



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Radio Maintenance Specifications

MEETING DATE: November 3, 1993

PREPARED BY: Assistant City Manager

RECOMMENDED ACTION: That the City Council approve the attached specifications for maintenance and repair services for all City-owned radio communications equipment and authorize the Purchasing Agent to request proposals for such work on Tuesday, November 30, 1993.

BACKGROUND: Each City department is now contracting individually for maintenance and repair services for radio communications equipment. During discussions at the Town Hall meetings regarding purchasing of radio equipment for Dial-A-Ride, Council directed staff to prepare bid specifications for radio maintenance.

In order to avoid re-inventing the wheel, we requested a copy of specifications used by San Joaquin County for radio maintenance. This was modified to pertain to the City of Lodi. A draft of that document was sent to Department Heads, to McGee Communications, Motorola Communications and Frank Alegre for comment. The comments of those firms and individuals were then incorporated into the document before you.

One thing unique about these specifications is a pre-bid conference at which time potential bidders may visit the site, ask questions relative to the specifications, and clarify any ambiguities.

FUNDING: General Fund.

Respectfully submitted,

Jerry L. Glenn
Assistant City Manager

JLG/vc

APPROVED

THOMAS A. PETERSON
City Manager



recycled paper

RADIO MAINTENANCE SERVICE
AND REPAIR

SECTION 1
NOTICE INVITING BIDS

CITY OF LODI, CALIFORNIA

Sealed proposals will be received by the Purchasing Officer, Lodi City Hall, 221 W. Pine Street, Lodi, CA 95240 (P.O. Box 3006, Lodi, California 95241-1910), until 11:00 A.M. on Tuesday, November 30, 1993. At that time, the proposals will be publicly opened and read in the Public Works Conference Room, First Floor, Lodi City Hall, for the following described work.

The work consists of on-site maintenance and repair service, provided under terms of maintenance service agreement, for all City of Lodi radio communications equipment located in various City facilities, including mobile and portable units.

Each bid shall be in accordance with this notice and specifications on file with and available from the Purchasing Officer, City of Lodi, telephone (209) 333-6777. No bid will be considered unless it is submitted on a proposal form furnished by the City of Lodi.

A pre-bid conference will be held on Monday, November 15, 1993, at 2:00 P.M. in the Administration Conference Room, Second Floor, City Hall, 221 West Pine Street, Lodi, CA. All persons or representatives of companies intending to submit a proposal in response to this invitation to bid should attend.

The City of Lodi hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex or national origin in consideration for an award.

The City of Lodi reserves the right to reject any or all bids and to waive any informality in the completion of such forms, and to award to the lowest responsible bidder.

Reference is hereby made to said specifications for further details, which specifications and this notice shall be considered part of any contract made pursuant thereto.

Joel E. Harris
Purchasing Officer
City of Lodi

GENERAL REQUIREMENTS

- A. It is the responsibility of each person or company submitting a bid to be fully informed as to the requirements and specifications contained in and made a part of this invitation to bid.
- B. A pre-bid conference will be held on Monday, November 15, 1993, at 2:00 o'clock P.M., in the Administration Conference Room, Second Floor, City Hall, 221 West Pine Street, Lodi, CA. All persons or representatives of companies planning to submit a proposal in response to this invitation to bid should be in attendance.

BID OPENING

- A. The Purchasing Officer will receive sealed bids in his office, City Hall, 221 West Pine Street, Lodi, California 95240 (P.O. Box 3006, Lodi, California 95241-1910) until

11:00 a.m., Tuesday, November 30, 1993.

At that time, in the Public Works Conference Room, First Floor, City Hall, 221 West Pine Street, Lodi, California, bids will be publicly opened and read. Bidders or their authorized representatives are invited to be present.

PROPOSAL FORM

- A. Prospective bidders are furnished with one proposal form included with the specifications.
- B. The proposal must be signed with the full name and address of the bidder, by an authorized representative of the company.
- C. The proposal shall be submitted as directed in the "Notice Inviting Bids" under sealed cover plainly marked

Proposal - Radio Maintenance
Bid Opening November 30, 1993

Proposals which are not properly marked may be disregarded.

EVALUATION OF BIDS

Bids submitted by qualified bidders will be evaluated on the basis of proposed total price for performance of the required radio maintenance service and repair. To qualify for evaluation, bidders must meet criteria indicated in "Specifications for Radio Maintenance Service and Repair", including, but not limited to Paragraphs "A" and "B" of Page 1 of the "Specifications" enclosed herewith and made part of this bid.

ACCEPTANCE OR REJECTION OF PROPOSALS

- A. The purchaser reserves the right to accept other than the lowest bid or to reject any or all bids.
- B. Bids may be rejected if they show any alteration of proposal form, additions not called for, or alternative bids not properly documented. Erasures or irregularities of any kind may also be cause for rejection.

AWARD OF BID

- A. The award of the bid, if it be awarded, will be to the lowest responsible bidder whose bid proposal complies with all the requirements herein described.
- B. Where alternative bids are received, the City Council reserves the right to select the bid most advantageous to the City. The award, if made, will be made within sixty days after opening of the bids.
- C. In case of tie bids, the tie will be resolved by a coin toss, conducted by the City Purchasing Officer. Tie bidders will be notified and may be present.

PRICES

All quoted prices shall be current and shall be held firm for at least sixty days after date of bid opening. If awarded the bid, bidder agrees to hold quoted prices firm for the term of the agreement.

INVOICES

Invoicing procedure shall be determined as specified in Section 4, Specifications, Page 4-9, Paragraph II, Invoicing Procedure, attached hereto.

PAYMENTS

Full payment by the purchaser shall not release service provider of the responsibility to fully carry out all obligations of this bid, nor be construed by provider as acceptance of the service hereunder by the City of Lodi.

PURCHASES

This transaction will be covered by City of Lodi purchase order, and all terms included in Notice to Bidders, Information to Bidders, Proposal and Specifications shall be binding.

WARRANTIES

Bidder guarantees that all repair parts and replacement equipment used in performance of work described herein shall be free from defects in material and workmanship, shall have been manufactured in a good workmanlike manner using high quality materials in conformity with the best standard manufacturing practices, and shall fully conform to original equipment manufacturer's specifications.

RADIO MAINTENANCE SERVICE
AND REPAIR

SECTION 3
BID PROPOSAL

CITY OF LODI, CALIFORNIA

From: (Name of Bidder) _____

To the Lodi City Council
Lodi City Hall
221 West Pine Street (95240)
P.O. Box 3006
Lodi, CA 95241-1910

The undersigned, as bidder, declares to have carefully examined the Notice Inviting Bids, Information to Bidders, Specifications for Radio Maintenance Service and Repair, and Schedule of Equipment, and by thorough examination thereof and by virtue of attendance at pre-bid conference held at 2:00 p.m. on Monday, November 15, 1993, fully understands the requirements of this bid and of the work required for the satisfactory performance of the City's Radio Maintenance Service and Repair program, and submits this schedule of prices for the items of the bid.

If awarded the bid, the undersigned agrees to furnish all labor, material and equipment necessary to satisfactorily perform said work for this project, excepting those items supplied by the City of Lodi, in strict accordance with the Specifications, and will receive in payments therefor the following monthly unit and total prices, to wit:

P R O P O S A L

BID ITEM	QUANTITY	EQUIPMENT DESCRIPTION	MONTHLY SERVICE PER UNIT	AMOUNT EXTENSION
1	1	MICOR BASE STATION	\$ _____	\$ _____
2	1	C54RCB REPEATER	\$ _____	\$ _____
3	1	C55RCB6105T REPEATER	\$ _____	\$ _____
4	2	CENTRACOM CONSOLE	\$ _____	\$ _____
5	1	COMPARATOR	\$ _____	\$ _____
6	1	D35MQA5GB4	\$ _____	\$ _____
7	8	D44KXA MOBILE	\$ _____	\$ _____
8	2	DESK SET (PUBLIC WORKS)	\$ _____	\$ _____
9	8	DESK SET L1236	\$ _____	\$ _____
10	1	DESK SET LTC 1 SERIES	\$ _____	\$ _____
11	1	DESKTRAC CONTROL SYSTEM	\$ _____	\$ _____
12	2	E08ENC ENCODER	\$ _____	\$ _____
13	2	FARADAY INTERCOM	\$ _____	\$ _____
14	30	FED/WTS/UNITROL	\$ _____	\$ _____
15	6	H25JBF51B2AN	\$ _____	\$ _____
16	12	H44SAJ SABER PORTABLE	\$ _____	\$ _____
17	20	H44SSU PORTABLE	\$ _____	\$ _____
18	5	HT 440 PORTABLE	\$ _____	\$ _____
19	2	HT 50 PORTABLE	\$ _____	\$ _____
20	11	HT 600 PORTABLE	\$ _____	\$ _____
21	8	HT 10 PORTABLE	\$ _____	\$ _____
22	3	HT 1000 PORTABLE	\$ _____	\$ _____
23	3	MAXAR MOBILE	\$ _____	\$ _____
24	1	MAXAR 80 MOBILE	\$ _____	\$ _____
25	2	MAXTRAC 300 BASE	\$ _____	\$ _____
26	25	MAXTRAC 300 MOBILE	\$ _____	\$ _____
27	13	MAXTRAC 800 MOBILE	\$ _____	\$ _____
28	3	MBM34SSA MOBILE	\$ _____	\$ _____
29	61	MINITOR PAGER	\$ _____	\$ _____
30	2	MITREK MOBILE	\$ _____	\$ _____

SUBTOTAL, PAGE 3-2 \$ _____
(PLEASE CARRY THIS SUBTOTAL TO TOP OF PAGE 3-3)

RADIO MAINTENANCE SERVICE
AND REPAIR

BID PROPOSAL
PAGE 3

		SUBTOTAL FROM PAGE 3-2	\$ _____	\$ _____
31	4	MOSTAR CONTROL	\$ _____	\$ _____
32	40	MOSTAR MOBILE	\$ _____	\$ _____
33	16	MT1000 PORTABLE	\$ _____	\$ _____
34	1	MTX PORTABLE	\$ _____	\$ _____
35	3	MVA CONVERTACOM	\$ _____	\$ _____
36	1	MX300 CONSOLE	\$ _____	\$ _____
37	1	N1352 CONVERTACOM	\$ _____	\$ _____
38	2	RADIUS M100 MOBILE	\$ _____	\$ _____
39	1	MOTOROLA REPEATER (ELECTRIC UTIL)	\$ _____	\$ _____
40	1	SABER 1 PORTABLE	\$ _____	\$ _____
41	11	SPECTRA MOBILE	\$ _____	\$ _____
42	1	GE STANDBY BASE RA10401	\$ _____	\$ _____
43	14	STX PORTABLE	\$ _____	\$ _____
44	2	SYNTOR X CONTROL	\$ _____	\$ _____
45	6	SYNTOR X MOBILE	\$ _____	\$ _____
46	28	T44SRA MOBILE	\$ _____	\$ _____
47	2	T44SRA WITH SIREN	\$ _____	\$ _____
48	2	V90123A CCTV CAMERA	\$ _____	\$ _____
49	1	VOICE REPORTER	\$ _____	\$ _____
50	3	VOTING RECEIVER MODEL C03RTB3108B	\$ _____	\$ _____
51	1	XM288HB MONITOR	\$ _____	\$ _____
		TOTAL MONTHLY CHARGES	\$ _____	\$ _____

APPROXIMATE DOLLAR VALUE OF MOTOROLA REPAIR PARTS ON HAND
AS OF DECEMBER 31, 1993 (AS REQUESTED BY SECTION 4,
"SPECIFICATIONS", PAGE 4-10, PARAGRAPH C-2) . . . \$ _____

The undersigned has checked carefully all the above figures and understands that the City and its officers and employees will not be responsible for any errors or omissions on the part of the undersigned in completing this bid.

In any case where discrepancy in extensions may occur, the Bidder agrees that the unit price shall be taken as the correct figure.

The undersigned, as bidder, hereby declares that the only persons or firms interested in the proposal as principal or principals is or are named herein and that no other persons or firms than herein mentioned have any interest in this proposal, that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith, without collusion or fraud.

This bid may be withdrawn by the written request of an authorized representative of the bidding company at any time prior to the scheduled time for the opening of bids or prior to any authorized postponement thereof.

The undersigned hereby designates as the office to which such notice of acceptance may be mailed or delivered:

Name of Company _____
Address _____
City, State, Zip _____
Authorized Signature _____
Name _____
Title _____
Telephone No. _____
FAX Number _____
Dated _____

I. SPECIFICATIONS FOR RADIO MAINTENANCE SERVICE AND REPAIR

The maintenance service will include on-site maintenance for all City of Lodi radio communications equipment. The on-site maintenance will be provided at each radio communication site and all City facilities.

- A. Contractor must show proof of acceptance by governmental entities in performing radio maintenance by:
 - 1. Having been actively engaged in the installation, maintenance and repair of mobile radio equipment in the past five years;
 - 2. Currently servicing and maintaining at least 25 base and 300 mobile radio and/or portable radios.

- B. Contractor shall have enough technicians in permanent employment to insure that sufficient technicians are available to fulfill the requirements of these specifications and to provide additional manpower, as required, to meet emergency maintenance requirements and equipment installations.

- C. Contractor shall furnish all services, parts, material and labor to repair equipment which has become defective through normal wear and usage. The equipment maintained will include that supplied by manufacturers such as Motorola and General Electric. A list of equipment presently on hand is shown in Exhibit A.

Contractor will provide an all-inclusive maintenance service for all radio equipment for all City departments. Duplexer, combiners, isolators, and circulators are included in base station maintenance rates at no additional charge. Battery and antenna replacement is included. Parts and materials used shall be in accordance with equipment manufacturer's recommendations and approved by the City.

D. Contractor shall have the right to subcontract in whole or in part the work called for under this bid subject to the following conditions:

1. Contractor shall not be relieved of any liability and shall be fully responsible for the performance of any and all subcontractors.
2. Contractor shall notify the City of all subcontractors and they may not be changed without prior authorization of the City.

E. Removal and reinstallation of existing equipment will be included in this contract. New equipment purchased will be installed at an additional charge to the City. Installation of new systems will be at additional charge to the City and will be negotiated or bid with the new system purchase.

F. Services shall be in accordance with manufacturer's standard commercial practices, and will be performed at a location agreeable to the City of Lodi.

- G. Maintenance does not include the repair or replacement of equipment which has otherwise become defective, including, but not limited to major damage caused by accidents, physical abuse or misuse of the equipment, civil insurrection, fire, floods, epidemic, quarantine restrictions, strikes, embargoes, unusually severe weather conditions and acts of God. Minor breakage or damage is included in this contract.

In any case, the damage must be beyond the control and without fault or negligence of the Contractor.

- H. All equipment shall be maintained at no less than equal to the maintenance specifications recommended by the manufacturer for the items on the equipment schedule. Technical information on hand in the City pertaining to the items on the equipment schedule shall be made available to the Contractor. This information shall remain the property of the City and shall be returned at the termination of the contract.
- I. Technical information, including programming software, required in addition to that supplied by the City shall be obtained by the Contractor. Such additional information obtained shall be turned over to the City at the termination of the contract. The City will purchase the manuals obtained by the Contractor when the contract is terminated. The City's purchase price for the manuals shall be one-half the price paid for them by the Contractor. If the Contractor cannot furnish proof of the purchase price, the price of each manual shall be deemed to be five dollars.

J. The Contractor shall furnish the City a maintenance schedule for each item on the equipment schedule comprising the following:

Proposed preventative maintenance, equipment down-times, number of personnel involved in providing service, and estimated man-hours required. The schedule shall be submitted within 90 days of contract execution.

K. The City of Lodi reserves the right to add, delete, or change equipment on the equipment schedule as required and directed by the City's designated representative(s). Additions or deletions may be single items or include complete facilities. For additions or changes, the monthly cost of maintenance shall be determined on the same basis as the prices currently in effect for existing items. Such additions, deletions or changes, shall become effective immediately for service but charges shall coincide with the beginning of the next billing period.

Further, at the beginning of each period beginning with Period Two, equipment deletions from the preceding year shall be removed from the equipment schedules. If the City removes a major system, that system will be removed at the beginning of the first month following the removal.

L. All maintenance performed according to the approved schedule shall exclude the cost of expendable supplies such as paper, cards, ribbons, etc., which shall be furnished by the City. The Contractor shall maintain a stock of service parts and components in an adequate amount to insure prompt maintenance and repair. The cost of the inventory of spare parts shall be the Contractor's responsibility.

- M. All parts and sub-assemblies proposed to be replaced by the Contractor shall be replaced as recommended by the manufacturer of the equipment; however, substitutions may be proposed by the Contractor and shall be subject to approval by the City's designated representative(s). Items proposed for substitution shall be reviewed by the City's representative(s) for compliance with manufacturer's specifications and field performance standards.
- N. It is expected that all equipment will be available for maintenance Monday through Friday, 8:00 a.m. to 5:00 p.m., excluding City holidays. Equipment removed from service for routine maintenance and found to require unusual down-time or extensive repair shall be reported immediately to the department's designated representative(s).
- O. The Contractor shall report equipment showing excessive periods of down-time, excessive preventative maintenance and high malfunction ratios. The City's representative shall evaluate the information submitted and determine whether or not the equipment shall be replaced at City's expense or continued to be maintained at the Contractor's expense.
- P. Contractor shall, at its sole cost and expense, furnish all facilities and equipment which may be required for furnishing services pursuant to this bid. Contractor's work within City facilities shall be confined to the area occupied by the operating equipment during its normal use, except as authorized by the City's designated representative(s).

Q. EMERGENCY SERVICE

In addition to regularly scheduled preventative maintenance or other routine maintenance necessary to comply with provisions of this contract, the Contractor shall provide emergency service three hundred sixty-five (365) days per year, twenty-four (24) hours per day as follows:

- 1) One service technician shall be made available for emergency service at any time during the contract period and shall respond as directed by the department's designated representative(s).
- 2) Should an emergency occur during normal working hours, the Contractor's technicians shall be directed by the City's designated representative under priority or requirements as determined by him/her, to service or repair such equipment required for emergency situations and/or normal operations.
- 3) An alternate technician shall be named in case the "on-call" technician is not available.
- 4) The means of contracting the emergency service technician shall be designated by the Contractor (e.g., telephone, radio, etc.).

Base stations, repeaters, Communications Center equipment, and Police and Fire vehicles require 24 hour emergency service.

- R.** The maintenance and repair service is intended to be a comprehensive service that includes all parts and labor and will eliminate extra charges for minor breakage and damage. However, major repairs to equipment necessitated by operator misuse, intentional damage by other than successful bidder's personnel or damage caused by

actions beyond the control of the Contractor or City, shall be repaired when authorized by the City's designated representative(s). Work performed shall be in accordance with the preceding section concerning reporting work performed. The cost of the parts and labor shall be extra and shall be according to the rate schedule submitted by the successful bidder.

- S. Such equipment repair shall be invoiced separately from the equipment service and repairs conducted as regularly scheduled maintenance.
- T. Modification of equipment shall not be made by the Contractor unless specifically approved by the City's designated representative(s).
- U. It shall be the responsibility of the Contractor to comply with all agency requirements for licensing and permits required for the legal operation of the City's systems. Prior to the execution of any contract, the successful bidder shall possess valid licenses and permits. Any applications required to maintain valid licenses and permits now or in the future shall be the responsibility of the Contractor.
- V. The Contractor shall assign a contract representative to coordinate the performance of the contract with the City's representative(s). The City's designated representative(s) shall be responsible for scheduling, installations, modifications, equipment removals and requests for service concerning all items of the City system. Information required by the Contractor's contract representative concerning service or scheduling shall be directed only to the City's designated representative(s).

- W. Any requests for service received by the Contractor's contract representative from other than the City's designated representative shall immediately be referred to the City's designated representative who shall approve or obtain approval for the request prior to authorizing the Contractor to perform the work requested.
- X. Each item of equipment listed on the equipment schedule which is installed, removed, repaired, relocated or serviced in any way shall be recorded on a service order. Each service order shall provide the following:
- 1) Vehicle number, equipment location, or ID number
 - 2) Type of equipment
 - 3) Model number
 - 4) Serial number
 - 5) Date of service
 - 6) Complete description of work performed, including time required, parts used and cost.
- Y. The original service order form providing full detail of work performed that is to be retained by the City in an FCC file will not be forwarded to the City, but will be retained by the Contractor at its service center. The original service order, or copy, will be made available for City review on request.
- Z. Any work performed as a requirement of any City activity shall be so noted in the service report.

AA. Training of the Contractor's personnel shall be the Contractor's responsibility and shall be additionally provided as required by the "systems" demands. The City shall provide information to the Contractor about planned modifications, improvements, or additions to the "systems" which would require additional Contractor training effort.

II. INVOICING PROCEDURE

The invoicing procedure to be used by the Contractor shall be submitted to the City's Finance Director for review and approval at least 10 days from the award of the contract. Invoices will be submitted in duplicate.

III. RESPONSE / REPAIR TIME

Upon receipt of notice of outage or malfunction, the Contractor shall initiate repairs or adjustments as required to place the equipment in normal working condition. Response time is defined as the allotted time from receipt of trouble call to arrival at equipment site by authorized service personnel. The following response time will apply on occasion of interruption or interference preventing the use of or transmission through the equipment maintained.

A. Twenty-four (24) hour coverage, one-hour response, will be provided on base stations, repeater, dispatch consoles, key command vehicles, and police and fire vehicles, 365 days per year.

- B. The remaining equipment will be covered on a normal five day (Monday through Friday), 40 hour work week. Response will be within four hours.**
- C. Contractor must have continued access to exact replacement parts for the communications equipment to be maintained.**
- 1) The Contractor shall have in stock the majority of necessary parts at all times to prevent unnecessary delay in the repair of equipment due to lack of parts.**
 - 2) An approximate dollar value of Motorola repair parts to be on hand at time of award must be submitted as part of the bid.**
 - 3) Down-time of more than five (5) days for parts is unacceptable and may be cause for cancellation of contract.**

IV. MAINTENANCE STANDARDS

- A. All equipment shall be maintained to manufacturer's specifications.**

- B. Exact manufacturer's replacement parts shall be used in the repair of radio equipment to the maximum extent practical. When other than manufacturer's parts are used, they shall be of equal quality and technical ratings.**

- C. Preventative maintenance shall be performed annually on non-fixed equipment (mobiles and portables), and semi-annually on fixed equipment, and shall include as a minimum the following:**
 - 1) Physical inspection of equipment, housing, antennas, control heads, microphones, and cables. Adjustments or corrections shall be made as required.**
 - 2) Any oil, water, dust and foreign substances shall be removed from the equipment.**
 - 3) Measurement of transmit power output and adjustment to rated output as necessary.**
 - 4) Measurement of the reflected power of the transmitter antenna system and any required correction or recommendation for necessary work.**
 - 5) Measurement and any necessary adjustment of frequency and modulation, as often as required by the FCC.**
 - 6) Measurement and any necessary adjustment of receiver sensitivity.**
 - 7) Measurement and any necessary adjustment of CTCSS system.**
 - 8) Any other corrective action necessary to bring equipment to manufacturer's specifications.**

- D. Fixed station antennas and transmission lines shall be maintained as necessary, upon the approval of the City's designated representative. The cost for replacement parts and material shall be paid by the Contractor.
- E. Power output of all transmitters shall be maintained within 10% of the Manufacturer's Rated Output Power unless otherwise directed by the City of Lodi or restricted by the Federal Communications Commission.

V. INSTALLATION STANDARDS

- A. Housings shall be securely mounted in such a manner as to prevent the equipment from coming loose due to vibration.
- B. All cables shall be neatly arranged and taped or tied, where necessary, and positioned in a manner to protect them from damage.
- C. The antenna system shall be properly matched and tuned to provide optimum power output from the antenna.
- D. The finished installation shall be checked physically and technically and all corrective work shall be done at the Contractor's sole expense.
- E. The City of Lodi shall give Contractor or its subcontractors at least two days' notice when requesting installation work unless emergency conditions, e.g., a vehicle accident, exist.

- F. Inasmuch as system integrity is vital in a complex communication system, the City reserves the right to assess the qualifications of persons called upon to perform installation work on equipment included in this contract.

VI. PROGRAMMING

- A. Reprogramming of equipment shall be part of the services provided such as adding a new frequency to all units, or modifying quick-call capabilities.
- B. The programming costs for new communications equipment is not included in this contract. These charges will be included as time and material.

VII. SYSTEM SUPPORT

Contractor will have under its employ and will provide the following system support personnel and services on a no-charge basis:

- A. Field Technical Representative: FTR responsibility shall include providing technical assistance to local technicians assigned to the service of the equipment under this contract for system support.
- B. Engineering Services: In cases of system coverage, multi-system frequency compatibility, system expansion, or new system requirements, systems engineer assistance shall be provided.

- C. In case of interference and where a spectropurity analysis is required, Contractor will have available test equipment necessary to make this test and will make recommendations for resolution.
- D. As required, Contractor will assist the City of Lodi in securing new FCC licenses.
- E. Contractor agrees to provide an "SOS" parts requirement procedure which provides an expedient response to repair action request on high priority and/or critical communication equipment covered by this proposal.
- F. Contractor shall work with telephone company personnel to identify location of any malfunctions of leased lines. Malfunctions in the radio system shall be repaired by the Radio Maintenance Contractor.
- G. Contractor shall work with other equipment maintenance contractors who are under contract with the City for maintenance of equipment which is interconnected, interfaced, or associated with the City's radio systems. Some examples of such contractors would be computer maintenance, recorder maintenance, alarm maintenance, etc.

SCHEDULE OF EQUIPMENT

October 26, 1993

EQUIPMENT DESCRIPTION	DEPARTMENT					
	<u>ELECTRIC</u>	<u>PUB.WRKS.</u>	<u>POLICE</u>	<u>FIRE</u>	<u>PARKS/HUTCH.ST.</u>	<u>DIAL-A-RIDE</u>
MICOR BASE STATION				1		
C54RCB REPEATER			1			
C55RCB6105T REPEATER		1				
CENTRACOM CONSOLE			2			
COMPARATOR				1		
.....						
D35MQA5GB4		1				
D44KXA MOBILE			8			
DESK SET (PUBLIC WORKS)		2				
DESK SET L1236		8				
DESK SET LTC 1 SERIES						1
.....						
DESKTRAC CONTROL SYSTEM						1
E08ENC ENCODER			2			
FARADAY INTERCOM			2			
FED/WTS/UNITROL			30			
H25JBF51B2AN		6				
.....						
H44SAJ SABER PORTABLE			12			
H44SSU PORTABLE			20			
HT 440 PORTABLE	5					
HT 50 PORTABLE			2			
HT 600 PORTABLE	2		2	4	3	
.....						
HT 10 PORTABLE					4	4
HT 1000 PORTABLE	3					
MAXAR MOBILE	3					
MAXAR 80 MOBILE					1	
MAXTRAC 300 BASE	2					
.....						
MAXTRAC 300 MOBILE	23	2				
MAXTRAC 800 MOBILE						13
MBM34SSA MOBILE			3			
MINITOR PAGER	7			54		
MITREK MOBILE	2					
.....						
MGSTAR CONTROL		3	1			
MOSTAR MOBILE		40				
MT1000 PORTABLE				15	1	
MTX PORTABLE						1
MVA CONVERTACOM				3		
.....						
MX300 CONSOLE					1	
N1352 CONVERTACOM		1				
RADIUS M100 MOBILE			2			
MOTOROLA REPEATER	1					
SABER 1 PORTABLE			1			
.....						
SPECTRA MOBILE			1	10		
GE STANDBY BASE RA10401				1		
STX PORTABLE		14				
SYNTOR X CONTROL		2				
SYNTOR X MOBILE		6				
.....						
T44SRA MOBILE			26			
T44SRA W/ SIREN			2			
V90123A CCTV CAMERA			2			
VOICE REPORTER	1					
VOTING RECEIVER C03RTB3108B				3		
.....						
XM288HB MONITOR			1			

EXHIBIT A