERNAL DC PS TO MB CABLE	1		0		\$0.00	\$10.95	\$10.95	\$0.00	\$10.95	
1151		Microwave	2		0		\$0.00	\$49,667.00	\$99,334.00	\$22,500.00	\$144,334.00	
1152		ONE MARKET PLAZA TOTAL							\$45,000.00	\$1,001,045.02	\$1,001,045.02	
1153		** Remote Controllers **										
1154		Sib 7: Clay Jones **	1		0		\$12,699.50	\$0.00	\$0.00	\$0.00	\$12,699.50	
1155		Remote Controllers **	1		0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1156	T5293A	SIMULCAST 28 CHAN REMOTE CONTROLLER	1		0		\$0.00	\$20,741.49	\$20,741.49	\$0.00	\$20,741.49	
1157	D611	ADD: 21 CHANNEL CAPACITY	1		0		\$0.00	\$16,650.57	\$16,650.57	\$0.00	\$16,650.57	
1158	D179	ADD: SPARE BOARDS	1		0		\$0.00	\$7,090.49	\$7,090.49	\$0.00	\$7,090.49	
1159	Z389	ADD: ASTRO 2.0.3 MIXED MODE	1		0		\$0.00	\$4,708.50	\$4,708.50	\$0.00	\$4,708.50	
1160		** TeNsr Network Server **										
1161	DSPREMB918	UNIVERSAL ENCLOSURE TENSIR800	2		0		\$0.00	\$1,095.00	\$2,190.00	\$0.00	\$2,190.00	
1162	DSPREMB902	DC POWER SUPPLY 48 VDC	4		0		\$0.00	\$912.50	\$3,650.00	\$0.00	\$3,650.00	
1163	DSPREMB920	INTERFACE CARDS, 8 T1/E1 INTFC	2		0		\$0.00	\$1,642.50	\$3,285.00	\$0.00	\$3,285.00	
1164	DSPREMB801	CPU CNTRL CARD W/2 T1/E1, RED 256	2		0		\$0.00	\$4,106.25	\$16,425.00	\$0.00	\$16,425.00	
1165	DSPREMB014	WAN CARD, DUAL T1/E1 INTERFACE	2		0		\$0.00	\$1,781.20	\$3,562.40	\$0.00	\$3,562.40	
1166	DSPREMB010	WAN CARD, DUAL T1/E1 INTERFACE	2		0		\$0.00	\$1,551.25	\$3,102.50	\$0.00	\$3,102.50	
1167	DSPREMB12	CSU PLUG IN MODULE	8		0		\$0.00	\$912.50	\$7,300.00	\$0.00	\$7,300.00	
1168	DSPREMB220	DATA CARD, 10 PORT RS232C SUB-RATE	4		0		\$0.00	\$2,190.00	\$8,760.00	\$0.00	\$8,760.00	
1169	DSPREMSM2	DIGITAL SIMULCAST MEDEMI	6		0		\$0.00	\$6,935.00	\$41,610.00	\$0.00	\$41,610.00	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Qty	Man Hours Per Unit	Labor Hrs Rate	Rev. 7/97 Project Cost Itemization Schedule			Subcontracts Unit Cost	Total \$	Total \$	Total Costs
						Total \$	Material Unit Cost	Total \$				
1170		** Repeaters **										
1171	DOMFS205	GPS RX/CONTROLLER 28 CH	1			\$0.00	\$39,470.37	\$0.00	\$39,470.37	\$0.00	\$39,470.37	
1172	C95ED	QUANTAR/QUANTRO FAMILY	23			\$0.00	\$4,946.48	\$0.00	\$4,946.48	\$0.00	\$113,769.04	
1173	0031C	QUANTAR/QUANTRO CONFIGURATION	23			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1174	X750	ADD: 100W 800 MHZ OPERATION	23			\$0.00	\$4,609.22	\$0.00	\$4,609.22	\$0.00	\$106,012.06	
1175	X897 A	ENH: S26809 ASTR CAL TRK QATAR	23			\$0.00	\$803.00	\$0.00	\$803.00	\$0.00	\$18,469.00	
1176	X337	ALT: CABLE, 50FT REPEATER	23			\$0.00	\$63.51	\$0.00	\$63.51	\$0.00	\$1,460.73	
1177	X888	ADD: GPS SIMULCAST	23			\$0.00	\$730.00	\$0.00	\$730.00	\$0.00	\$16,790.00	
1178	X889	ADD: INTFC. WIRELINE, 9.6 KB	23			\$0.00	\$365.00	\$0.00	\$365.00	\$0.00	\$8,395.00	
1179	X153	ADD: HARDWARE, RACKMOUNT	23			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1180	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	23			\$0.00	\$146.00	\$0.00	\$146.00	\$0.00	\$3,358.00	
1181	DSD8882A350	BIDIRECTIONAL SENSOR	23			\$0.00	\$159.87	\$0.00	\$159.87	\$0.00	\$3,677.01	
1182	HMH1001	TEST MICROPHONE	5			\$0.00	\$42.34	\$0.00	\$42.34	\$0.00	\$211.70	
1183	HSN1000 R	6W AMPLIFIED EXTERNAL SPRK-PA AUDIO	5			\$0.00	\$72.27	\$0.00	\$72.27	\$0.00	\$361.35	
1184	TRN7738	CABLE FOR EXTERNAL 6W SPEAKER	5			\$0.00	\$36.50	\$0.00	\$36.50	\$0.00	\$182.50	
1185	TRN4589	DUAL PHONE LINE SUPPRESSOR	23			\$0.00	\$64.42	\$0.00	\$64.42	\$0.00	\$1,481.66	
1186		** Antenna System **										
1187	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	20			\$0.00	\$2.12	\$0.00	\$2.12	\$0.00	\$42.40	
1188	TDN8814	1/2" CONNECTOR, N PLUG LDF PLTD	12			\$0.00	\$32.85	\$0.00	\$32.85	\$0.00	\$394.20	
1189	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	450			\$0.00	\$5.18	\$0.00	\$5.18	\$0.00	\$2,331.00	
1190	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	12			\$0.00	\$80.30	\$0.00	\$80.30	\$0.00	\$963.60	
1191	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	12			\$0.00	\$80.30	\$0.00	\$80.30	\$0.00	\$963.60	
1192	TDN6674	7/8" CABLE GROUND CLAMP KIT	18			\$0.00	\$24.46	\$0.00	\$24.46	\$0.00	\$440.28	
1193	TDN8964	7/8" SNAP-IN HANGER KIT, 10PK	15			\$0.00	\$39.42	\$0.00	\$39.42	\$0.00	\$591.30	
1194	TDN6872	7/8" CABLE HOISTING GRIP	6			\$0.00	\$36.50	\$0.00	\$36.50	\$0.00	\$219.00	
1195	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	350			\$0.00	\$3.07	\$0.00	\$3.07	\$0.00	\$1,074.50	
1196	TDN8809	1/2" CONNECTOR, N PLUG S-FLEX PLTD	46			\$0.00	\$37.78	\$0.00	\$37.78	\$0.00	\$1,737.88	
1197	TDN9289	CABLE WRAP, WEATHERPROOFING	6			\$0.00	\$27.38	\$0.00	\$27.38	\$0.00	\$164.28	
1198	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	350			\$0.00	\$1.39	\$0.00	\$1.39	\$0.00	\$486.50	
1199	TDN9714	1/4" CONN, N PLUG S-FLEX (PLTD)	23			\$0.00	\$10.59	\$0.00	\$10.59	\$0.00	\$281.29	
1200	TDN9715	1/4" CONN, BMC PLUG S-FLEX (PLTD)	23			\$0.00	\$12.23	\$0.00	\$12.23	\$0.00	\$243.57	
1201	DSTJDB0008T	COMBINER, 806-1K MHZ, 8CH, CAV-FER, CWA	4			\$0.00	\$9,135.95	\$0.00	\$9,135.95	\$0.00	\$36,543.80	
1202	DSRMC80024	RMC 806-824 MHZ, 24CH, CWA	2			\$0.00	\$3,003.95	\$0.00	\$3,003.95	\$0.00	\$6,007.90	
1203	RRX4039A	LIGHTNING SUPPRESSOR	6			\$0.00	\$47.45	\$0.00	\$47.45	\$0.00	\$284.70	
1204	DSD880616TLXT	BB TPL 6 DEG DOWN/TILT	2			\$0.00	\$2,536.75	\$0.00	\$2,536.75	\$0.00	\$5,073.50	
1205	DSD88882A1000	BIDIRECTIONAL SENSOR	4			\$0.00	\$159.87	\$0.00	\$159.87	\$0.00	\$639.48	
1206		** Racks **										
1207	TRN7342	SEVEN FOOT RACK	9			\$0.00	\$343.10	\$0.00	\$343.10	\$0.00	\$3,087.90	
1208		** Power System **										
1209	DQUT3KH19MBS	3KV/3KW 24V IN, 120/240V OUT	1			\$0.00	\$3,968.28	\$0.00	\$3,968.28	\$0.00	\$3,968.28	
1210	DQUTWP48S800313B	TWINPACK -48V/800A IM CAP 400A	1			\$0.00	\$25,746.37	\$0.00	\$25,746.37	\$0.00	\$25,746.37	
1211	DS-48TEL125F1R224	48V 361 A HR 3 TRAY BATTERY SYSTEM	1			\$0.00	\$3,765.34	\$0.00	\$3,765.34	\$0.00	\$3,765.34	
1212	DQ841100120	CIRCUIT BREAKER PANEL	6			\$0.00	\$283.24	\$0.00	\$283.24	\$0.00	\$1,699.44	
1213	DS1328120100	20AMP BREAKER	38			\$0.00	\$22.63	\$0.00	\$22.63	\$0.00	\$859.94	
1214		** REMOTE RF SITES **										
1215	F6900	REMOTE TERMINAL UNIT	1			\$0.00	\$1,443.94	\$0.00	\$1,443.94	\$0.00	\$0.00	
1216	V051	MOSCAD EXTERNAL MODEM COMMUNICATIO	1			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1217	V345	ALT: NIEMA TO RACKMOUNT	7			\$0.00	\$113.15	\$0.00	\$113.15	\$0.00	\$792.05	
1218	V418	ADD: ASYNC RS232	1			\$0.00	\$146.00	\$0.00	\$146.00	\$0.00	\$146.00	
1219	V425	REPLACE 8-SLOT MB W/8CPU+NO I/O	6			\$0.00	\$972.36	\$0.00	\$972.36	\$0.00	\$5,834.16	
1220	V120	ADD: MOSCAD CPU 300	6			\$0.00	\$693.50	\$0.00	\$693.50	\$0.00	\$5,834.16	
1221	V120	ADD: 8 MOD W/EXPANSION MODULE	1			\$0.00	\$593.50	\$0.00	\$593.50	\$0.00	\$0.00	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Qty	Item Description	Man Hours Per Unit	Total	Labour Hrs Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Total \$	Total Costs
1221	V437	7	ADD: BA15V MODULE				\$0.00	\$477.42	\$3,341.94		\$0.00	\$0.00	\$0.00
1222	F6900	1	MOSCAD EXTERNAL MODEM COMMUNICATIO				\$0.00	\$1,443.94	\$1,443.94		\$0.00	\$0.00	\$0.00
1224	V051	1	ALT: NEMA TO RACKMOUNT				\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1225	V369	1	REPL: 8-SLOT MB W/4CPU+4I/O				\$0.00	\$146.00	\$146.00		\$0.00	\$0.00	\$0.00
1226	V274	1	DEL: 3 AMP PS AND BATTERY				\$0.00	(\$240.90)	(\$240.90)		\$0.00	\$0.00	\$0.00
1227	V425	1	ADD: CPU 300				\$0.00	\$972.36	\$972.36		\$0.00	\$0.00	\$0.00
1228	V345	1	ADD: ASYNC RS232				\$0.00	\$113.15	\$113.15		\$0.00	\$0.00	\$0.00
1229	V380	1	ADD: 60 DI. MODULE				\$0.00	\$277.40	\$277.40		\$0.00	\$0.00	\$0.00
1230	V516	1	ADD: 16DO LATCH MODULE				\$0.00	\$375.95	\$375.95		\$0.00	\$0.00	\$0.00
1231	F6933	1	SERIES 300 CPU				\$0.00	\$1,045.36	\$1,045.36		\$0.00	\$0.00	\$0.00
1232	V345	1	ADD: ASYNC RS232				\$0.00	\$113.15	\$113.15		\$0.00	\$0.00	\$0.00
1233	V104	1	ADD: 2400 DIAL-UP				\$0.00	\$300.76	\$300.76		\$0.00	\$0.00	\$0.00
1234	FKM400	5	FLAT OVAL 2.5M CABLE				\$0.00	\$98.55	\$98.55		\$0.00	\$0.00	\$0.00
1235	FRN5727	2	LAN ADAPTER ASSEMBLY				\$0.00	\$36.50	\$73.00		\$0.00	\$0.00	\$0.00
1236	FRN5734	6	CPU RS-232 MULTIPLEXER INTF 1 TO 4				\$0.00	\$182.50	\$1,095.00		\$0.00	\$0.00	\$0.00
1237	FKN5934	1	EXTERNAL DC PS TO MB CABLE				\$0.00	\$10.95	\$10.95		\$0.00	\$0.00	\$0.00
1238													
1239		2	Microwave				\$0.00	\$49,667.00	\$99,334.00	\$22,500.00	\$45,000.00	\$144,334.00	\$144,334.00
1240			CLAY JONES TOTAL						\$99,334.00	\$22,500.00	\$144,334.00	\$144,334.00	\$144,334.00
1241		1	Site 8: South Hill ---				\$32,699.50	\$0.00	\$32,699.50	\$372,782.50	\$372,782.50	\$405,482.00	\$405,482.00
1242			** Remote Controllers **										
1243	T5293A	1	SIMULCAST 28 CHAN REMOTE CONTROLLER				\$0.00	\$20,741.49	\$20,741.49		\$0.00	\$0.00	\$20,741.49
1244	D611	1	ADD: 21 CHANNEL CAPACITY				\$0.00	\$16,650.57	\$16,650.57		\$0.00	\$0.00	\$16,650.57
1245	D179	1	ADD: SPARE BOARDS				\$0.00	\$7,090.49	\$7,090.49		\$0.00	\$0.00	\$7,090.49
1246	Z389	1	ADD: ASTRO 2.0.3 MIXED MODE				\$0.00	\$4,708.50	\$4,708.50		\$0.00	\$0.00	\$4,708.50
1247		2	** TenSvr Network Server **				\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1248	DSPREM8918	1	UNIVERSAL ENCLOSURE TENS/800				\$0.00	\$1,095.00	\$1,095.00		\$0.00	\$0.00	\$1,095.00
1249	DSPREM8902	4	DC POWER SUPPLY 48 VDC				\$0.00	\$912.50	\$3,650.00		\$0.00	\$0.00	\$3,650.00
1250	DSPREM8920	2	INTERFACE CARDS, 8 T1/E1 INTFC				\$0.00	\$1,642.50	\$3,285.00		\$0.00	\$0.00	\$3,285.00
1251	DSPREM8801	4	CPU CNTRL CARD W/2 T1/E1, RED 256				\$0.00	\$4,106.25	\$16,425.00		\$0.00	\$0.00	\$16,425.00
1252	DSPREM8014	2	WAN CARD, DUAL T1/E1 INTERFACE				\$0.00	\$1,781.20	\$3,562.40		\$0.00	\$0.00	\$3,562.40
1253	DSPREM8010	2	WAN CARD, DUAL T1/E1 INTERFACE				\$0.00	\$1,551.25	\$3,102.50		\$0.00	\$0.00	\$3,102.50
1254	DSPREM812	8	CSU PLUG IN MODULE				\$0.00	\$912.50	\$7,300.00		\$0.00	\$0.00	\$7,300.00
1255	DSPREM8220	4	DATA CARD, 10 PORT RS232C SUB-RATE				\$0.00	\$2,190.00	\$8,760.00		\$0.00	\$0.00	\$8,760.00
1256	DSPREMDSM2	6	DIGITAL SIMULCAST MEDEM-II				\$0.00	\$6,935.00	\$41,610.00		\$0.00	\$0.00	\$41,610.00
1257			** Repeaters **										
1258	DOMFS205	1	GPS RX/CONTROLLER 28 CH				\$0.00	\$39,470.37	\$39,470.37		\$0.00	\$0.00	\$39,470.37
1259	C99E2	23	QUANTAR/QUANTRO FAMILY				\$0.00	\$4,946.48	\$113,769.04		\$0.00	\$0.00	\$113,769.04
1260	091C	23	QUANTAR/QUANTRO CONFIGURATION				\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1261	X750	23	ADD: 100W 800 MHZ OPERATION				\$0.00	\$4,609.22	\$106,012.06		\$0.00	\$0.00	\$106,012.06
1262	X687 A	23	ENH: SZ6809 ASTR GAL TRK QTR				\$0.00	\$803.00	\$18,469.00		\$0.00	\$0.00	\$18,469.00
1263	X337	23	ALT: CABLE 50FT REPEATER				\$0.00	\$63.51	\$1,460.73		\$0.00	\$0.00	\$1,460.73
1264	X688	23	ADD: GPS SIMULCAST				\$0.00	\$730.00	\$16,790.00		\$0.00	\$0.00	\$16,790.00
1265	X889	23	ADD: INTFC, WIRELINE, 9.6 KB				\$0.00	\$365.00	\$8,395.00		\$0.00	\$0.00	\$8,395.00
1266	X153	23	ADD: HARDWARE, RACKMOUNT				\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1267	X113	23	ALT: DC ONLY OP. DC TO DC CONVERTER				\$0.00	\$146.00	\$3,358.00		\$0.00	\$0.00	\$3,358.00
1268	DSDB8882A350	23	BIDIRECTIONAL SENSOR				\$0.00	\$159.87	\$3,677.01		\$0.00	\$0.00	\$3,677.01
1269	HMN1001	5	TEST MICROPHONE				\$0.00	\$42.34	\$211.70		\$0.00	\$0.00	\$211.70
1270	HSN1000 R	5	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO				\$0.00	\$72.27	\$361.35		\$0.00	\$0.00	\$361.35
1271	TRN7738	5	CABLE FOR EXTERNAL 6W SPEAKER				\$0.00	\$36.50	\$182.50		\$0.00	\$0.00	\$182.50
1272	TRN4589	23	DUAL PHONE LINE SUPPRESSOR				\$0.00	\$64.42	\$1,481.66		\$0.00	\$0.00	\$1,481.66

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 797		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Per Unit	Total	Material	Unit	Cost	Total	Cost	Total	Cost	Total
				Rate	\$			\$	\$	\$	\$	\$	\$
1273		** Antenna System **											
1274	L1705	12" LDF HELIAX, POLY JKT, PER FOOT	20		\$0.00	\$2.12		\$42.40	\$0.00		\$42.40		\$42.40
1275	TDN8814	1/2" CONNECTOR, N PLUG LDF PLTD	12		\$0.00	\$32.85		\$394.20	\$0.00		\$394.20		\$394.20
1276	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	900		\$0.00	\$5.18		\$4,662.00	\$0.00		\$4,662.00		\$4,662.00
1277	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	12		\$0.00	\$80.30		\$963.60	\$0.00		\$963.60		\$963.60
1278	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	12		\$0.00	\$80.30		\$963.60	\$0.00		\$963.60		\$963.60
1279	TDN6674	7/8" CABLE GROUND CLAMP KIT	18		\$0.00	\$24.46		\$440.28	\$0.00		\$440.28		\$440.28
1280	TDN8964	7/8" SNAP-IN HANGER KIT, 10PK	20		\$0.00	\$39.42		\$788.40	\$0.00		\$788.40		\$788.40
1281	TDN6872	7/8" CABLE HOISTING GRIP	6		\$0.00	\$36.50		\$219.00	\$0.00		\$219.00		\$219.00
1282	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	350		\$0.00	\$3.07		\$1,074.50	\$0.00		\$1,074.50		\$1,074.50
1283	TDN6809	1/2" CONNECTOR, N PLUG S-FLEX PLTD	46		\$0.00	\$37.78		\$1,737.88	\$0.00		\$1,737.88		\$1,737.88
1284	TDN9289	CABLE WRAP, WEATHERPROOFING	6		\$0.00	\$27.38		\$164.28	\$0.00		\$164.28		\$164.28
1285	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	350		\$0.00	\$1.39		\$486.50	\$0.00		\$486.50		\$486.50
1286	TDN9714	1/4" CONN, N PLUG S-FLEX (PLTD)	23		\$0.00	\$12.23		\$281.29	\$0.00		\$281.29		\$281.29
1287	TDN9715	1/4" CONN, BNC PLUG S-FLEX (PLTD)	23		\$0.00	\$10.59		\$243.57	\$0.00		\$243.57		\$243.57
1288	DSTJDR008T	COMBINER, 806-1K MHZ, 8CH, CAV/FR CWA	4		\$0.00	\$9,135.95		\$36,543.80	\$0.00		\$36,543.80		\$36,543.80
1289	DSRMC80024	RMC 806-824 MHZ, 24CH, CWA	2		\$0.00	\$3,003.95		\$6,007.90	\$0.00		\$6,007.90		\$6,007.90
1290	RRX4039A	LIGHTNING SUPPRESSOR	6		\$0.00	\$47.45		\$284.70	\$0.00		\$284.70		\$284.70
1291	DSDB80616TLXT	BB TPL 6 DEG DOWNTILT	2		\$0.00	\$2,536.75		\$5,073.50	\$0.00		\$5,073.50		\$5,073.50
1292	DSDB8862A1000	BIDIRECTIONAL SENSOR	4		\$0.00	\$159.87		\$639.48	\$0.00		\$639.48		\$639.48
1293		** Racks **											
1294	TRN7342	SEVEN FOOT RACK	9		\$0.00	\$343.10		\$3,087.90	\$0.00		\$3,087.90		\$3,087.90
1295		** Power System **											
1296	DQJTK3KH19MBS	3KV/3KW 24V IN, 120/240V OUT	1		\$0.00	\$3,968.28		\$3,968.28	\$0.00		\$3,968.28		\$3,968.28
1297	DQJYWP48S600313B	TWINPACK -48V/800A IM CAP 400A	1		\$0.00	\$25,746.37		\$25,746.37	\$0.00		\$25,746.37		\$25,746.37
1298	DS48TEL125F4R224	48V 361 A HR 3 TRAY BATTERY SYSTEM	1		\$0.00	\$3,765.34		\$3,765.34	\$0.00		\$3,765.34		\$3,765.34
1299	DQ8411100120	CIRCUIT BREAKER PANEL	6		\$0.00	\$283.24		\$1,699.44	\$0.00		\$1,699.44		\$1,699.44
1300	DS1329120100	20AMP BREAKER	38		\$0.00	\$22.63		\$859.94	\$0.00		\$859.94		\$859.94
1301		** REMOTE RF SITES **											
1302	F6900	REMOTE TERMINAL UNIT	1		\$0.00	\$1,443.94		\$1,443.94	\$0.00		\$1,443.94		\$1,443.94
1303	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1		\$0.00	\$0.00		\$0.00	\$0.00		\$0.00		\$0.00
1304	V051	ALT: NEMA TO RACK MOUNT	1		\$0.00	\$0.00		\$0.00	\$0.00		\$0.00		\$0.00
1305	V345	ADD: ASYNC RS232	7		\$0.00	\$113.15		\$792.05	\$0.00		\$792.05		\$792.05
1306	V418	REPLACE 8-SLOT MB W/BCPU+NO I/O	1		\$0.00	\$146.00		\$146.00	\$0.00		\$146.00		\$146.00
1307	V425	ADD: MOSCAD CPU 300	6		\$0.00	\$972.36		\$5,834.16	\$0.00		\$5,834.16		\$5,834.16
1308	V120	ADD: 8 MOD W/EXPANSION MODULE	1		\$0.00	\$693.50		\$693.50	\$0.00		\$693.50		\$693.50
1309	V437	ADD: 8AI 5V MODULE	7		\$0.00	\$477.42		\$3,341.94	\$0.00		\$3,341.94		\$3,341.94
1310	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1		\$0.00	\$1,443.94		\$1,443.94	\$0.00		\$1,443.94		\$1,443.94
1311	V051	ALT: NEMA TO RACK MOUNT	1		\$0.00	\$0.00		\$0.00	\$0.00		\$0.00		\$0.00
1312	V369	REPL: 8-SLOT MB W/ACPU+I/O	1		\$0.00	\$146.00		\$146.00	\$0.00		\$146.00		\$146.00
1313	V274	DEL: 3 AMP PS AND BATTERY	1		\$0.00	\$972.36		\$972.36	\$0.00		\$972.36		\$972.36
1314	V425	ADD: CPU 300	1		\$0.00	\$113.15		\$113.15	\$0.00		\$113.15		\$113.15
1315	V345	ADD: ASYNC RS232	1		\$0.00	\$375.95		\$375.95	\$0.00		\$375.95		\$375.95
1316	V360	ADD: 60 DI MODULE	1		\$0.00	\$277.40		\$277.40	\$0.00		\$277.40		\$277.40
1317	V516	ADD: 1600 LATCH MODULE	1		\$0.00	\$375.95		\$375.95	\$0.00		\$375.95		\$375.95
1318	F6933	SERIES 300 CPU	1		\$0.00	\$1,045.36		\$1,045.36	\$0.00		\$1,045.36		\$1,045.36
1319	V345	ADD: ASYNC RS232	1		\$0.00	\$113.15		\$113.15	\$0.00		\$113.15		\$113.15
1320	V104	ADD: 2400 DIAL-UP	1		\$0.00	\$300.76		\$300.76	\$0.00		\$300.76		\$300.76
1321	FKN4400	FLAT OVAL 2.5M CABLE	9		\$0.00	\$10.95		\$98.55	\$0.00		\$98.55		\$98.55
1322	FRN5727	LAN ADAPTER ASSEMBLY	2		\$0.00	\$36.50		\$73.00	\$0.00		\$73.00		\$73.00
1323	FRN5734	CPU RS-232 MULTIPLEXER INTF 1 TO 4	6		\$0.00	\$182.50		\$1,095.00	\$0.00		\$1,095.00		\$1,095.00
1324	FKN5934	EXTERNAL DC PS TO MB CABLE	1		\$0.00	\$10.95		\$10.95	\$0.00		\$10.95		\$10.95

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours		Labor Hrs	Project Cost Itemization Schedule		Subcontracts Unit Cost	Total \$	Total \$	Total Costs
			Qty	Per Unit		Total \$	Material Unit Cost				
City and County of San Francisco											
Citywide 800MHz Radio System Project (CRRS)											
Motorola Proposal for Bid No. 168											
1325											
1326	South Hill Harris	Microwave	2	0		\$0.00	\$49,667.00	\$22,500.00	\$69,334.00	\$45,000.00	\$144,334.00
SOUTH HILL TOTAL											
1327											
1328		Site 9: Bank of America									
1329											
1330	B of A. Hasrits	Microwave	1	0		\$0.00	\$49,160.00	\$19,500.00	\$49,160.00	\$19,500.00	\$68,660.00
1331											
B OF A TOTAL											
RADIO SITE TOTALS											
1332		5: Dispatch Facilities									
1333		Site 1: CECC at Turk	1	0		\$32,699.50	\$0.00	\$0.00	\$32,699.50	\$0.00	\$32,699.50
1334		CECC TENS; Network Server **	1	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1335		UNIVERSAL ENCLOSURE TENS/R600	1	0		\$0.00	\$1,095.00	\$0.00	\$1,095.00	\$0.00	\$1,095.00
1336		DC POWER SUPPLY 48 VDC	2	0		\$0.00	\$912.50	\$0.00	\$1,825.00	\$0.00	\$1,825.00
1337		INTERFACE CARDS, 8 TIME INTFC	1	0		\$0.00	\$1,642.50	\$0.00	\$1,642.50	\$0.00	\$1,642.50
1338		CPU CNTRL CARD W/2 TIME1, RED 256	2	0		\$0.00	\$4,106.25	\$0.00	\$8,212.50	\$0.00	\$8,212.50
1339		WAN CARD, DUAL TIME1 INTERFACE	1	0		\$0.00	\$1,781.20	\$0.00	\$1,781.20	\$0.00	\$1,781.20
1340		WAN CARD, DUAL TIME1 INTERFACE	1	0		\$0.00	\$1,551.25	\$0.00	\$1,551.25	\$0.00	\$1,551.25
1341		CSU PLUG IN MODULE	2	0		\$0.00	\$912.50	\$0.00	\$1,825.00	\$0.00	\$1,825.00
1342		VOICE CARD, 8 PORT, 4 WIRE E&M/TO	5	0		\$0.00	\$1,368.75	\$0.00	\$6,843.75	\$0.00	\$6,843.75
1343		DATA CARD, 10 PORT RS232C SUB-RATE	0	0		\$0.00	\$2,190.00	\$0.00	\$2,190.00	\$0.00	\$2,190.00
1344		DATA CARD, 2 PORT V.35	1	0		\$0.00	\$1,332.25	\$0.00	\$1,332.25	\$0.00	\$1,332.25
1345											
1346											
1347											
1348	X597AE	ADD: CONV CHAN SFWR	5	0		\$0.00	\$146.00	\$0.00	\$730.00	\$0.00	\$730.00
1349	X299	ADD: TELEPHONE INTEG	3	0		\$0.00	\$73.00	\$0.00	\$219.00	\$0.00	\$219.00
1350	TDN992B	HP PENT CPU 100MHZ SERVER	1	0		\$0.00	\$3,963.90	\$0.00	\$3,963.90	\$0.00	\$3,963.90
1351	TDN1165	TOUCHSCREEN MONITOR 17"	1	0		\$0.00	\$1,565.85	\$0.00	\$1,565.85	\$0.00	\$1,565.85
1352	CDN1221	LINKBUILDER FMS II 24-PORT TP	2	0		\$0.00	\$1,003.75	\$0.00	\$2,007.50	\$0.00	\$2,007.50
1353	TDN1113	ETHERNET CABLE, 50'	40	0		\$0.00	\$16.79	\$0.00	\$671.60	\$0.00	\$671.60
1354	CDN1219	HUB EXPANSION CABLE	1	0		\$0.00	\$43.80	\$0.00	\$43.80	\$0.00	\$43.80
1355	CDN6210	SINGLE PORT WAN BRIDGE	1	0		\$0.00	\$1,269.47	\$0.00	\$1,269.47	\$0.00	\$1,269.47
1356	CDN6213	V.35 CABLE MALE/MALE 20FT	1	0		\$0.00	\$83.22	\$0.00	\$83.22	\$0.00	\$83.22
1357	TDN8154	ML320T EPSON PRINTER	1	0		\$0.00	\$481.07	\$0.00	\$481.07	\$0.00	\$481.07
1358	X293	ADD: GOLD ELITE OPR	38	0		\$0.00	\$2,920.00	\$0.00	\$110,960.00	\$0.00	\$110,960.00
1359	B1811 D	GOLD SERIES 4 CARD CAGE CEB	5	0		\$0.00	\$27,221.70	\$0.00	\$136,108.50	\$0.00	\$136,108.50
1360	K995 C	ALT: AIMI PAIR TRUNK	5	0		\$0.00	\$8,011.75	\$0.00	\$40,058.75	\$0.00	\$40,058.75
1361	K837AD	ADD: EXPRESS SERVICE	5	0		\$0.00	\$1,449.05	\$0.00	\$7,245.25	\$0.00	\$7,245.25
1362	K565	ADD: DIAGNOSTIC INTERFACE	38	0		\$0.00	\$217.54	\$0.00	\$8,266.52	\$0.00	\$8,266.52
1363	Q3207A	MODULE, SMART PHONE INTERFACE	3	0		\$0.00	\$995.72	\$0.00	\$2,987.16	\$0.00	\$2,987.16
1364	B1840	GOLD BASE INFC MODULE	5	0		\$0.00	\$634.37	\$0.00	\$3,171.85	\$0.00	\$3,171.85
1365	K700	ADD: PTT OUTPUT RELAY (M LEAD)	5	0		\$0.00	\$59.13	\$0.00	\$295.65	\$0.00	\$295.65
1366	B1822	GOLD SERIES ELITE/CRT DESKTOP	38	0		\$0.00	\$6,945.95	\$0.00	\$263,946.10	\$0.00	\$263,946.10
1367	K811AB	ALT: MICROPHONE, DESK	5	0		\$0.00	\$85.41	\$0.00	\$427.05	\$0.00	\$427.05
1368	K570	ADD: HEADSET JACK	38	0		\$0.00	\$160.60	\$0.00	\$6,102.80	\$0.00	\$6,102.80
1369	K704AA	ADD: SECOND HEADSET JACK	76	0		\$0.00	\$160.60	\$0.00	\$12,205.60	\$0.00	\$12,205.60
1370	K572AF	ADD: FOOTSWITCH	38	0		\$0.00	\$70.08	\$0.00	\$2,663.04	\$0.00	\$2,663.04
1371	B1442	AUXILIARY INPUT/OUTPUT INTERFACE	8	0		\$0.00	\$992.07	\$0.00	\$7,936.56	\$0.00	\$7,936.56
1372	BUN6651	HEADSET, STARSET II W/PTT	73	0		\$0.00	\$261.34	\$0.00	\$19,077.82	\$0.00	\$19,077.82
1373	TDN9927	HP PENT CPU 100Mhz CD ETH WINNT	38	0		\$0.00	\$3,149.95	\$0.00	\$119,696.10	\$0.00	\$119,696.10
1374	TDN1165	TOUCHSCREEN MONITOR 17"	38	0		\$0.00	\$1,565.85	\$0.00	\$59,502.30	\$0.00	\$59,502.30
1375	TDN9841	MOUSEPAD, 5 PACK	8	0		\$0.00	\$36.50	\$0.00	\$292.00	\$0.00	\$292.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours Per Unit	Total	Labor Hrs Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Unit Cost	Total \$
1376	DQ3221024XXTR	NET GUARDIAN DDS2 24 CH 160RPM	1	0	0	0	\$45,795.09	\$45,795.09	\$0.00	\$0.00	\$45,795.09	\$0.00	\$45,795.09
1377	DQ9926N	WORK STATION NETWORKED AUDIO	1	0	0	0	\$5,561.87	\$5,561.87	\$0.00	\$0.00	\$5,561.87	\$0.00	\$5,561.87
1378	DQ9917	FILE SERVER	1	0	0	0	\$5,610.78	\$5,610.78	\$0.00	\$0.00	\$5,610.78	\$0.00	\$5,610.78
1379	T6491	SWI SFTWR 1-10 SYS/HWR KEY	1	0	0	0	\$3,886.52	\$3,886.52	\$0.00	\$0.00	\$3,886.52	\$0.00	\$3,886.52
1380	D952	ADD: RIM II WITH CABLES	1	0	0	0	\$511.00	\$511.00	\$0.00	\$0.00	\$511.00	\$0.00	\$511.00
1381	TDN9455	PENTIUM PC	1	0	0	0	\$2,186.35	\$2,186.35	\$0.00	\$0.00	\$2,186.35	\$0.00	\$2,186.35
1382	T99DX	ASTRO DIG SPECTRA MOBILE SERIES	1	0	0	0	\$2,090.00	\$2,090.00	\$0.00	\$0.00	\$2,090.00	\$0.00	\$2,090.00
1383	130W	35W 800 806-870 A4	1	0	0	0	\$196.95	\$196.95	\$0.00	\$0.00	\$196.95	\$0.00	\$196.95
1384	G806	ENH: ASTRO DIGITAL CAI	1	0	0	0	\$401.50	\$401.50	\$0.00	\$0.00	\$401.50	\$0.00	\$401.50
1385	G51	ENH: ENHANCED SMARTNET OPERATION	1	0	0	0	\$722.70	\$722.70	\$0.00	\$0.00	\$722.70	\$0.00	\$722.70
1386	W87	DEL: SPEAKER	1	0	0	0	(\$20.44)	(\$20.44)	\$0.00	\$0.00	(\$20.44)	\$0.00	(\$20.44)
1387	W70	DEL: ANTENNA 800MHZ	1	0	0	0	(\$15.33)	(\$15.33)	\$0.00	\$0.00	(\$15.33)	\$0.00	(\$15.33)
1388	W71	DEL: MICROPHONE	1	0	0	0	(\$29.20)	(\$29.20)	\$0.00	\$0.00	(\$29.20)	\$0.00	(\$29.20)
1389	CVA8085	RSS XTS ASTRO SAB SPEC/CONSOLE	1	0	0	0	\$255.50	\$255.50	\$0.00	\$0.00	\$255.50	\$0.00	\$255.50
1390	3080369B73	CABLE, SPECTRA TO RIB, EXCPT HI PWR	1	0	0	0	\$55.85	\$55.85	\$0.00	\$0.00	\$55.85	\$0.00	\$55.85
1391	T99DX	ASTRO DIG SPECTRA MOBILE SERIES	23	0	0	0	\$2,090.00	\$48,070.00	\$0.00	\$0.00	\$48,070.00	\$0.00	\$48,070.00
1392	130W	35W 800 806-870 A4	23	0	0	0	\$156.95	\$3,609.85	\$0.00	\$0.00	\$3,609.85	\$0.00	\$3,609.85
1393	G806	ENH: ASTRO DIGITAL CAI	23	0	0	0	\$401.50	\$9,234.50	\$0.00	\$0.00	\$9,234.50	\$0.00	\$9,234.50
1394	G48	ENH: SYSTEM, CONVENTIONAL	23	0	0	0	\$160.60	\$3,693.80	\$0.00	\$0.00	\$3,693.80	\$0.00	\$3,693.80
1395	W87	DEL: SPEAKER	23	0	0	0	(\$20.44)	(\$470.12)	\$0.00	\$0.00	(\$470.12)	\$0.00	(\$470.12)
1396	W70	DEL: ANTENNA 800MHZ	23	0	0	0	(\$15.33)	(\$352.59)	\$0.00	\$0.00	(\$352.59)	\$0.00	(\$352.59)
1397	W71	DEL: MICROPHONE	23	0	0	0	(\$29.20)	(\$671.60)	\$0.00	\$0.00	(\$671.60)	\$0.00	(\$671.60)
1398	DSRMC80024	RMC 806-824 MHZ, 24CH, CWA	1	0	0	0	\$3,003.95	\$3,003.95	\$0.00	\$0.00	\$3,003.95	\$0.00	\$3,003.95
1399	TFE6441	ANTENNA, 6DB 3 ELEMENT YAGI	1	0	0	0	\$80.30	\$80.30	\$0.00	\$0.00	\$80.30	\$0.00	\$80.30
1400	RRX4049A	COAX PROTECTOR	1	0	0	0	\$75.92	\$75.92	\$0.00	\$0.00	\$75.92	\$0.00	\$75.92
1401	TDN6673	1/2" CABLE GROUND CLAMP KIT	3	0	0	0	\$19.35	\$58.05	\$0.00	\$0.00	\$58.05	\$0.00	\$58.05
1402	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	100	0	0	0	\$212.00	\$21,200.00	\$0.00	\$0.00	\$21,200.00	\$0.00	\$21,200.00
1403	TDN6677	1/2" CONNECTOR, N PLUG (MALE)	4	0	0	0	\$26.65	\$106.60	\$0.00	\$0.00	\$106.60	\$0.00	\$106.60
1404	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	150	0	0	0	\$1.39	\$208.50	\$0.00	\$0.00	\$208.50	\$0.00	\$208.50
1405	TDN8715	1/4" CONN, BNC PLUG S-FLEX (PLTD)	24	0	0	0	\$10.59	\$254.16	\$0.00	\$0.00	\$254.16	\$0.00	\$254.16
1406	TDN8958	1/4" CONN, MINI-UHF PLUG S-FLEX	24	0	0	0	\$17.70	\$424.80	\$0.00	\$0.00	\$424.80	\$0.00	\$424.80
1407	DQGB19100	BUSS BAR	1	0	0	0	\$53.29	\$53.29	\$0.00	\$0.00	\$53.29	\$0.00	\$53.29
1408	DQBPK1924VL1BR	BKR PNL W/18 3-AMP BKRS	2	0	0	0	\$940.24	\$1,880.48	\$0.00	\$0.00	\$1,880.48	\$0.00	\$1,880.48
1409	DQ11512100RM	110A RACK MOUNT P.S.	1	0	0	0	\$2,153.50	\$2,153.50	\$0.00	\$0.00	\$2,153.50	\$0.00	\$2,153.50
1410	INVAJA00	PUC SOFTWARE SETUP	1	0	0	0	\$146,000.00	\$146,000.00	\$0.00	\$0.00	\$146,000.00	\$0.00	\$146,000.00
1411	INVAJA01	PUC	38	0	0	0	\$1,460.00	\$55,480.00	\$0.00	\$0.00	\$55,480.00	\$0.00	\$55,480.00
1412													
1413	****CONSOLE/CEB	REMOTE TERMINAL UNIT****											
1414	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	0	\$1,443.94	\$1,443.94	\$0.00	\$0.00	\$1,443.94	\$0.00	\$1,443.94
1415	V051	ALT: NEMA TO RACKMOUNT	1	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1416	V329	ADD: 16DI 28VAC/DC MODULE	2	0	0	0	\$240.90	\$481.80	\$0.00	\$0.00	\$481.80	\$0.00	\$481.80
1417	V345	ADD: ASYNC RS232	1	0	0	0	\$113.15	\$113.15	\$0.00	\$0.00	\$113.15	\$0.00	\$113.15
1418	V516	ADD: 16DO LATCH MODULE	2	0	0	0	\$375.95	\$751.90	\$0.00	\$0.00	\$751.90	\$0.00	\$751.90
1419													
1420	CECC	MOSCAD FRONT END PROCESSOR											
1421	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	0	\$1,443.94	\$1,443.94	\$0.00	\$0.00	\$1,443.94	\$0.00	\$1,443.94
1422	V051	ALT: NEMA TO RACKMOUNT	1	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1423	V345	ADD: ASYNC RS232	7	0	0	0	\$113.15	\$792.05	\$0.00	\$0.00	\$792.05	\$0.00	\$792.05
1424	V418	REPL: B-SLOT MB W/8CPU+NO I/O	1	0	0	0	\$146.00	\$146.00	\$0.00	\$0.00	\$146.00	\$0.00	\$146.00
1425	V425	ADD: CPU 300	6	0	0	0	\$972.36	\$5,834.16	\$0.00	\$0.00	\$5,834.16	\$0.00	\$5,834.16
1426	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	0	\$1,443.94	\$1,443.94	\$0.00	\$0.00	\$1,443.94	\$0.00	\$1,443.94
1427	V051	ALT: NEMA TO RACKMOUNT	1	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CPRS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours Per Unit	Total	Labor Hrs Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Unit Cost	Total \$
1428	V274	DEL: 3 AMP PS AND BATTERY	1	0	\$0.00			(\$240.90)			\$0.00		\$0.00
1429	V345	ADD: ASYNC RS232	1	0	\$0.00			\$113.15			\$0.00		\$0.00
1430	V380	ADD: 60 DI. MODULE	1	0	\$0.00			\$277.40			\$0.00		\$0.00
1431	V369	REPL: 8-SLOT MB W/4CPU+4HO	1	0	\$0.00			\$146.00			\$0.00		\$0.00
1432	V516	ADD: 16DO LATCH MODULE	1	0	\$0.00			\$375.95			\$0.00		\$0.00
1433	F6933	SERIES 300 CPU	1	0	\$0.00			\$1,045.36			\$0.00		\$0.00
1434	V345	ADD: ASYNC RS232	1	0	\$0.00			\$113.15			\$0.00		\$0.00
1435	V104	ADD: 2400 DIAL-UP	1	0	\$0.00			\$300.76			\$0.00		\$0.00
1436	FKN4400	FLAT OVAL 2.5M CABLE	9	0	\$0.00			\$98.55			\$0.00		\$0.00
1437	FRN5727	LAN ADAPTER ASSEMBLY	2	0	\$0.00			\$36.50			\$0.00		\$0.00
1438	FLN6457	CPU TO COMPUTER RS232 ASYNC 3M	1	0	\$0.00			\$52.56			\$0.00		\$0.00
1439	FLN8259	COMPUTER ADAPT. 9 PIN TYPE TO RJ45	1	0	\$0.00			\$32.85			\$0.00		\$0.00
1440	TDN9871	MODEM, DESKTOP, LIFESTYLE 28.8-PC	1	0	\$0.00			\$210.97			\$0.00		\$0.00
1441	DQEVMBSM0006	MODEM CABLE	1	0	\$0.00			\$23.36			\$0.00		\$0.00
1442	F2316	MOSCAD PROGRAMMING TOOL BOX	1	0	\$0.00			\$438.00			\$0.00		\$0.00
1443	V377	ENH: 3RD PARTY DRIVER	1	0	\$0.00			\$365.00			\$0.00		\$0.00
1444	FKN5934	EXTERNAL DC PS TO MB CABLE	1	0	\$0.00			\$10.95			\$0.00		\$0.00
SECTION TOTAL													
1445		Site 2: DTIS	1	0	\$32,699.50		\$32,699.50	\$0.00	\$32,699.50	\$668,070.00	\$668,070.00	\$0.00	\$700,769.50
1446		** DTIS TeNSr Network Server **	1	0	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1447		UNIVERSAL ENCLOSURE TENSr/800	1	0	\$0.00		\$0.00	\$1,095.00	\$1,095.00	\$0.00	\$1,095.00	\$0.00	\$1,095.00
1448	DSPREMB918	DC POWER SUPPLY 48 VDC	2	0	\$0.00		\$0.00	\$912.50	\$1,825.00	\$0.00	\$1,825.00	\$0.00	\$1,825.00
1449	DSPREMB902	INTERFACE CARDS, 8 T1/E1 INTFC	2	0	\$0.00		\$0.00	\$1,642.50	\$3,285.00	\$0.00	\$3,285.00	\$0.00	\$3,285.00
1450	DSPREMB920	CPU CNTRL CARD W/2 T1/E1, RED 256	2	0	\$0.00		\$0.00	\$4,106.25	\$8,212.50	\$0.00	\$8,212.50	\$0.00	\$8,212.50
1451	DSPREMB801	WAN CARD, DUAL T1/E1 INTERFACE	1	0	\$0.00		\$0.00	\$1,781.20	\$1,781.20	\$0.00	\$1,781.20	\$0.00	\$1,781.20
1452	DSPREMB014	WAN CARD, DUAL T1/E1 INTERFACE	1	0	\$0.00		\$0.00	\$1,551.25	\$1,551.25	\$0.00	\$1,551.25	\$0.00	\$1,551.25
1453	DSPREMB010	CSU PLUG IN MODULE	2	0	\$0.00		\$0.00	\$912.50	\$1,825.00	\$0.00	\$1,825.00	\$0.00	\$1,825.00
1454	DSPREMB12	VOICE CARD, 8 PORT 4 WIRE E&M/TO	2	0	\$0.00		\$0.00	\$1,366.75	\$2,733.50	\$0.00	\$2,733.50	\$0.00	\$2,733.50
1455	DSPREMB119	DATA CARD, 10 PORT RS232C SUB-RATE	1	0	\$0.00		\$0.00	\$2,190.00	\$2,190.00	\$0.00	\$2,190.00	\$0.00	\$2,190.00
1456	DSPREMB220	DATA CARD, 2 PORT V.35	1	0	\$0.00		\$0.00	\$1,332.25	\$1,332.25	\$0.00	\$1,332.25	\$0.00	\$1,332.25
1457	DSPREMB212		1	0	\$0.00		\$0.00	\$1,332.25	\$1,332.25	\$0.00	\$1,332.25	\$0.00	\$1,332.25
1458		*****DTIS											
1459	X293	ADD: GOLD ELITE OPR	1	0	\$0.00		\$0.00	\$2,920.00	\$2,920.00	\$0.00	\$2,920.00	\$0.00	\$2,920.00
1460	B1822	GOLD SERIES ELITE/CRT DESKTOP	1	0	\$0.00		\$0.00	\$6,945.95	\$6,945.95	\$0.00	\$6,945.95	\$0.00	\$6,945.95
1461	K811AB	ALT: MICROPHONE, DESK	1	0	\$0.00		\$0.00	\$85.41	\$85.41	\$0.00	\$85.41	\$0.00	\$85.41
1462	K570	ADD: HEADSET JACK	1	0	\$0.00		\$0.00	\$160.60	\$160.60	\$0.00	\$160.60	\$0.00	\$160.60
1463	K704AA	ADD: SECOND HEADSET JACK	1	0	\$0.00		\$0.00	\$160.60	\$160.60	\$0.00	\$160.60	\$0.00	\$160.60
1464	K572AF	ADD: FOOTSWITCH	1	0	\$0.00		\$0.00	\$70.08	\$70.08	\$0.00	\$70.08	\$0.00	\$70.08
1465	K236BFP-SP	ADD: REMOTE OPERATOR	1	0	\$0.00		\$0.00	\$2,465.21	\$2,465.21	\$0.00	\$2,465.21	\$0.00	\$2,465.21
1466	BDN6651	HEADSET, STARSET II W/FTT	1	0	\$0.00		\$0.00	\$261.34	\$261.34	\$0.00	\$261.34	\$0.00	\$261.34
1467	TDN9927	HP PENT CPU 100MHZ CD EITH WINNT	1	0	\$0.00		\$0.00	\$3,149.95	\$3,149.95	\$0.00	\$3,149.95	\$0.00	\$3,149.95
1468	TDN1165	TOUCHSCREEN MONITOR 17"	1	0	\$0.00		\$0.00	\$1,565.85	\$1,565.85	\$0.00	\$1,565.85	\$0.00	\$1,565.85
1469	TDN8503	MODEM V.3225, 9600BPS, V.32 WINNIP5	1	0	\$0.00		\$0.00	\$474.50	\$474.50	\$0.00	\$474.50	\$0.00	\$474.50
1470	TDN8351	RACK ADAPTER, 19" RMTM LCD	1	0	\$0.00		\$0.00	\$54.75	\$54.75	\$0.00	\$54.75	\$0.00	\$54.75
1471	CDN6216	10 BASE-CROSS-OVER CABLE 15FT	1	0	\$0.00		\$0.00	\$12.41	\$12.41	\$0.00	\$12.41	\$0.00	\$12.41
1472	TDN1113	ETHERNET CABLE, 50'	3	0	\$0.00		\$0.00	\$16.79	\$50.37	\$0.00	\$50.37	\$0.00	\$50.37
1473	CDN6210	SINGLE PORT WAN BRIDGE	2	0	\$0.00		\$0.00	\$1,289.47	\$2,578.94	\$0.00	\$2,578.94	\$0.00	\$2,578.94
1474	CDN6213	V.35 CABLE MALE/MALE 20FT	1	0	\$0.00		\$0.00	\$83.22	\$83.22	\$0.00	\$83.22	\$0.00	\$83.22
1475	CDN6225	CABLE	1	0	\$0.00		\$0.00	\$18.25	\$18.25	\$0.00	\$18.25	\$0.00	\$18.25
1476	TDN9875	DDS/MR64 STANDALONE	1	0	\$0.00		\$0.00	\$507.35	\$507.35	\$0.00	\$507.35	\$0.00	\$507.35
1477	TDN8154	ML320T EPSON PRINTER	1	0	\$0.00		\$0.00	\$481.07	\$481.07	\$0.00	\$481.07	\$0.00	\$481.07
1478			1	0	\$0.00		\$0.00						

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Material		Subcontracts		Total		Total	
Item #	Model	Qty	Man Hours	Per Unit	Total	Rate	Labor Hrs	Total \$	Unit Cost	Total \$	Unit Cost	Total \$	Unit Cost	Total \$	Unit Cost	Total \$	
1479	INVA/A01	1		0	0	\$0.00		\$0.00	\$1,460.00	\$1,460.00		\$0.00		\$0.00		\$1,460.00	
1480	L1475	2		0	0	\$0.00		\$0.00	\$277.40	\$554.80		\$0.00		\$0.00		\$554.80	
1481	E511	2		0	0	\$0.00		\$0.00	\$21.90	\$43.80		\$0.00		\$0.00		\$43.80	
1482	E376	2		0	0	\$0.00		\$0.00	\$120.45	\$240.90		\$0.00		\$0.00		\$240.90	
1483	E384	2		0	0	\$0.00		\$0.00	\$91.25	\$182.50		\$0.00		\$0.00		\$182.50	
1484		20		0	0	\$0.00		\$0.00	\$8.21	\$164.20		\$0.00		\$0.00		\$164.20	
1485		20		0	0	\$0.00		\$0.00	\$18.25	\$365.00		\$0.00		\$0.00		\$365.00	
1486		20		0	0	\$0.00		\$0.00	\$18.25	\$365.00		\$0.00		\$0.00		\$365.00	
1487		20		0	0	\$0.00		\$0.00	\$23.54	\$470.80		\$0.00		\$0.00		\$470.80	
1488		20		0	0	\$0.00		\$0.00	\$40.15	\$803.00		\$0.00		\$0.00		\$803.00	
1489		20		0	0	\$0.00		\$0.00	\$24.82	\$496.40		\$0.00		\$0.00		\$496.40	
1490		20		0	0	\$0.00		\$0.00	\$80.30	\$1,606.00		\$0.00		\$0.00		\$1,606.00	
1491		20		0	0	\$0.00		\$0.00	\$73.00	\$1,460.00		\$0.00		\$0.00		\$1,460.00	
1492	6880392B82	20		0	0	\$0.00		\$0.00	\$3.65	\$73.00		\$0.00		\$0.00		\$73.00	
1493	B1814	2		0	0	\$0.00		\$0.00	\$2,183.43	\$4,366.86		\$0.00		\$0.00		\$4,366.86	
1494	B1844	1		0	0	\$0.00		\$0.00	\$9,744.77	\$9,744.77		\$0.00		\$0.00		\$9,744.77	
1495	B1845	1		0	0	\$0.00		\$0.00	\$1,830.84	\$1,830.84		\$0.00		\$0.00		\$1,830.84	
1496	B1813	2		0	0	\$0.00		\$0.00	\$3,613.50	\$7,227.00		\$0.00		\$0.00		\$7,227.00	
1497	B1820	1		0	0	\$0.00		\$0.00	\$4,015.00	\$4,015.00		\$0.00		\$0.00		\$4,015.00	
1498	B1792	1		0	0	\$0.00		\$0.00	\$4,279.26	\$4,279.26		\$0.00		\$0.00		\$4,279.26	
1499	B1818	1		0	0	\$0.00		\$0.00	\$3,409.10	\$3,409.10		\$0.00		\$0.00		\$3,409.10	
1500	B1819	1		0	0	\$0.00		\$0.00	\$2,418.49	\$2,418.49		\$0.00		\$0.00		\$2,418.49	
1501	B1840	4		0	0	\$0.00		\$0.00	\$634.37	\$2,537.48		\$0.00		\$0.00		\$2,537.48	
1502	X597AE	4		0	0	\$0.00		\$0.00	\$146.00	\$584.00		\$0.00		\$0.00		\$584.00	
1503																	
1504	*****DTIS****																
1505	F6900	1		0	0	\$0.00		\$0.00	\$1,443.94	\$1,443.94		\$0.00		\$0.00		\$1,443.94	
1506	V051	1		0	0	\$0.00		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00		\$0.00	
1507	V345	4		0	0	\$0.00		\$0.00	\$113.15	\$452.60		\$0.00		\$0.00		\$452.60	
1508	V380	1		0	0	\$0.00		\$0.00	\$277.40	\$277.40		\$0.00		\$0.00		\$277.40	
1509	V389	1		0	0	\$0.00		\$0.00	\$146.00	\$146.00		\$0.00		\$0.00		\$146.00	
1510	V516	1		0	0	\$0.00		\$0.00	\$375.95	\$375.95		\$0.00		\$0.00		\$375.95	
1511	V425	3		0	0	\$0.00		\$0.00	\$972.36	\$2,917.08		\$0.00		\$0.00		\$2,917.08	
1512	F6900	1		0	0	\$0.00		\$0.00	\$1,443.94	\$1,443.94		\$0.00		\$0.00		\$1,443.94	
1513	V051	1		0	0	\$0.00		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00		\$0.00	
1514	V345	1		0	0	\$0.00		\$0.00	\$113.15	\$113.15		\$0.00		\$0.00		\$113.15	
1515	V104	1		0	0	\$0.00		\$0.00	\$263.53	\$263.53		\$0.00		\$0.00		\$263.53	
1516	V389	1		0	0	\$0.00		\$0.00	\$146.00	\$146.00		\$0.00		\$0.00		\$146.00	
1517	FRN4400	5		0	0	\$0.00		\$0.00	\$10.95	\$54.75		\$0.00		\$0.00		\$54.75	
1518	FRN5727	1		0	0	\$0.00		\$0.00	\$36.50	\$36.50		\$0.00		\$0.00		\$36.50	
1519	FLN6457	1		0	0	\$0.00		\$0.00	\$52.56	\$52.56		\$0.00		\$0.00		\$52.56	
1520	FLN8259	1		0	0	\$0.00		\$0.00	\$32.85	\$32.85		\$0.00		\$0.00		\$32.85	
1521	TDN9871	1		0	0	\$0.00		\$0.00	\$210.97	\$210.97		\$0.00		\$0.00		\$210.97	
1522	DQEVMBM0006	1		0	0	\$0.00		\$0.00	\$23.36	\$23.36		\$0.00		\$0.00		\$23.36	
1523	F2316	1		0	0	\$0.00		\$0.00	\$438.00	\$438.00		\$0.00		\$0.00		\$438.00	
1524	V377	1		0	0	\$0.00		\$0.00	\$365.00	\$365.00		\$0.00		\$0.00		\$365.00	
1525																	
1526																	
1527	*****																
1528	DSPREM9918	1		0	0	\$0.00		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00		\$0.00	
1529	DSPREM9902	2		0	0	\$0.00		\$0.00	\$912.50	\$1,825.00		\$0.00		\$0.00		\$1,825.00	
1530																	
1531																	
1532																	
1533																	
1534																	
1535																	
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1537																	
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1539																	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

Item #	Model	Item Description	Man Hours		Labor		Rev: 7/97 Project Cost Itemization Schedule		Material		Subcontracts		Total \$	Total Costs
			Qty	Per Unit	Hrs	Rate	Total \$	Unit Cost	Total \$	Unit Cost	Total \$			
		City and County of San Francisco Citywide 800MHz Radio System Project (CBRS) Motorola Proposal for Bid No. 168												
1530	DSPREM8920	INTERFACE CARDS, 8 T1/E1 INTFC	1		0		\$0.00	\$1,642.50	\$0.00	\$0.00	\$0.00	\$0.00	\$1,642.50	
1531	DSPREM8801	CPU CNTRL CARD W/2 T1/E1, RED 256	2		0		\$0.00	\$8,212.50	\$0.00	\$0.00	\$0.00	\$0.00	\$8,212.50	
1532	DSPREM8014	WAN CARD, DUAL T1/E1 INTERFACE	1		0		\$0.00	\$1,781.20	\$0.00	\$0.00	\$0.00	\$0.00	\$1,781.20	
1533	DSPREM8010	WAN CARD, DUAL T1/E1 INTERFACE	1		0		\$0.00	\$1,551.25	\$0.00	\$0.00	\$0.00	\$0.00	\$1,551.25	
1534	DSPREM812	CSU PLUG IN MODULE	2		0		\$0.00	\$912.50	\$0.00	\$0.00	\$0.00	\$0.00	\$1,825.00	
1535	DSPREM8119	VOICE CARD, 8 PORT, 4 WIRE EBM/ITO	2		0		\$0.00	\$1,368.75	\$0.00	\$0.00	\$0.00	\$0.00	\$2,737.50	
1536		*****DPT												
1537	X293	ADD: GOLD ELITE OPR	4		0		\$0.00	\$2,920.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,680.00	
1538	CDN1218	LINKBUILDER FMS II 12-PORT	1		0		\$0.00	\$576.70	\$0.00	\$0.00	\$0.00	\$0.00	\$576.70	
1539	TON1113	ETHERNET CABLE, 50'	5		0		\$0.00	\$16.79	\$0.00	\$0.00	\$0.00	\$0.00	\$83.95	
1540	CDN6210	SINGLE PORT WAN BRIDGE	1		0		\$0.00	\$1,269.47	\$0.00	\$0.00	\$0.00	\$0.00	\$1,269.47	
1541	CDN6213	V.35 CABLE MALE/MALE 20FT	1		0		\$0.00	\$83.22	\$0.00	\$0.00	\$0.00	\$0.00	\$83.22	
1542	B1822	GOLD SERIES ELITE/CRT DESKTOP	4		0		\$0.00	\$6,945.95	\$0.00	\$0.00	\$0.00	\$0.00	\$27,783.80	
1543	K570	ADD: HEADSET JACK	4		0		\$0.00	\$160.60	\$0.00	\$0.00	\$0.00	\$0.00	\$642.40	
1544	K704AA	ADD: SECOND HEADSET JACK	4		0		\$0.00	\$160.60	\$0.00	\$0.00	\$0.00	\$0.00	\$642.40	
1545	K572AF	ADD: FOOTSWITCH	4		0		\$0.00	\$70.08	\$0.00	\$0.00	\$0.00	\$0.00	\$280.32	
1546	K238BPPSP	ADD: REMOTE OPERATOR	4		0		\$0.00	\$2,465.21	\$0.00	\$0.00	\$0.00	\$0.00	\$9,860.84	
1547	B0N6651	ADD: HEADSET II W/PTT	4		0		\$0.00	\$281.34	\$0.00	\$0.00	\$0.00	\$0.00	\$1,045.36	
1548	TDN9827	HP PENT CPU 100Mhz CD ETH WINNT	4		0		\$0.00	\$3,149.95	\$0.00	\$0.00	\$0.00	\$0.00	\$12,599.80	
1549	TDN1165	TOUCHSCREEN MONITOR 17"	4		0		\$0.00	\$1,565.85	\$0.00	\$0.00	\$0.00	\$0.00	\$6,263.40	
1550	TDN9841	MOUSEPAD, 5 PACK	1		0		\$0.00	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$36.50	
1551	INVJAA01	PUC	4		0		\$0.00	\$1,460.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,840.00	
1552		*****DPT												
1553	F6900	REMOTE TERMINAL UNIT	1		0		\$0.00	\$1,443.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1554	V051	MOSCAD EXTERNAL MODEM COMMUNICATIO	1		0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1555	V345	ALT. NEMA TO RACKMOUNT	1		0		\$0.00	\$113.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1556	V345	ADD: ASYNC RS232	1		0		\$0.00	\$146.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1557	V369	REPL: 8-SLOT MB W/4CPU+4I/O	1		0		\$0.00	\$1,045.36	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1558	F6983	SERIES 300 CPU	1		0		\$0.00	\$113.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1559	V345	ADD: ASYNC RS232	1		0		\$0.00	\$300.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1560	V104	ADD: 2400 DIAL-UP	1		0		\$0.00	\$2.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1561	FLN6457	CPU TO COMPUTER RS232 ASYNC 3M	1		0		\$0.00	\$32.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1562	FLN8259	COMPUTER ADAPT, 9 PIN TYPE TO RJ45	1		0		\$0.00	\$210.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1563	TDN9871	MODEM, DESKTOP, LIFESTYLE 28.8-PC	1		0		\$0.00	\$580.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1564	TDN9263	MODEM, 14,400 BPS V.32BIS	1		0		\$0.00	\$23.36	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1565	DOEVMBSMD006	MODEM CABLE	2		0		\$0.00	\$438.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1566	F2316	MOSCAD PROGRAMMING TOOL BOX	1		0		\$0.00	\$438.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1567	V377	ENH: 3RD PARTY DRIVER	1		0		\$0.00	\$385.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1568		SITE 3 TOTAL						\$385.00					\$385.00	
1569		SITE 4: CMED						\$0.00					\$0.00	
1570		** CMED Backup Power **						\$0.00					\$0.00	
1571	DGUT31016MBS	10KVA 3 PHASE 16 MIN RUN UPS	1		0		\$0.00	\$18,447.83	\$0.00	\$0.00	\$0.00	\$0.00	\$18,447.83	
1572	DGSLU321A	SYSTEM START UP	1		0		\$0.00	\$1,067.99	\$0.00	\$0.00	\$0.00	\$0.00	\$1,067.99	
1573	DO7001900016	MOUNTING SHELF	1		0		\$0.00	\$219.00	\$0.00	\$0.00	\$0.00	\$0.00	\$219.00	
1574	DO9144100216	SWITCHMODE RECTIFIER MOD	2		0		\$0.00	\$949.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,898.00	
1575		SITE 4 TOTAL						\$949.00					\$1,898.00	
1576		SITE 5: Sheriff						\$0.00					\$0.00	
1577		*****SHERIFF						\$2,920.00					\$2,920.00	
1578	X293	ADD: GOLD ELITE OPR	1		0		\$0.00	\$1,750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,750.00	
1579								\$2,920.00					\$2,920.00	

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)										Rev: 7/97		
Motorola Proposal for Bid No. 168		Project Cost Itemization Schedule										Project Cost Itemization Schedule		
Item #	Model	Item Description	Qty	Man Hours	Per Unit	Total	Labor Hrs	Rate	Total \$	Material Unit Cost	Total \$	Subcontracts Unit Cost	Total \$	Total Costs
1580	IDH113	ETHERNET CABLE, 50'	1		0	\$0.00			\$16.79	\$16.79	\$0.00		\$16.79	\$16.79
1581	B1822	GOLD SERIES ELITE/CRT DESKTOP	1		0	\$0.00			\$6,945.95	\$6,945.95	\$0.00		\$6,945.95	\$6,945.95
1582	K811AB	ALT: MICROPHONE, DESK	1		0	\$0.00			\$85.41	\$85.41	\$0.00		\$85.41	\$85.41
1583	K570	ADD: HEADSET JACK	1		0	\$0.00			\$160.60	\$160.60	\$0.00		\$160.60	\$160.60
1584	K704AA	ADD: SECOND HEADSET JACK	1		0	\$0.00			\$160.60	\$160.60	\$0.00		\$160.60	\$160.60
1585	K572AF	ADD: FOOTSWITCH	1		0	\$0.00			\$70.08	\$70.08	\$0.00		\$70.08	\$70.08
1586	K238BPSP	ADD: REMOTE OPERATOR	1		0	\$0.00			\$2,465.21	\$2,465.21	\$0.00		\$2,465.21	\$2,465.21
1587	BDN6651	HEADSET, STARSET II W/PTT	1		0	\$0.00			\$261.34	\$261.34	\$0.00		\$261.34	\$261.34
1588	TDN9827	HEADSET, STARSET II W/PTT	1		0	\$0.00			\$261.34	\$261.34	\$0.00		\$261.34	\$261.34
1589	TDN1165	HP PENT CPU 100MZ CD ETH WINNT	1		0	\$0.00			\$3,149.95	\$3,149.95	\$0.00		\$3,149.95	\$3,149.95
1590	TDN9841	TOUCHSCREEN MONITOR 17"	1		0	\$0.00			\$1,565.85	\$1,565.85	\$0.00		\$1,565.85	\$1,565.85
1591	INVJAA01	MOUSEPAD, 5 PACK	1		0	\$0.00			\$36.50	\$36.50	\$0.00		\$36.50	\$36.50
1592		PUC	1		0	\$0.00			\$1,460.00	\$1,460.00	\$0.00		\$1,460.00	\$1,460.00
1593		SITE 5 TOTAL											\$1,750.00	\$1,750.00
1594		Site 6: Water	1		0	\$0.00			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1595	X293	ADD: GOLD ELITE OPR	1		0	\$0.00			\$2,920.00	\$2,920.00	\$0.00		\$2,920.00	\$2,920.00
1596	B1822	GOLD SERIES ELITE/CRT DESKTOP	1		0	\$0.00			\$6,945.95	\$6,945.95	\$0.00		\$6,945.95	\$6,945.95
1597	K570	ADD: HEADSET JACK	1		0	\$0.00			\$160.60	\$160.60	\$0.00		\$160.60	\$160.60
1598	K704AA	ADD: SECOND HEADSET JACK	1		0	\$0.00			\$160.60	\$160.60	\$0.00		\$160.60	\$160.60
1599	K572AF	ADD: FOOTSWITCH	1		0	\$0.00			\$70.08	\$70.08	\$0.00		\$70.08	\$70.08
1600	K238BPSP	ADD: REMOTE OPERATOR	1		0	\$0.00			\$2,465.21	\$2,465.21	\$0.00		\$2,465.21	\$2,465.21
1601	BDN6651	HEADSET, STARSET II W/PTT	1		0	\$0.00			\$261.34	\$261.34	\$0.00		\$261.34	\$261.34
1602	TDN9827	HP PENT CPU 100MZ CD ETH WINNT	1		0	\$0.00			\$3,149.95	\$3,149.95	\$0.00		\$3,149.95	\$3,149.95
1603	TDN1165	TOUCHSCREEN MONITOR 17"	1		0	\$0.00			\$1,565.85	\$1,565.85	\$0.00		\$1,565.85	\$1,565.85
1604	TDN8503	MODEM V.3225, 9600BPS, V.32 W/IMP5	1		0	\$0.00			\$474.50	\$474.50	\$0.00		\$474.50	\$474.50
1605	TDN8351	RACK ADAPTER, 19" RM1M LCD	1		0	\$0.00			\$54.75	\$54.75	\$0.00		\$54.75	\$54.75
1606	CDN6210	SINGLE PORT WAN BRIDGE	1		0	\$0.00			\$1,269.47	\$1,269.47	\$0.00		\$1,269.47	\$1,269.47
1607	CDN6219	10 BASE-CROSS-OVER CABLE 25FT	1		0	\$0.00			\$13.14	\$13.14	\$0.00		\$13.14	\$13.14
1608	CDN6225	CABLE	1		0	\$0.00			\$18.25	\$18.25	\$0.00		\$18.25	\$18.25
1609	TDN9875	DDS/MR64 STANDALONE	1		0	\$0.00			\$507.35	\$507.35	\$0.00		\$507.35	\$507.35
1610	INVJAA01	PUC	1		0	\$0.00			\$1,460.00	\$1,460.00	\$0.00		\$1,460.00	\$1,460.00
1611	B1604 B	CC2 ENCL 2B 4HI FREESTANDING	2		0	\$0.00			\$3,338.29	\$6,676.58	\$0.00		\$6,676.58	\$6,676.58
1612	K750	ADD: LEFT SIDE FILLER PANEL	1		0	\$0.00			\$102.20	\$102.20	\$0.00		\$102.20	\$102.20
1613	K749	ADD: RIGHT SIDE FILLER PANEL	1		0	\$0.00			\$102.20	\$102.20	\$0.00		\$102.20	\$102.20
1614	K752	ADD: BOTH FOOT SUPPORTS	2		0	\$0.00			\$122.64	\$245.28	\$0.00		\$245.28	\$245.28
1615	L1889	CC2 WRITING SURF 2B RND EDGE	2		0	\$0.00			\$349.67	\$699.34	\$0.00		\$699.34	\$699.34
1616	BLN6199	RAIL RACK MOUNTING SHORT	4		0	\$0.00			\$48.18	\$192.72	\$0.00		\$192.72	\$192.72
1617		SITE 6 TOTAL											\$1,924.00	\$1,924.00
1618		DISPATCH FACILITIES TOTAL											\$1,254,223.16	\$1,254,223.16
1619		6. Coverage Enhancement												
1620		Site 1: HDJ												
1621		BIDirectional Amplifier System Network	1		0	\$0.00			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1622		REMOTE TERMINAL UNIT	1		0	\$0.00			\$1,443.94	\$1,443.94	\$0.00		\$1,443.94	\$1,443.94
1623		MOSCAD EXTERNAL MODEM COMMUNICATIO	1		0	\$0.00			\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1624		ALT: NEMA TO RACKMOUNT	1		0	\$0.00			\$113.15	\$113.15	\$0.00		\$113.15	\$113.15
1625		ADD: ASYNC RS232	4		0	\$0.00			\$146.00	\$584.00	\$0.00		\$584.00	\$584.00
1626		REPLACE 8-SLOT MB W/8CPU+NO I/O	1		0	\$0.00			\$146.00	\$146.00	\$0.00		\$146.00	\$146.00
1627														
1628														
1629														

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Mn Per Unit	Total	Labor Hrs	Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Total Costs
1630	V425	ADD: MOSCAD CPU 300	1	0	0				\$972.36	\$972.36		\$0.00	\$0.00
1631	V437	ADD: BAI SV MODULE	1	0	0				\$477.42	\$477.42		\$0.00	\$0.00
1632	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0				\$1,443.94	\$1,443.94		\$0.00	\$0.00
1633	V051	ALT: NEMA TO RACKMOUNT	1	0	0				\$0.00	\$0.00		\$0.00	\$0.00
1634	V369	REPL: 8-SLOT MB W/4CPU+4I/O	1	0	0				\$146.00	\$146.00		\$0.00	\$0.00
1635	V274	DEL: 3 AMP PS AND BATTERY	1	0	0				(\$240.90)	(\$240.90)		\$0.00	\$0.00
1636	V345	ADD: ASYNC RS232	1	0	0				\$113.15	\$113.15		\$0.00	\$0.00
1637	V380	ADD: 60 DI MODULE	1	0	0				\$277.40	\$277.40		\$0.00	\$0.00
1638	V516	ADD: 16DO LATCH MODULE	1	0	0				\$375.95	\$375.95		\$0.00	\$0.00
1639	V437	ADD: BAI SV MODULE	1	0	0				\$477.42	\$477.42		\$0.00	\$0.00
1640	V425	ADD: CPU 300	1	0	0				\$972.36	\$972.36		\$0.00	\$0.00
1641	F6900	SERIES 300 CPU	1	0	0				\$1,045.36	\$1,045.36		\$0.00	\$0.00
1642	V345	ADD: ASYNC RS232	1	0	0				\$113.15	\$113.15		\$0.00	\$0.00
1643	V104	ADD: 2400 DIAL-UP	1	0	0				\$101.06	\$101.06		\$0.00	\$0.00
1644	FKM4400	FLAT OVAL 2.5M CABLE	18	0	0				\$10.95	\$197.10		\$0.00	\$0.00
		HOJ TOTAL											\$192,400.00
1645													
1646		Site 2: San Bruno Jails											
1647													
1648		BiDirectional Amplifier System Network	1	0	0			\$11,276.55		\$11,276.55		\$192,400.00	\$203,676.55
1649													
1650		***SPECIAL AREAS***											
1651	F6900	REMOTE TERMINAL UNIT	1	0	0				\$1,443.94	\$1,443.94		\$0.00	\$0.00
1652	V051	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0				\$0.00	\$0.00		\$0.00	\$0.00
1653	V345	ALT: NEMA TO RACKMOUNT	4	0	0				\$113.15	\$452.60		\$0.00	\$0.00
1654	V418	REPLACE 8-SLOT MB W/8CPU+NO I/O	1	0	0				\$146.00	\$146.00		\$0.00	\$0.00
1655	V425	ADD: MOSCAD CPU 300	1	0	0				\$972.36	\$972.36		\$0.00	\$0.00
1656	V437	ADD: BAI SV MODULE	1	0	0				\$477.42	\$477.42		\$0.00	\$0.00
1657	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0				\$1,443.94	\$1,443.94		\$0.00	\$0.00
1658	V051	ALT: NEMA TO RACKMOUNT	1	0	0				\$0.00	\$0.00		\$0.00	\$0.00
1659	V369	REPL: 8-SLOT MB W/4CPU+4I/O	1	0	0				\$146.00	\$146.00		\$0.00	\$0.00
1660	V274	DEL: 3 AMP PS AND BATTERY	1	0	0				(\$240.90)	(\$240.90)		\$0.00	\$0.00
1661	V345	ADD: ASYNC RS232	1	0	0				\$113.15	\$113.15		\$0.00	\$0.00
1662	V380	ADD: 60 DI MODULE	1	0	0				\$277.40	\$277.40		\$0.00	\$0.00
1663	V516	ADD: 16DO LATCH MODULE	1	0	0				\$375.95	\$375.95		\$0.00	\$0.00
1664	V437	ADD: BAI SV MODULE	1	0	0				\$477.42	\$477.42		\$0.00	\$0.00
1665	V425	ADD: CPU 300	1	0	0				\$972.36	\$972.36		\$0.00	\$0.00
1666	F6900	SERIES 300 CPU	1	0	0				\$1,045.36	\$1,045.36		\$0.00	\$0.00
1667	V345	ADD: ASYNC RS232	1	0	0				\$113.15	\$113.15		\$0.00	\$0.00
1668	V104	ADD: 2400 DIAL-UP	1	0	0				\$300.76	\$300.76		\$0.00	\$0.00
1669	FKM4400	FLAT OVAL 2.5M CABLE	18	0	0				\$10.95	\$197.10		\$0.00	\$0.00
		SITE 2 TOTAL											\$203,676.55
1670													
1671		Site 3: Moscone Center											
1672													
1673		BiDirectional Amplifier System Network	1	0	0			\$10,000.00		\$10,000.00		\$192,400.00	\$202,400.00
1674													
1675		***SPECIAL AREAS***											
1676	F6900	REMOTE TERMINAL UNIT	1	0	0				\$1,443.94	\$1,443.94		\$0.00	\$0.00
1677	V051	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0				\$0.00	\$0.00		\$0.00	\$0.00
1678	V345	ALT: NEMA TO RACKMOUNT	4	0	0				\$113.15	\$452.60		\$0.00	\$0.00
1679	V418	REPLACE 8-SLOT MB W/8CPU+NO I/O	1	0	0				\$146.00	\$146.00		\$0.00	\$0.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours Per Unit	Total	Rate	Total \$	Material Unit Cost	Total \$	Unit Cost	Total \$	Total \$	Total Costs
1680	V425	ADD: MOSCAD CPU 300	1	0	0	\$0.00	\$0.00	\$972.36	\$972.36		\$0.00	\$0.00	\$0.00
1681	V437	ADD: 8AI 5V MODULE	1	0	0	\$0.00	\$0.00	\$477.42	\$477.42		\$0.00	\$0.00	\$0.00
1682	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	0	0	\$0.00	\$0.00	\$1,443.94	\$1,443.94		\$0.00	\$0.00	\$0.00
1683	V051	ALT: NEMA TO RACKMOUNT	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1684	V369	REPL: 8-SLOT MB W/ACPU+4I/O	1	0	0	\$0.00	\$0.00	\$146.00	\$146.00		\$0.00	\$0.00	\$0.00
1685	V274	DEL: 3 AMP PS AND BATTERY	1	0	0	\$0.00	\$0.00	(\$240.90)	(\$240.90)		\$0.00	\$0.00	\$0.00
1686	V345	ADD: ASYNC RS232	1	0	0	\$0.00	\$0.00	\$113.15	\$113.15		\$0.00	\$0.00	\$0.00
1687	V380	ADD: 60 DI. MODULE	1	0	0	\$0.00	\$0.00	\$277.40	\$277.40		\$0.00	\$0.00	\$0.00
1688	V516	ADD: 16DO LATCH MODULE	1	0	0	\$0.00	\$0.00	\$375.95	\$375.95		\$0.00	\$0.00	\$0.00
1689	V437	ADD: 8AI 5V MODULE	1	0	0	\$0.00	\$0.00	\$477.42	\$477.42		\$0.00	\$0.00	\$0.00
1690	V425	ADD: CPU 300	1	0	0	\$0.00	\$0.00	\$972.36	\$972.36		\$0.00	\$0.00	\$0.00
1691	F6933	SERIES 300 CPU	1	0	0	\$0.00	\$0.00	\$1,045.36	\$1,045.36		\$0.00	\$0.00	\$0.00
1692	V345	ADD: ASYNC RS232	1	0	0	\$0.00	\$0.00	\$113.15	\$113.15		\$0.00	\$0.00	\$0.00
1693	V104	ADD: 2400 DIAL-UP	1	0	0	\$0.00	\$0.00	\$300.76	\$300.76		\$0.00	\$0.00	\$0.00
1694	FRN4400	FLAT OVAL 2.5M CABLE	18	0	0	\$0.00	\$0.00	\$10.95	\$197.10		\$0.00	\$0.00	\$0.00
		SITE 3 TOTAL					\$32,699.50		\$0.00		\$0.00	\$32,699.50	
1695		Site 4: Muni Tunnel Netork	1	0	0	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
1696							\$2,861,749.00		\$2,861,749.00		\$0.00	\$2,861,749.00	\$2,861,749.00
1697		BIDirectional Amplifier System Network	1	0	0	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
1699		QUANTAR/QUANTRO MUNI	6	0	0	\$0.00	\$0.00	\$4,946.46	\$29,678.88		\$0.00	\$29,678.88	\$29,678.88
1700	C98ED	QUANTAR/QUANTRO CONFIGURATION	6	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1701	001C	ADD: 600 20W PA	6	0	0	\$0.00	\$0.00	\$2,663.77	\$15,982.62		\$0.00	\$15,982.62	\$15,982.62
1702	X250	ENH: CONVENTIONAL ONLY C/TAR	6	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1703	X597 A	ADD: REPEATER OPERATION	6	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1704	X590	ADD: HARDWARE, RACKMOUNT	6	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1705	X153	ADD: MANUAL SERVICE	6	0	0	\$0.00	\$0.00	\$146.00	\$876.00		\$0.00	\$876.00	\$876.00
1706	X432	ALT: DC ONLY OP. DC TO DC CONVERTER	6	0	0	\$0.00	\$0.00	\$146.00	\$876.00		\$0.00	\$876.00	\$876.00
1707	X113	BIDIRECTIONAL SENSOR	6	0	0	\$0.00	\$0.00	\$159.87	\$959.22		\$0.00	\$959.22	\$959.22
1708	DSDB8882A350	TEST MICROPHONE	3	0	0	\$0.00	\$0.00	\$42.34	\$127.02		\$0.00	\$127.02	\$127.02
1709	HMN1001	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	3	0	0	\$0.00	\$0.00	\$72.27	\$216.81		\$0.00	\$216.81	\$216.81
1710	HSN1000 R	CABLE FOR EXTERNAL 6W SPEAKER	3	0	0	\$0.00	\$0.00	\$36.50	\$109.50		\$0.00	\$109.50	\$109.50
1711	TRN7738	DUAL PHONE LINE SUPPRESSOR	6	0	0	\$0.00	\$0.00	\$64.42	\$386.52		\$0.00	\$386.52	\$386.52
1712	TRN4569	** Racks **	1	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1713	*****	SEVEN FOOT RACK	3	0	0	\$0.00	\$0.00	\$343.10	\$1,029.30		\$0.00	\$1,029.30	\$1,029.30
1714	TRN7342						\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
1715		****SPECIAL AREAS****					\$0.00		\$0.00		\$0.00	\$0.00	\$0.00
1716	F6900	REMOTE TERMINAL UNIT	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1717	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	3	0	0	\$0.00	\$0.00	\$1,443.94	\$4,331.82		\$0.00	\$4,331.82	\$4,331.82
1718	V051	ALT: NEMA TO RACKMOUNT	3	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1719	V345	ADD: ASYNC RS232	12	0	0	\$0.00	\$0.00	\$113.15	\$1,357.80		\$0.00	\$1,357.80	\$1,357.80
1720	V418	REPLACE 8-SLOT MB W/BCPU+NO I/O	3	0	0	\$0.00	\$0.00	\$146.00	\$438.00		\$0.00	\$438.00	\$438.00
1721	V425	ADD: MOSCAD CPU 300	3	0	0	\$0.00	\$0.00	\$972.36	\$2,917.08		\$0.00	\$2,917.08	\$2,917.08
1722	V437	ADD: 8AI 5V MODULE	3	0	0	\$0.00	\$0.00	\$477.42	\$1,432.26		\$0.00	\$1,432.26	\$1,432.26
1723	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	3	0	0	\$0.00	\$0.00	\$1,443.94	\$4,331.82		\$0.00	\$4,331.82	\$4,331.82
1724	V051	ALT: NEMA TO RACKMOUNT	3	0	0	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00
1725	V369	REPL: 8-SLOT MB W/ACPU+4I/O	3	0	0	\$0.00	\$0.00	\$146.00	\$438.00		\$0.00	\$438.00	\$438.00
1726	V274	DEL: 3 AMP PS AND BATTERY	3	0	0	\$0.00	\$0.00	(\$240.90)	(\$722.70)		\$0.00	(\$722.70)	(\$722.70)
1727	V345	ADD: ASYNC RS232	3	0	0	\$0.00	\$0.00	\$113.15	\$339.45		\$0.00	\$339.45	\$339.45
1728	V380	ADD: 60 DI. MODULE	3	0	0	\$0.00	\$0.00	\$277.40	\$832.20		\$0.00	\$832.20	\$832.20
1729	V516	ADD: 16DO LATCH MODULE	3	0	0	\$0.00	\$0.00	\$375.95	\$1,127.85		\$0.00	\$1,127.85	\$1,127.85
1730	V437	ADD: 8AI 5V MODULE	3	0	0	\$0.00	\$0.00	\$477.42	\$1,432.26		\$0.00	\$1,432.26	\$1,432.26

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Citywide 800MHz Radio System Project (CERS)		Motorola Proposal for Bid No. 168		Rev: 7/97		Project Cost Itemization Schedule		Subcontracts		Total	
Item #	Model	Item Description	Qty	Man Hours	Labor	Total	Material	Total	Unit	Total	Costs	Total	Total
				Per Unit	Hrs	\$	Unit	\$	Cost	\$		\$	\$
1731	V425	ADD: CPU 300	3	0		\$0.00	\$972.36	\$2,917.08		\$0.00		\$0.00	\$0.00
1732	F6933	SERIES 300 CPU	3	0		\$0.00	\$1,046.36	\$3,136.08		\$0.00		\$0.00	\$0.00
1733	V345	ADD: ASYNC RS232	3	0		\$0.00	\$113.15	\$339.45		\$0.00		\$0.00	\$0.00
1734	V104	ADD: 2400 DIAL-UP	3	0		\$0.00	\$300.76	\$902.28		\$0.00		\$0.00	\$0.00
1735	FKM400	FLAT OVAL 2.5M CABLE	36	0		\$0.00	\$10.95	\$394.20		\$0.00		\$0.00	\$0.00
		SITE 4 TOTAL											\$2,944,690.37
1736			1	0		\$10,000.00		\$0.00		\$0.00		\$0.00	\$10,000.00
1737		Site 5: San Francisco International Airport - SFIA	1	0		\$0.00		\$0.00		\$192,402.00		\$192,402.00	\$192,402.00
1738			1	0		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
1739		BiDirectional Amplifier System Network	2	0		\$0.00	\$4,946.48	\$9,892.96		\$0.00		\$0.00	\$9,892.96
1740	C98ED	QUANTAR/QUANTRO SFIA	2	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
1741	001C	QUANTAR/QUANTRO CONFIGURATION	2	0		\$0.00	\$4,609.22	\$9,218.44		\$0.00		\$0.00	\$9,218.44
1742	X750	ADD: 100W 800 MHZ OPERATION	2	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
1743	X597 A	ENH: CONVENTIONAL ONLY QTR	2	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
1744	X580	ADD: REPEATER OPERATION	2	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
1745	X153	ADD: HARDWARE, RACKMOUNT	2	0		\$0.00	\$146.00	\$292.00		\$0.00		\$0.00	\$292.00
1746	X432	ADD: MANUAL SERVICE	2	0		\$0.00	\$159.87	\$319.74		\$0.00		\$0.00	\$319.74
1747	X113	ALT: DC ONLY OP. DC TO DC CONVERTER	2	0		\$0.00	\$2.34	\$4.68		\$0.00		\$0.00	\$4.68
1748	DSDB8882A350	BIDIRECTIONAL SENSOR	2	0		\$0.00	\$72.27	\$144.54		\$0.00		\$0.00	\$144.54
1749	HMN1001	TEST MICROPHONE	1	0		\$0.00	\$36.50	\$72.27		\$0.00		\$0.00	\$72.27
1750	HSN1000 R	6W AMPLIFIED EXTERNAL SPKR-PA AUDIO	1	0		\$0.00	\$36.50	\$72.27		\$0.00		\$0.00	\$72.27
1751	TRN7738	CABLE FOR EXTERNAL 6W SPEAKER	1	0		\$0.00	\$64.42	\$128.84		\$0.00		\$0.00	\$128.84
1752	TRN4589	DUAL PHONE LINE SUPPRESSOR	2	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
1753	*****	** Antenna System **											
1754	L1705	1/2" LDF HELIAX, POLY JKT, PER FOOT	40	0		\$0.00	\$2.12	\$84.80		\$0.00		\$0.00	\$84.80
1755	TDN8814	1/2" CONNECTOR, N PLUG LDF PLTD	22	0		\$0.00	\$32.65	\$722.70		\$0.00		\$0.00	\$722.70
1756	L1709	7/8" LDF HELIAX, POLY JKT, PER FOOT	200	0		\$0.00	\$5.18	\$1,036.00		\$0.00		\$0.00	\$1,036.00
1757	TDN8817	7/8" CONNECTOR, N PLUG (PLATED)	6	0		\$0.00	\$80.30	\$481.80		\$0.00		\$0.00	\$481.80
1758	TDN8818	7/8" CONNECTOR, N JACK (PLATED)	6	0		\$0.00	\$80.30	\$481.80		\$0.00		\$0.00	\$481.80
1759	TDN6674	7/8" CABLE GROUND CLAMP KIT	2	0		\$0.00	\$24.46	\$48.92		\$0.00		\$0.00	\$48.92
1760	TDN964	7/8" SNAP-IN HANGER KIT, 10PK	2	0		\$0.00	\$36.50	\$73.00		\$0.00		\$0.00	\$73.00
1761	TDN6672	7/8" CABLE HOISTING GRIP	2	0		\$0.00	\$37.78	\$75.56		\$0.00		\$0.00	\$75.56
1762	L1702	1/2" SUPERFLEX, POLY JKT, PER FOOT	15	0		\$0.00	\$3.07	\$46.05		\$0.00		\$0.00	\$46.05
1763	TDN8809	1/2" CONNECTOR, N PLUG S-FLEX PLTD	6	0		\$0.00	\$37.78	\$226.68		\$0.00		\$0.00	\$226.68
1764	TDN8289	CABLE WRAP WEATHERPROOFING	1	0		\$0.00	\$27.38	\$27.38		\$0.00		\$0.00	\$27.38
1765	L1700	1/4" SUPERFLEX, POLY JKT, PER FOOT	20	0		\$0.00	\$1.39	\$27.80		\$0.00		\$0.00	\$27.80
1766	TDN9715	1/4"CONN, N PLUG S-FLEX (PLTD)	2	0		\$0.00	\$12.23	\$24.46		\$0.00		\$0.00	\$24.46
1767	TDN9715	1/4"CONN, BNC PLUG S-FLEX (PLTD)	2	0		\$0.00	\$10.59	\$21.18		\$0.00		\$0.00	\$21.18
1768	DSTJT6005T	XMTN COMBINER	0	0		\$0.00	\$6,323.26	\$0.00		\$0.00		\$0.00	\$0.00
1769	DSTJT6002T	XMTN CAVITY CMBNR 2 FREQ	1	0		\$0.00	\$3,064.54	\$3,064.54		\$0.00		\$0.00	\$3,064.54
1770	DSRMC80012	RMC 806-824 MHZ, 12CH, CWA	0	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
1771	DSRMC8004N	RMC 806-824MHZ, 4CH, CWA	1	0		\$0.00	\$1,549.06	\$1,549.06		\$0.00		\$0.00	\$1,549.06
1772	DSRMC8004N	RMC 806-824MHZ, 4CH, CWA	1	0		\$0.00	\$1,549.06	\$1,549.06		\$0.00		\$0.00	\$1,549.06
1773	RRX4039A	LIGHTNING SUPPRESSOR	2	0		\$0.00	\$47.45	\$94.90		\$0.00		\$0.00	\$94.90
1774	DSDB8882A	BB DUAL OMNI	1	0		\$0.00	\$1,729.37	\$1,729.37		\$0.00		\$0.00	\$1,729.37
1775	DSDB8882A	BB OMNI	0	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
1776	DSDB8882A1000	BIDIRECTIONAL SENSOR	1	0		\$0.00	\$159.87	\$159.87		\$0.00		\$0.00	\$159.87
1777	*****	** Racks **											
1778	TRN7342	SEVEN FOOT RACK	1	0		\$0.00	\$343.10	\$343.10		\$0.00		\$0.00	\$343.10
1779	*****	*****											
1780	*****SPECIAL AREAS***	REMOTE TERMINAL UNIT	1	0		\$0.00	\$1,443.94	\$1,443.94		\$0.00		\$0.00	\$1,443.94
1781	F6900	MOSSCAD EXTERNAL MODEM COMMUNICATIO	1	0		\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco		Rev. 7/97		Project Cost Itemization Schedule		Subcontract Unit		Total	
Item #	Model	Item Description	Qty	Per Unit	Total	Material Unit Cost	Subcontract Unit Cost	Total \$	Total Costs
1782	V051	ALT: NEMA TO RACKMOUNT	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1783	V345	ADD: ASYNC RS232	4	\$113.15	\$452.60	\$113.15		\$452.60	\$0.00
1784	V418	REPLACE 8-SLOT MB W/8CPU+NO I/O	1	\$146.00	\$146.00	\$146.00		\$146.00	\$0.00
1785	V425	ADD: MOSCAD CPU 300	1	\$972.36	\$972.36	\$972.36		\$972.36	\$0.00
1786	V437	ADD: 8AI 5V MODULE	1	\$477.42	\$477.42	\$477.42		\$477.42	\$0.00
1787	F6900	MOSCAD EXTERNAL MODEM COMMUNICATIO	1	\$1,443.94	\$1,443.94	\$1,443.94		\$1,443.94	\$0.00
1788	V051	ALT: NEMA TO RACKMOUNT	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1789	V369	REPL: 8-SLOT MB W/4CPU+4I/O	1	\$146.00	\$146.00	\$146.00		\$146.00	\$0.00
1790	V274	DEL: 3 AMP PS AND BATTERY	1	(\$240.90)	(\$240.90)	(\$240.90)		(\$240.90)	\$0.00
1791	V345	ADD: ASYNC RS232	1	\$113.15	\$113.15	\$113.15		\$113.15	\$0.00
1792	V380	ADD: 60 DI. MODULE	1	\$277.40	\$277.40	\$277.40		\$277.40	\$0.00
1793	V516	ADD: 16DO LATCH MODULE	1	\$375.95	\$375.95	\$375.95		\$375.95	\$0.00
1794	V437	ADD: 8AI 5V MODULE	1	\$477.42	\$477.42	\$477.42		\$477.42	\$0.00
1795	V425	ADD: CPU 300	1	\$972.36	\$972.36	\$972.36		\$972.36	\$0.00
1796	F6933	SERIES 300 CPU	1	\$1,045.36	\$1,045.36	\$1,045.36		\$1,045.36	\$0.00
1797	V345	ADD: ASYNC RS232	1	\$113.15	\$113.15	\$113.15		\$113.15	\$0.00
1798	V104	ADD: 2400 DIAL-UP	1	\$300.76	\$300.76	\$300.76		\$300.76	\$0.00
1799	FKN4400	FLAT OVAL 2.5M CABLE	18	\$10.95	\$197.10	\$197.10		\$197.10	\$0.00
		SITE 5 TOTAL							\$233,015.34
		COVERAGE ENH. TOTAL							\$3,776,186.26
1800									
1801		7. Warranty	1	\$128,311.00	\$128,311.00			\$0.00	\$128,311.00
1802									
1803									
1804		8. Maintenance			\$0.00			\$0.00	\$0.00
1805									
1806									
1807		9. Documentation			\$44,390.00			\$0.00	\$44,390.00
1808									
1809									
1810		10. Test Equipment	1	\$0.00	\$0.00	\$293,000.00		\$293,000.00	\$293,000.00
1811									
1812	R2674/4497/4492	Communication System Analyzer/Service Mon/Trunkin	4	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1813	DQ1CCFireBard6000	FireBard T1 Digital Link Analyzer	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1814	DQ1TCT1Bard209	FireBard Bit Error Analyzer	2	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1815	RTHP346600	HP Digital Sampling Oscilloscope	3	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1816	TDN9430	MTS2000 Battery Maintenance System	20	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1817	DQLA7475MC	Dell Latitude Laptop PC	5	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1818	RTHP3348A	Microwave Frequency Counter/Power Meter - 26.5GHz	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1819	RTHP71209A	Microwave Spectrum Analyzer - 26.5GHz	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1820	RTHP12501462	Patch Cards, SMA-M to SMA-F to 26.5GHz	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1821	T1014X	DES-XL Encryption Keyloader	5	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1822	NLN8858	6-Unit Battery Charger/Analyzer	6	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1823	R2014D/09000	Encryption Test Set	2	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1824	RTHP4935A	HP TIMS 4935	4	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1825	DOCW4374	Celwave Wideband Voltmeter	4	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1826	RTHP435B8485A	Power Meter - 26.5GHz, -65 to +44 dBm Power Range	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
1827	DQ87	Fluke 87 True RMS Multimeter	3	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
		GRAND TOTAL							\$35,138,899.50
		SYSTEM DISCOUNT (4.34% OF \$24,203,904)							\$(1,055,625.00)

Exhibit D: Project Cost Itemization Schedule Detail Cost Breakdown

City and County of San Francisco Citywide 800MHz Radio System Project (CERS) Motorola Proposal for Bid No. 168												
Item #	Model	Item Description	Qty	Men Hours		Labor		Project Cost Itemization Schedule		Material Unit Cost	Subcontracts Unit Cost	Total Costs
				Per Unit	Total	Hrs	Rate	Total	Total			
				Man Hours	Per Unit	Total	Hrs	Rate	Total	Unit	Total	Total
				Per Unit	Total	Hrs	Rate	Total	Unit	Total	Total	Total
FREIGHT												\$
NET												\$355,925.00
ADDITIONS:												
TAX												\$1,933,166.00
CLAY JONES												\$175,000.00
SYSTEM TOTAL												\$366,547,365.50