



CITY OF ELMHURST

REQUEST FOR PROPOSALS

FOR

ALARM MONITORING NETWORK WITH RADIO

June 17, 2009

*Version 2
June 17, 2009*

CITY of ELMHURST ALARM MONITORING NETWORK WITH RADIO

A. OVERVIEW

It is the intent of this specification to provide Dealers with the specifications and alarm requirements for a Radio Alarm Monitoring System Network (Network) to be owned by the City of Elmhurst (City). The successful Dealer shall provide the City, as part of a base proposal, with a turnkey, state-of-the-art alarm monitoring system that shall include an active network to monitor burglar and fire alarms throughout the City.

The Network proposed shall be installed to provide monitoring of all existing direct wire fire and burglar alarms currently being received by/at the City of Elmhurst Police Department, 125 East First Street, Elmhurst, IL, and the monitoring of additional fire alarm and burglar systems in the future, by a Keltron Wireless self-optimizing, two-way, digital, radio data transmission system. The City's current Dealer will maintain the monitoring of the existing hard-wired and radio direct connect subscribers until each is switched by the successful Dealer to the new radio network.

The network shall offer benefits not available with conventional, one-way, critical path, repeater-based technologies including, multiple paths, automatic selection of the best routes, and remote radio transceiver polling and programmability. The proposed Network shall employ encryption using a unique cipher code which shall be the property of the City. The Network shall be capable of monitoring the approximately 573 directly-connected alarm systems (442 via phone line and 131 via existing radio network) currently received by the City with a future approximate number of 700 alarm systems being monitored within the next (three) 3 years.

Signals generated from the Network will be sent to the City's remote station monitoring location at DU-COMM located at 600 Wall Street, Glendale Heights, IL. Signals will be sent via multiplexed phone connection, as recommended by the equipment manufacturer, from the City's head-end equipment located at its police headquarters station, 125 East First Street, Elmhurst, IL, to a remote receiver at DU-COMM. The remote receiver will be owned by the City.

The City shall contract with the successful Dealer to provide all necessary head end radio equipment, including the Keltron OP703V, to be installed at DU-COMM.

All City-owned radio equipment for subscribers requesting connection to, or who are required to, direct connect their fire alarm systems to the City's Network shall be provided as a part of the network.

In addition to the base proposal, Alternate #1 includes a second Keltron OP703VP that will be installed, if Alternate #1 is accepted, at the headquarters station of the Elmhurst Fire Department located at 404 North York Road, Elmhurst, IL. This will be connected via a multiplexed phone connection according to the equipment manufacturer's recommendations.

The successful Dealer shall provide on-going service and maintenance on all head-end equipment located at the Elmhurst Police headquarters station, remote equipment at DU-COMM, remote equipment located at the Elmhurst Fire Department (see Alternate #1), and all subscriber radio equipment. The successful Dealer shall provide on-going radio network service and maintenance.

The City will accept alternate proposals using Keltron Corporation equipment. See Section B that follows for instructions.

All Dealers are encouraged to familiarize themselves with existing conditions during the Mandatory Pre-Proposal meeting prior to making their proposals. Contacts are:

Dominic Panico, Elmhurst Police Department: 1-630-530-6407

Battalion Chief Scott Wallace, Elmhurst Fire Department: 1-630-530-3029

B. CITY REQUIREMENTS FOR DEALERS PARTICIPATING IN THE RFP PROCESS

1. All Dealers must be an authorized Keltron Wireless dealer in good standing. Provide a letter from the manufacturer attesting to this item with your proposal.
2. Dealers must attend the Mandatory Pre-Proposal meeting at the time and location indicated in the cover letter for this RFP. Failure to attend the Pre-Proposal meeting will disqualify the Dealer from the remainder of the process.
3. Dealers must meet all dead-lines as indicated in the cover letter for this RFP.
4. Dealers must meet all terms and conditions set forth by the City of Elmhurst regarding rules for providing bids and proposals.
5. Dealers must provide a proposal based on the specifications and instructions within this RFP package. It is the intent of this proposal for the City of Elmhurst to receive a Keltron Wireless fire and burglar alarm monitoring network in turn-key fashion. If the Dealer has any questions regarding items, errors, or omissions found in this proposal package it is the Dealer's responsibility to notify the City, or its representative, in writing at least five (5) business days prior to the scheduled proposal opening. The City, or its representative, will respond to written questions at least two (2) business days prior to the scheduled proposal opening.
6. The City will accept alternates to the specifications included in this proposal so long as the Dealer submitting the alternate:
 - a. Provides a base bid in accordance with this proposal; and,
 - b. Provides the alternate on a separate sheet attached to the base proposal identified as "Alternate-Proposal" which explains in detail the specifics of the alternate proposal and its costs.
7. Successful Dealer shall provide not less than two (2) references that will illustrate the Dealer's past knowledge and experience in the development and maintenance of a municipally-owned wireless alarm network. The required references shall be municipalities or fire districts that currently own and operate a Keltron Wireless Network that the Dealer has installed and is currently maintaining. **Use the provided sheet for providing references when submitting the proposal.**

8. Successful Dealer must be properly licensed by the State of Illinois Department of Professional Regulation as an alarm contractor. Provide a copy of the requested license with the proposal.
9. The successful Dealer shall use and complete the included questionnaire and pricing sheets, or identically formatted reproductions, when providing their proposal.
10. The intended length of the contract associated with this proposal will be **three (3) years** from the date of system acceptance with the option to renew for 5 additional years. The actual length of the contract is subject to final approval by the Council of the City of Elmhurst and is subject to Illinois state statutes. Either party may opt out of the agreement by giving the other party written notice 60 days prior to exiting the agreement.

C. CITY RFP CONTRACT SPECIFICATIONS

1. Only new equipment shall be used by the successful Dealer.
2. For the purpose of asset management by the City of Elmhurst, the serial number (where provided by the manufacturer), or other assigned unique identifier, for each piece of equipment supplied to the City by the successful Dealer shall be indicated on packing slips.
3. The successful Dealer shall install, service & maintain all equipment specified herein including the radios installed in subscriber premises. The radios to be installed at subscribers' locations will be purchased by the City from the successful Dealer at an agreed upon price.
4. The successful Dealer shall provide a tamper switch for each radio which indicates an off-normal condition (supervisory signal) at the PSAP when the radio's door is opened. Such signal shall be self-restoring to normal (non-latching) when the door is secured in the closed position.
5. The successful Dealer shall provide, or cause to be provided, signage on each radio, and each battery box where provided, which states the following:

“Property of the City of Elmhurst-Access to the radio and associated equipment is limited to the City of Elmhurst and its authorized Dealer. All others subject to prosecution.”

Such signage shall be conspicuously posted on the front of the equipment.

6. The successful Dealer shall provide the City with the radio cipher code which shall become the property of the City. The proposal shall verify that this will be provided at the inception of the Network.
7. The successful Dealer shall provide the City with all available and applicable warranties and guarantees as provided by the manufacturer. Furthermore, the successful Dealer shall extend the manufacturer's warranty to a period of 2 years. This shall include all parts and labor from the date of head-end, remote equipment, and subscriber location radio installations. Provide all manufacturers' warranty information, and verify that the extended warranty will be provided, with the proposal.
8. The City of Elmhurst currently has already been assigned the frequency which shall be used for the Network. The successful Dealer shall coordinate the usage of frequency with the Elmhurst Fire Department.

9. The successful Dealer shall provide for a single key system for all radios using the Keltron Private Labeling Program. All keys shall be provided to the City. The successful Dealer shall advise the City of the number of keys it needs for servicing the radio equipment and the name of those holding each key.
10. The successful Dealer shall provide the City with its plan for the installation of all head-end equipment at the Elmhurst Police headquarters station, any alternate equipment at the Elmhurst Fire Department and DU-COMM (if applicable), and the subscribers' radio equipment. The plan of installation shall take into account the following required target dates:
 - a) The Network head-end equipment, and alternates (if applicable), to be installed at the Elmhurst Police headquarters station shall be installed and be capable of receiving alarm signals from the subscriber locations on or before **October 23, 2009**.
 - b) The Dealer shall, within five (5) business days of being awarded the Network contract, provide the City with the following information regarding the head-end equipment at the Elmhurst Police headquarters station:
 - i. Space needs within the room or space which will house the head-end equipment; and,
 - ii. Electrical needs for equipment; and,
 - iii. Environmental requirements for the room which will house the head-end equipment as recommended by the manufacturer; and,
 - iv. Space needs, if any, for the temporary housing of equipment prior to, and during, the head-end equipment installation; and,
 - v. Space needs for the storage of the spare parts inventory and spare radios.

The Dealer shall coordinate the installation of all required equipment, including exterior antennas, with Mr. Panico of the Elmhurst Police Department who shall have the final approval of the location of all required equipment at the police department headquarters facility. The Dealer shall notify Mr. Panico at least five (5) business days prior to delivering network equipment to the Elmhurst Police Department for storage or installation.

- c) All radio equipment at the eleven (11) City building's listed in Exhibit #3 forming the Network's back-bone shall be installed on or before **October 23, 2009**.
 - d) Within five (5) business days of the first radios going on-line at subscriber locations, the successful Dealer shall provide three technical training classes on the Network's operation (one for each fire department shift – must be scheduled with B/C Wallace of the Elmhurst Fire Department) to on-shift fire suppression and fire prevention personnel. The lesson plan and specific topics will be determined prior to the classes through a meeting between the City and the successful Dealer.
 - e) Training may be required at DU-COMM for its dispatchers. This will be determined prior to the Network being turned on. The need for this training will be determined by the City and DU-COMM and would include at a least a minimum of two classes. The lesson plan and specific topics will be determined prior to the classes through a meeting between the City and the successful Dealer.
 - f) A total of 125 radios shall be placed on the network on or before **October 23, 2009**. The decision on which subscriber locations will make-up the first 100 installations will be between the City and the successful Dealer based on the need to successfully develop the network.
 - g) A total of 250 radios shall be placed on the network on or before **November 20, 2009**.
 - h) A total of 375 radios shall be placed on the network on or before **December 18, 2009**.
 - i) A total of 500 radios shall be placed on the network on or before **January 15, 2010**.
 - j) The remaining existing, and any other new, subscribers will be placed on the network on or before **January 31, 2010**. All target dates are subject to contracts being obtained from subscribers by the City and equipment being available from the manufacturer.
11. The successful Dealer shall maintain such inventory of spare parts and spare subscriber premise equipment as to guarantee that all alarm monitoring equipment at the Elmhurst Police headquarters station, alternate equipment locations, and the radios installed at subscriber locations can be repaired within a reasonable period of time from the time the Dealer is notified of a failure.

12. The successful Dealer shall, within 24 hours, advise the City, in writing, of any alarm that is unable to transmit its signals to the PSAP due to the radio alarm transmitter or Network.
13. The successful Dealer shall provide the City with on-site service within 4 hours of a request from the City or DU-COMM. On-site service shall be provided 24 hours per day, 7 days per week, including holidays.
14. The successful Dealer shall provide a turnkey wireless alarm monitoring network and shall provide the following information on the attached Price Worksheets:
 - a) The base proposal for equipment and installation costs of all head-end equipment at the police headquarters and the remote OP703V at DU-COMM specified in the alarm receiving equipment diagram prepared by Keltron Corporation. See Keltron system diagram in Exhibit #4. (Note: Any required transmission means between the Elmhurst Police headquarters station and DU-COMM will be the responsibility of the City of Elmhurst, but the required means shall be identified to B/C Wallace, in writing, within five (5) business days of the Dealer being awarded the Network contract.)
 - b) The equipment and installation costs for Alternate #1, OP703VP, to be installed at the headquarters fire station specified in the alarm receiving equipment diagram prepared by Keltron Corporation. See Keltron system diagram in Exhibit #4. (Note: Any required transmission means between the Elmhurst Police headquarters station and the Elmhurst Fire Department will be the responsibility of the City of Elmhurst, but the required means shall be identified to B/C Wallace, in writing, within five (5) business days of the Dealer being awarded the Network contract.)
 - c) The cost of each radio alarm transmitter and standard installation at subscriber locations (except e) below). All radios shall be provided with 60 hours of secondary power provided in a separate battery box or the main radio cabinet if sufficiently sized and approved by the City of Elmhurst. See standard installation drawing in Exhibit #5.
 - d) Separate pricing for City-owned location radio alarm transmitters and standard installations listed in Exhibit #3.
 - e) The monthly maintenance fee, per radio on the network, for all head-end.
 - f) The monthly maintenance fee, per radio on the network, for all alternate equipment.

- g) The monthly maintenance fee, per radio on the network, for all subscriber location radios.
 - h) The monthly maintenance fee, per radio on the network, for all City-owned location radios.
 - i) The cost of the Keltron Spare Parts Package.
 - j) The connection/programming fee that will be charged for each new subscriber location radio added to the Network.
 - i. The standard connection fee shall be waived for all existing direct connect subscribers, using hard-wire or wireless transmission methods, who connect to the new Network.
 - ii. The standard connection fee shall be waived during the contract period for City-owned subscriber locations added to the Network.
 - k) The cost of non-standard installations including installations which may require outside antennas.
 - l) The hourly cost for Network service not covered by the monthly service fee per radio.
 - m) The Dealer shall provide a detailed description of all services and equipment included as part of the maintenance program of head-end and remote equipment, and subscriber location radios.
 - n) The cost, in the form of an alternate, of any additional equipment or service that the Dealer feels is necessary to the successful development and maintenance of the radio network.
 - o) The cost of providing the training classes at the Elmhurst Fire Department and DU-COMM (see 10d.) noted above shall be factored into the proposal.
 - p) The cost of attending weekly Network status meetings with City representatives within the City shall be factored into the proposal.
15. The Dealer shall attach a complete equipment list for the base proposal; and, a separate list for Alternate #1 that shall also include any equipment that may be deleted from the base proposal if an alternate is accepted.

16. The Network, and all of its components, shall be listed by Underwriters Laboratories under Standards 864 (Control Units for Fire-Protective Signaling Systems), 365 (Police Station Connected Burglar-Alarm Units and Systems), and 1076 (Proprietary Burglary-Alarm Units and Systems) and other standards as are applicable. All wiring shall be in accordance with the NFPA 70 (2008 Edition).
17. The system shall be UL listed for REMOTE SUPERVISING STATION FIRE ALARM SYSTEM per NFPA 72, Chapter 8 (2007 Edition). All equipment provided as part of the radio network shall be utilized, installed, tested, and maintained in accordance with the product's UL listing. Verification of the listing of all equipment shall be provided with each Dealer's proposal.
18. The successful Dealer shall not affix any stickers or other items containing their company's name, address or phone number to the fire alarm control equipment within the protected premise. Additionally, the Dealer shall not solicit the owner or occupant of a building containing a radio that is a part of the Network for additional work related to the installation, testing or maintenance of the protected premise fire alarm system.

D. SYSTEM SPECIFICATIONS

The purpose of this specifications section is to describe the desired system configuration and minimum level of performance as required by the City. See Exhibits 4 and 5 for additional system specifications.

Direct Wire Monitoring System - Keltron DMP703

SIGNAL INPUTS

The system shall have the capability of monitoring at least 9 types of inputs simultaneously.

Keltron Active Radio – The system shall be capable of interfacing to the Keltron Corporation RF7300 – radio receiver for active private radio network via RS232. The Keltron active radio network shall use unique, patented, store and forward technology to alleviate the need for dedicated towers and any dependency on critical transmission paths. The RF7300 receiver shall be installed in a redundant configuration. All received alarms shall be annunciated in a way that is consistent with alarms received from D.A.C.T.'s. All field programmable, fixed fields, English text annunciation capabilities and outputs shall be supported. It shall be transparent to the operator whether these events were received via Radio or D.A.C.T.

SIGNAL OUTPUTS

1. Relay Outputs – The system shall have the capability of outputting up to 96 normally open or normally closed Form A relay contacts. The relays shall be mounted 16 to a plug-in circuit board and be accessible from the central system processor. Relay operation is to be completely programmable via the plug-in keyboard, with provisions for up to four (4) relays being energized by one input. Relay outputs for direct connects are to be programmed by zone number and condition code. The relays shall have a rating of 400mA at 100VDC, 10VA max. The output connections are to be made by means of a 25 pair standard telephone connector for ease of installation. Relays can be programmed to clear on acknowledgement, clear on change of alarm input state, or clear after a factory set time interval from 2 to 60 seconds. Coded signal inputs mandate the use of clear on acknowledge, or clear after a time interval. All relays in a system shall clear after the same time interval. Relay outputs which are energized upon receipt of a D.A.C.T. alarm signal shall be field programmable by event code for each individual account and will be cleared upon operator acknowledgement.

6. RS232C Output – RS232C ports shall be available which can transmit data upon receipt of an alarm in three modes. Mode 1 will send the 4 lines of the message printed on the internal Dot Matrix Printer. Mode 2 will output the first 10 line display screen from the edited data base message.

Modes 1 & 2 may be printed in 32 or 64 character lines. Mode 3 will output the RS232C data using Keltron's 97P0016 protocol to interface to a Keltron SIRS computer, another DMP703 monitoring system or a central station automation software package. Mode 3 will support all received alarm types and transmit in event dependent formats.

PRINTER

The printer shall:

1. Provide a permanent record of an event, including the time and date of an event for recall purposes.
2. Allow the dispatcher to have available field programmable printed messages or sets of instructions.
3. Allow removal of the message or instructions from the printer to take to the site of the event for reference purposes.

The printer shall have a minimum width of 32 columns to allow the instructions to be presented in an efficient manner. A minimum of 128 characters shall be printed per event.

At the user's discretion, it shall be possible to print any 3 lines of the programmed message in addition to the fixed first line which contains Alarm type, account number, and time and date stamp. Each user designated line may be printed in red or black for special emphasis. Radio and D.A.C.T alarms received via the DR703 interface support the printing of 2 user selected lines from the programmed message.

For ready availability and low cost, the printer shall be able to use commercially-available plain 3" roll paper. The printer shall be two-color at a minimum to differentiate between Fire Alarms and lesser priority events.

If desired, fanfold paper should be usable to allow collection in a fanfold catch tray. To assure the permanence of the record, the printout must not fade with time as is the case with thermally sensitive paper.

The paper shall be able to store a minimum of 5,000 lines of print per package.

DISPLAY

The display is used to present messages or instructions when an event occurs. The display shall be a cathode ray tube (CRT) at least seven (7) inches in size to allow major details of messages to be presented in a single display. A total of 320 characters must be allowed per display screen.

Character size should allow the operator to read the display from a distance of ten feet. The CRT shall have an orange or green phosphor screen for lower operator fatigue, and direct etch for glare-free viewing.

For all free format messages, the display shall have the capability to accentuate parts of the message by control of the video attributes. All or any part of the display can have increased intensity, be made to blink, or be presented in reverse video. These attributes shall be available singly or in combination and be programmable via the keyboard by the end user. These video attributes are not available for D.A.C.T. and Radio account display screens as they are used by the system to segregate the fixed format message display fields. Message capability shall be up to 32 characters per line and ten lines per page or screen. A minimum of 40 lines shall be available per input point.

The display shall have non-pressure sensitive "touch screen" operating controls to provide the operator with detailed menu-driven instructions for each operator function. A non-mechanical design with no moving parts must be used to provide long life and maintenance-free operation.

CLOCK/CALENDAR

The clock portion shall provide military time (24 hour) in hours, minutes and seconds. The calendar shall provide month, day and year. Once set, the calendar shall run automatically with no need to be reset at any time including leap years. A printout shall be made each time the clock/calendar has been changed to record that a change was made. Time and date set controls shall be locking keyswitch protected.

The clock/calendar shall run on 60Hz as available from the power line with its attendant accuracy, averaging less than one second per month deviation. When placed on battery operation, the unit shall automatically switch to a crystal-controlled time base, internally generated, averaging +/- 13 sec/month.

As an option, the system must be capable of synchronizing the real time clock to the National Institute of Standards and Technology (NIST) atomic time standard, via a Synchronized Master Clock from Spectracom or Chronolog Corporation or an approved equal.

SYSTEM OPERATION

When a change in any of the in-service inputs occurs, the system shall sound the audible alert, display the appropriate message, and print the appropriate message. In order to silence the audible, the operator must touch the ACK control. Touching this shall cause the audible to silence, and the ACKnowledge message to be printed. At this point, the operator shall have the option to put a zone out-of-service, or to view the message. This message shall remain displayed until CLEAR is touched, whereupon, the system returns to its regular

standby operation. If the operator does not touch ACK, the audible shall continue to sound, but no further printing shall occur for that event.

Inputs which are in a non-secure condition shall become part of a display sequence. Every 5.0 seconds, one of the inputs which is in an abnormal state shall be displayed. Touching FAST SCAN shall speed this to once every 1.0 seconds. In addition to non-secure zones, the sequential display will include out-of-service zones. The system shall allow 20,000 off normal accounts to rotate on the screen consecutively.

Zones shall be put out-of-service by touching the I/O SER control. Also, the phrase OUT OF SERVICE shall be displayed in the lower right quadrant of the screen. It shall be displayed in reverse video for ease of recognition. Touching I/O SER for a zone that is out-of-service puts it back in-service.

If the zone thus put back in service is not Secure, it will be treated as a new change in state and the operator alerted.

CONTROLS

All controls used in the normal operation of the system shall be long life, non-pressure sensitive, and non-mechanical.

The controls shall be presented on the face of the CRT. Intersecting that area of the CRT screen displayed as a control, either by touching or by placing a finger or similar object just in front of the screen, shall cause activation of that control. The result of touching that control shall be displayed in the contiguous area of the control. This shall allow multiple uses of the controls area with up to 16 controls displayed simultaneously. Some indication of control activation shall be provided; either an obvious system action will take place or audible feedback will be provided.

When no changes are being processed, the operator shall be presented with the following controls.

FEED

This shall cause the printer paper to advance.

FAST SCAN

Inputs in an abnormal state are displayed sequentially on the CRT screen with a 5 second period. Touching FAST SCAN shall cause this period to be 1 second.

NEXT

Touching this control button shall cause the screen to change and display the following control buttons.

DIAL-UP

This control shall cause the screen to display a Keypad, allowing the operator to select any style of alarm input to the system for alarm status recall purposes.

DISPLAY MESSAGE

This control shall cause the screen to display a Keypad, allowing the operator to select any alarm input to the system, and to display its programmed display message.

SET CLOCK

This appears only if the keyswitch is enabled. This control shall cause the screen to display a Keypad, allowing the operator to set the date and time.

PRINT MESSAGE

This control shall cause the screen to display a Keypad, allowing the operator to select any alarm input to the system, and printout its programmed print message.

LIST

This control shall cause a printout of all non-Secure alarm inputs, Out-Of-Service alarm inputs, and if the Block Zone Control Option is installed – the Out-Of-Scan alarm inputs.

PRINT

This control shall cause the printer test message – “PRINTER OK TIME & DATE” – to be printed.

CLEAR

This control shall cause the display to return to normal display sequencing.

BLOCK CONTROL

If the 97P0004 Block Zone Control Option is installed, this control shall cause the screen to display the Block Control Menu and Keypad to select the block number.

TRANSMIT

If the 95K2850 Auto/Manual Coded Transmitter Option is installed, this control shall cause the screen to display a Keypad allowing the operator to select the number of rounds, output #0, #1, or #2, and the coded signal to be transmitted.

RETURNING TO THE NORMAL DISPLAY SEQUENCE:

STOP -

This shall stop the sequential display to allow examination of a particular message. Also, this shall cause the touch area beneath the displayed message to change to include:

I/O SER – Touching this shall put a zone in or out of service. Out of service means that the operator will not be alerted to any changes in state for this zone. The status of this zone is included in the rotating display.

CLEAR – This returns the display to its normal sequencing routine.

FEED – This control shall cause the printer paper to advance.

When a change of state occurs, the audible alert sounds and the appropriate messages are printed and displayed. In the lower quadrant of the screen, just below the message, a form shall appear as follows:

ACK – Touching this shall cause the Acknowledge message to be printed and displayed and the audible to be silenced. This screen shall also display the FAST and FEED control buttons. After ACK is activated, the screen shall change and display the CLEAR, I/O SERVICE, and FEED control buttons.

SOFTWARE OPTIONS – DMP703

BLOCK ZONE CONTROL – IN/OUT OF SERVICE IN/OUT OF SCAN

This shall allow a block of multiple zones to be put out of service or out of scan with single button activation. If a block of zones is put out-of-service, each zone will rotate on the display sequentially on its own screen. If a block or blocks of zones are put out-of-scan, the first zone numbers in each block will appear in the normal rotation on a single full screen. Additional screens, if needed, are accessible from the touch screen. Once edited, accessibility is from the front panel touch screen display. It shall be possible to edit 120 individual blocks containing a maximum of 500 zones each, or 2,000 blocks of 30 zones each, using the standard 64K of memory that comes with this option. As the block size decreases, the number of available blocks increases. Memory capacity may be expanded to allow the creation of 2,000 blocks of 500 zones each. A zone may be included in more than one block and its In or Out-of-Service/Scan condition shall be determined by the block most recently activated.

HISTORY – A battery backed internal RAM storage facility for all operations performed by the DMP703 shall be optional. Accessibility is menu driven from the keyboard. A minimum of 4080 events shall be provided per single storage facility. Expansion to 16,352 events shall be possible by adding additional memory capacity and a software upgrade. An external computer shall not be required. As well as events, actions recorded shall include Alarm Activations, Restorals and Acknowledgements, In/Out Service functions, Clock Set functions, Master Clock failures, Edit sessions, AC loss alarms, Communication failures, all System Supervisory alarms, and Block Zone Control functions. The history record may be printed or displayed in its entirety, or sorted by zone, time, type, priority, and date or in any combination thereof.

HIS-PC – The system shall be capable of being connected to a PC either locally or via modems. A password will be required to permit system access. This connection shall be for the purposes of downloading the history file from the system to a PC and generating historical activity reports.

REMP703 – The system shall be capable of being connected to a PC either locally or via modems. A password will be required to permit system access. This connection shall be for the purpose of database backup, restoral, creation, editing, archiving, printing, or remote programming. This connection shall be transparent to the operator and must not affect alarm receiving in any way.

EDITOR PASSWORD – The system shall be capable of providing password protected database access. This shall limit access to the programmed message database to authorized personnel.

BACKGROUND ALARM PROCESSING – The system shall provide the ability to permit alarms from a remotely monitored location to be passed through an operating system on the way to their final destination without operator

interruption. If the signal transmission path is interrupted, the last system before the point of interruption becomes the dispatch location.

FT-OPTION – The system shall be capable of dedicating any or all operator's consoles to receive a particular alarm type. The Central System Processor, when equipped with a video display, will annunciate all alarm types. The fire alarms may go to a particular operator's console at the Fire Department, and the Burglary or Hold-Up alarms may go to a separate operator's console at the Police Department. In the unlikely event of a system failure all alarms will be annunciated on the operational operators console without regard for the FT-Option.

MASTER ACKNOWLEDGE – When more than 10 events are pending acknowledgement, the system shall provide a single control to automatically acknowledge up to 50 restoral and line trouble alarms from direct connect accounts only. All events shall print as received. This feature will allow operators to concentrate on high priority alarm events.

SG-14 – The SG-14 is a 14 tone sound generator. The individual tones are field programmable, by priority, for direct connect inputs.

OPERATOR LOG-ON/OFF – The system shall be capable of providing operator accountability by requiring the operator to LOG-ON with a unique password before alarm acknowledgements will be accepted. LOG-ON/OFF activities shall be recorded in the optional system history file.

SHUNT MODE – The system shall be capable of providing a "TROUBLE SHUNT MODE" which ignores line trouble and restore from trouble conditions for direct wire inputs only. This shall be used for swinging zones rather than Out-of-Service mode so full alarm conditions will still be reported.

NETWORKED SYSTEMS – The system shall be capable of supporting the connection of multiple system processors with alarm receiving and dispatch capabilities. Also supported shall be redundant databases with automatic updates between locations and cross-acknowledge functions.

Active Radio Monitoring System - Keltron RF7300

The proposed system shall consist of redundant alarm receiving system processors in a "hot standby configuration." Required are, two alarm receiving system processors interconnected by software and hardware, in order to provide an automatic switch-over to the standby unit in case of failure of the primary (active) unit. In addition, a means shall be provided to switch the input and output signals manually, between alarm receiving system processors, via a push button accessible on the switch over assembly front panel. Automatic or manual switch over operations shall be seamless and require no additional operator intervention. The active alarm receiving processor shall monitor and supervise all inputs and

provide all required outputs. The standby alarm receiving processor shall accept all system synchronization data from the active unit and update all internal statuses. The standby unit shall also supervise all connected inputs and report only those failures that would prevent the standby unit from becoming the active unit and immediately providing fully operational performance. The standby unit shall not report as failures those disconnected inputs and outputs accepted or provided and supervised by the active alarm receiving processor.

The active radio network controllers shall also be proposed in a completely redundant configuration. Sharing of antenna, cabling, band pass cavity, transceiver or surge protection between network radio controllers shall not be acceptable. The active alarm receiving system processor shall monitor and supervise the redundant radio network controllers regardless of active or standby status. The active network radio controller shall provide the interface to the radio alarm monitoring network for the alarm receiving system as well as to the required radio network maintenance and remote programming software utility.

Alternatively, at the City's discretion, the two alarm receiving systems and radio receivers may be installed in separate physical locations and shall then be connected in a peer-to-peer network. In this configuration, alarm monitoring and dispatch may be accomplished from either location and the manual switching of active and standby radio receiver operating modes shall be acceptable.

Employed software shall be such that a serial data connection shall keep active and standby, or peer-to-peer connected alarm receiving system processors synchronized. System synchronization shall insure account and zone status memory, database entries, input status, output status, In/Out-of-Service status, Account-in-Test status and operator response status are identical between processors to insure a seamless switch over thereby preventing any chance of either false or unreported alarm activity.

This serial data connection shall be supervised, on both sides of the link, by periodic polling or other effective and acceptable means. Communication failures shall be reported without delay to the system operator and the faulted system shall stop responding to supervisory line check polling from connected third party systems, such as CAD, Graphics PCs or Central Station Automation Software.

SIGNAL INPUTS

The radio network alarm monitoring system shall have the capability of monitoring 9 types of inputs simultaneously. The system shall be modular and employ a separate Radio Network Controller to insure ease of maintainability, serviceability, replacement and ease of use. The system shall not require towers or tower based, dedicated RF repeaters to route the signals from the Radio Alarm Transmitters to the network receiver(s). The system shall be two-way.

(RAT) Radio Alarm Transmitter – The system shall be capable of receiving signals from Radio Alarm Transmitters. Radio Alarm Transmitters shall include a 4 x 4 version. Provided shall be both EOL resistor and Polarity Reversal type inputs. In addition, radio interface cards with full Class A, 4 wire inputs shall be optionally available.

The associated firmware for Radio Alarm Transmitters shall support up to six (6) hexadecimal digits of account number, four (4) hexadecimal digits of zone number, and 64 three character event codes per account. Each Radio Network Controller shall support a network of at least 999 Radio Alarm Transmitters. The monitoring system shall support the connection, supervision and monitoring of multiple active or standby Radio Network Controllers.

Radio Alarm Transmitter check-in cycles shall be able to be set from 6 minutes to 24 hours and the radio receiver account supervision shall be able to be set from 1 to 168 hour intervals enabling frequent transmitter supervision and a high level of system integrity to meet the users needs.

The system software shall allow accounts to be put IN and OUT-OF-SERVICE. If an account is OUT-OF-SERVICE, all incoming transmissions from that account will be ignored. When an account is returned to IN-SERVICE from an OUT-OF-SERVICE condition, all zones will be restored to normal at the receiver.

The system software shall support an Account TEST mode. If an account is placed in TEST mode, all incoming signals will be printed in the standard alarm printout format and optionally stored in History. However, there will be no display or audible alert to the operator.

The system shall allow up to 500 alarms to be included in the rotating, sequential, alarm display.

SYSTEM OPERATION

When a signal is received from a network radio, the system shall sound the audible alert, display the appropriate message, and print the appropriate message. In order to silence the audible, the operator must touch the ACK control. Touching this shall cause the audible to silence, and the ACKnowledge message to be printed. This message shall remain displayed until CLEAR is touched, whereupon, the system returns to its regular standby operation. If the operator does not touch ACK, the audible shall continue to sound, but no further printing shall occur for that event.

Inputs which are not in the Secure condition shall become part of a display sequence. Every 5.0 seconds, one of the inputs which is in an abnormal state shall be displayed. Touching FAST SCAN shall speed this to once every 1.0 seconds. In addition to non-Secure zones, the sequential or rotating display will include a screen for accounts out-of-service and a screen for accounts in test mode.

ACTIVE RADIO NETWORK

The radio network shall consist of redundant radio transceivers and network controllers, an alarm monitoring system and field located Radio Alarm Transmitters. Antenna, batteries and other support equipment such as surge suppression devices shall be supplied as required to insure a complete turn-key system. The network shall employ proprietary, patented, store-and-forward operation under software control. The radio network shall use distributed intelligence and not be dependent upon towers or repeaters. Critical path systems utilizing towers or dedicated repeaters shall be proposed in a completely redundant configuration. That is all repeaters shall be fully redundant to insure every Radio Alarm Transmitter signal reaches at least two repeaters on each of its two towers with sufficient signal strength to insure continuous and reliable performance under all conditions.

The radio network shall be two-way, self-routing, self-healing and utilize supervised communications. Each Radio Alarm Transmitter shall store at least six alternate routes to the central receiver. The Radio Alarm Transmitter shall provide an integral repeater and dynamically adapt to changes in the network. Radio Alarm Transmitters shall self-test and shall automatically enroll in the network after being programmed. The radio network shall provide for the reliable reception of signals beyond direct radio reach of the radio receiver location. The radio technology used by the network shall insure reliable radio signaling paths are always available and guarantee that even overlaid radio networks do not conflict. All Radio Alarm Transmitters in the network shall operate on the same fixed frequency and meet narrow bandwidth requirements. System software shall limit proper annunciation and operation to authorized subscriber Radio Alarm Transmitters. Radio network software shall also be included for operation on a standard PC. This supervisory software shall provide network routing and transmitter status information to enable network maintenance and expedient troubleshooting. Software for remote transmitter interrogation and reprogramming from the central receiver shall be provided. The Radio Network Controller shall provide audible and visual indications of all faults and failures including a tamper condition as well as printer malfunctions or connection problems.

Systems requiring manufacturer programming or installation shall not be acceptable. The active network radio system manufacturer shall provide dealer and system City training and certification in installation, programming, maintenance and troubleshooting.

RADIO NETWORK CONTROLLER

The Network Controller shall provide extensive information to the installer/technician as to its status to facilitate the isolating and correcting of faults in the network or control equipment.

The controller shall provide data outlets for the network transceivers, antennas, supervisory PC, radio network monitoring system and network printer. In addition, it must decode the received data from the transceiver. The controller will provide error detection and correction for both the transmitted and received data. In addition, the controller will convert the received data to a format suitable for decoding and database storage by the supervision software and annunciation by the monitoring system.

A switch should place the radio network controller in either the active or the standby mode. The mode is indicated by an LED. The operating modes of all controllers shall be indicated at the alarm monitoring system. The front panel of the radio network controller shall be divided into five sections that contain all of the various LED's and switches. They shall provide the interface between the radio network controller and the installer/operator. The alarm monitoring system to which it is connected should provide additional communication and status information.

Visual status indicators shall include: a transmit LED – on when the network control transceiver is transmitting. A receive LED for signals detected at the receiver frequency. A wait LED if the radio receiver is waiting for acknowledgment of the last transmission by the monitoring system. A receiver LED for an internal radio receiver problem or a problem with the optional external printer. A computer LED if the alarm decoder is not properly connected. A CPU LED indicates that the radio receiver processor has reset. The transceiver LED will be illuminated if a tamper condition exists at the radio transceiver as well as for power or connection problems. A PY LED indicates that input power is applied. The DC LED is on when proper internal DC is present.

The alert section shall contain two momentary push button switches – silence and acknowledge – and a single LED. The alert section is active when either of two particular faults occur. One is a radio receiver CPU fault which also causes illumination of the CPU fault LED and the other is a failure of the radio receiver to receive an acknowledgment from the alarm decoder which also lights the computer LED in the fault detection section. These faults cause the alert LED to light and the radio receiver's audible device to activate. Depressing the silence switch silences the sounder whereas the acknowledge switch also turns off the LED until the fault is detected again.

SUPERVISORY SOFTWARE

The supplied network supervisory software application shall have the capability of communicating with the Radio Alarm Transmitters such that their data and control functions can be downloaded to each specific transmitter. This application shall provide powerful tools for programming of remote subscriber transceivers and maintain a database of network operations. This database shall provide a window for observing data traffic on the active radio network. Capabilities shall include retrieving data from the remote radio transceivers. This action shall update the radio network database with the transceiver parameters, test the transceiver and record the message routing. Remote transceivers shall also be capable of responding to a poll to ascertain their status and routing table. The software shall also be able to force the transceiver data to take a specific route. Remote programming of the check-in time and zone configuration shall also be supported as well as remote reset, and deactivation and reactivation of the transceivers. Timing parameters such as consecutive events delay, loop response, radio packet life, and the antenna cut/acknowledge delay fault output, and time and date shall be capable of remote programming. The software shall also support two-way text messaging and automatic transceiver enrollment in the network. The software output will show individual transmitter status. This includes supervisory commands, self-testing routines, signal strength, diagnostics, link layer, netcon, and routing tables.

The supervisory software shall display and print the operation of the radio system to include:

1. all transmissions to and from the controller.
2. all messages to and from the controller.
3. control message sent to field transmitters.
4. database all routes to the field transmitters.
5. having provisions to modify or delete individual transmitter numbers.
6. automatically add new transmitters as they are put on line and join the network.

The active network radio supervisory software shall be provided pre-installed on a 19" EIA rack mount PC with DOS operating system and 8.4" color LCD display. The PC shall run on 24VDC, be custom configured and factory certified for use with the supervisory software and provide a VGA output for an external monitor. The rack mount PC shall be provided with a rack mount keyboard. This requirement is essential and no alternate will be accepted.

RADIO ALARM TRANSMITTER

The Radio Alarm Transmitters shall be capable of providing multiple reporting routes over a web-like network structure. Each Radio Alarm Transmitter must include a network communications repeater and adapt dynamically and automatically to insure the transmission of all network communications via the best path. Network communication paths shall be frequently and dynamically adjusted for current operating conditions to assure optimum performance.

All Radio Alarm Transmitters shall communicate and position themselves in a hierarchical network based upon their signal strength communications with each other and the network receiver.

All Radio Alarm Transmitters shall be housed in a locking steel case measuring 13.25" H X 8.5" W X 4.3" D. Cabinet key shall be unique to the City and the City's logo and phone number shall be silk screened on the front of the cabinet.

All Radio Alarm Transmitters shall be provided with a tamper switch which shall report an off-normal condition at the PSAP when the radio's door is in the open position.

The transmitters shall use a UHF Data Radio, with a 2-watt output, and a frequency range of 450-470 MHz. Input power shall be 16.5 AC at 40VA with a 12 VDC back-up battery contained in the cabinet.

Current ratings shall be no more than 175 ma in standby and 800 ma in transmit. The operating temperature shall be zero (0) degrees to fifty (50) degrees C at a minimum. The back-up battery shall be capable of powering the transmitter for at least 60 hours. The transmitter shall report low battery and AC status. All input zones will be individually programmable for FIRE, normally open, normally closed, end of line and restoral.

The Radio Alarm Transmitter shall be capable of being programmed on location or remotely from the central station receiver over the air.

Programmable parameters shall include but are not limited to: identification number, password code, automatic check-in time, zone input definition and restoral reporting suppression.

The Radio Alarm Transmitter shall be installed in an appropriate physical and environmentally protected location in a building structure capable of antenna mounting should an outside antenna be required.

The TTL settings for the Radio Alarm Transmitter shall be set as follows: Alarm Signals – 30 minutes; Supervisor Signals – 20 minutes; Trouble Signals – 10 minutes.

NETWORK RECEIVER

Antenna shall be Omni-directional, 9db gain, power to 250 watts.

Transmitter

RF output power	2 watts
Modulation Deviation	+/-5 kHz Max
Audio harmonic distortion	less than 6%
FM hum and noise	55db
RF power spurious emission	155db DC to 1000 MHz
Modulation method	16F/3 (FM)
Output impedance	50 Ohms

Receiver

Sensitivity	12 dB SINAD, 0.35uv; 20db quieting 0.50 uv
Selectivity	70db at +/- 25 kHz
Image & spurious rejection	60 dB
Squelch sensitivity	0.5uv
Modulation acceptance bandwidth	7KHz
Hum & noise rejection	40db unscelched, 55 db squelched
Receiver bandwidth	1 MHz
Intermodulation rejection	60 dB

<u>FCC compliance</u>	Parts 22, 74, 90, 95
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Transmitter & Receiver Common

Frequency, Standard ranges	450 to 470 MHz
Channel spacing	12.5 kHz

Radio Alarm Transmitter

RADIO TRANSMITTER

RF output power	2 watts
Modulation Deviation	+/-5 kHz Max
Audio harmonic distortion	less than 6%
FM hum and noise	55db
RF power spurious emission	155db DC to 1000 MHz
Modulation method	16F/3 (FM)
Output impedance	50 Ohms

RADIO RECEIVER

Sensitivity	12 dB SINAD, 0.35uv; 20db quieting 0.50 UV
Selectivity	70db at +/- 25 kHz
Image & spurious rejection	60 dB
Squelch sensitivity	0.5uv
Modulation acceptance bandwidth	7KHz
Hum & noise rejection	40db unsquelched, 55 dB squelched
Receiver bandwidth	1 MHz
Intermodulation rejection	60 dB

FCC compliance Parts 22, 74, 90, 95

Common components should be used to decrease spare inventory requirements. These include an FM radio transceiver, VHF or UHF, typically 2 watts, and a communications controller made up of a microprocessor and a modem.

PROGRAMMER

The programmer shall be a handheld unit. It shall be programmable for baud rates of 110 baud to 9600 baud with variable lengths and parity. In addition, the programmer shall have a complete alphanumeric keypad with (5) delineated function buttons. The function buttons can be preprogrammed with a data program that is stored in the non-volatile memory. The programmer shall be no larger than 9 inches by 2 inches and weigh less than one pound. The programmer shall be powered from the Radio Alarm Transmitter without requiring any modification to the transmitter or programmer.

ANTENNA

The remote radio alarm transmitters shall be available with several sizes of antennas to fully satisfy the intended application. Antennas providing the following gains, 2.5 dB, 3 dB, 5 dB, 6 dB, 7 dB, and 9 dB, shall be available. Antennas suitable for both inside and outside building use shall be available. For applications demanding an aesthetically pleasing solution, a stealth antenna shall be available. Systems requiring the exclusive use of outside mounted antennas shall not be acceptable due to the increased cost to the City.

AFFIDAVIT OF COMPLIANCE - *(Optional if Used by Elmhurst – Or Use Alternate Format as Required Locally)*

APPLICANT: _____
Name

Address

As a condition of entering into a contract with the City of Elmhurst, and under oath and penalty of perjury and possible termination of contract rights and debarment, the undersigned, (Please Print or Type) _____
_____ being first duly sworn on oath, deposes and states that he is _____ (the sole owner, a partner, a joint venturer, the President, the Secretary, etc.) of _____ (Name of Company), the party making the foregoing proposal, and that he has the authority to make any disclosures or certifications required by this Affidavit on behalf of the Dealer and that all the information contained in this Affidavit is true and correct in both substance and fact.

DISCLOSURE OF BENEFICIARIES

Section 1.

- A. Nature of Applicant: (Please check one)
- | | | | |
|-----------------------|-------|------------------|-------|
| 1. Natural person | _____ | 4. Trust/Trustee | _____ |
| 2. Corporation | _____ | 5. Partnership | _____ |
| 3. Land Trust/Trustee | _____ | 6. Joint Venture | _____ |
- B. If applicant is an entity other than described in Section 1A, briefly state the nature and characteristics of the applicant below.

- C. If in your answer to Section 1A you have checked box 1, 2, 3, 4, 5, or 6 identify by name and address each person or entity who is a 5% shareholder in the case of a corporation, a beneficiary in the case of a trust or land trust, a joint venturer in the case of a joint venture, or who otherwise has a propriety interest, interest in profits and losses or right to control such entity:

NAME	ADDRESS	PERCENT OF INTEREST
1. _____		
2. _____		
3. _____		
4. _____		

IMPORTANT NOTE: In the event your answer to Section 1A identified entities other than a natural person, additional disclosures are required for each such entity.

PROPOSAL RIGGING AND PROPOSAL ROTATING

Section 2: That in connection with this procurement,

- A. The proposal is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization or corporation;
- B. The Dealer has not in any manner directly or indirectly sought by consultation, communication or agreement with anyone to fix the proposal price of said Dealer or any other Dealer or to fix any overhead profit or cost element of such proposal price or that of any other Dealer or to secure any advantage against the public body awarding the contract or anyone interested in the proper contract;
- C. The proposal is genuine and not collusive or sham;
- D. The prices or breakdowns thereof and any and all contents which had been quoted in this proposal have not been knowingly disclosed by the Dealer and will not be knowingly disclosed by the Dealer directly or indirectly to any other Dealer or any competitor prior to opening;
- E. All statements contained in such proposal are true;
- F. No attempt has been made or will be made by the Dealer to induce any other person or firm to submit a false or sham proposal;
- G. No attempt has been made or will be made by the Dealer to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition;

- Section 3.** The undersigned further states that: (circle A or B)
- A. He is the person in the Dealer's organization responsible within that organization for the decision as to the prices being proposed herein and that he has not participated, and will not participate, in any action contrary to Sections 2A through 2G above; or
 - B. He is not the person in the Dealer's organization responsible within that organization for the decision as to the prices being proposed herein but that he has been authorized to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to Sections 2A through 2G above and as their agent does hereby so certify; and
 - C. That he has not participated, and will not participate, in any action contrary to Sections 2A through 2G above.
- Section 4.** The undersigned certifies that the Dealer has never been convicted for a violation of State laws prohibiting proposal rigging or proposal rotating.

**THE REQUIREMENTS OF THE
ILLINOIS DRUG FREE WORKPLACE ACT**

- Section 5.** The undersigned will publish a statement:
- A. Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the aforementioned company's workplace;
 - B. Specifying the actions that will be taken against employees for violations of this prohibition;
 - C. Notifying the employees that, as a condition of their employment to do work under the contract with the City of Elmhurst, the employees will:
 - 1. Abide by the terms of the statement; and
 - 2. Notify the aforementioned company of any criminal drug statute conviction for a violation occurring in the workplace not later than five (5) days after such a conviction.
 - D. Establishing a drug free awareness program to inform the aforementioned company's employees about:
 - 1. The dangers of drug abuse in the workplace;

2. The aforementioned company's policy of maintaining a drug free workplace;
 3. Any available drug counseling, rehabilitation, and employee assistance programs; and
 4. The penalties that may be imposed upon employees for drug violations.
- E. Making it a requirement to give a copy of the statement required by Section 5 to each employee engaged in the performance of the contract with the City of Elmhurst and to post the statement in a prominent place in the workplace;
 - F. Notifying the City of Elmhurst within ten (10) days after receiving notice under Section 5.C.2 from an employee or otherwise receiving actual notice of such a conviction;
 - G. Imposing a sanction on, or requiring the satisfactory participation in drug abuse assistance or rehabilitation program by, any employee who is so convicted, as required by Section 6, below;
 - H. Training personnel to effectively assist employees in selecting a proper course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that an effectively trained counseling and referral team is in place;
 - I. Making a good faith effort to continue to maintain a drug free workplace through implementing these requirements.
 - J. Making a good faith effort to continue to maintain a drug free workplace through implementation of this policy.

Section 6. The undersigned further affirms that within thirty (30) days after receiving notice from an employee of a conviction of a violation of the criminal drug statute occurring in the aforementioned company's workplace he shall:

- A. Take appropriate personnel action against such employee up to and including termination; or
- B. Require the employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency.

TAX COMPLIANCE

Section 7. The undersigned on behalf of the entity making the foregoing proposal certifies that neither the undersigned nor the entity is barred from contracting with the City of Elmhurst because of any delinquency in the payment of any tax administered by the State of Illinois, Department of Revenue, unless the undersigned or the entity is contesting, in accordance with the procedures established by the appropriate revenue act, liability of the tax or the amount of tax.

Section 8. The undersigned or the entity making the proposal or proposals understands that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition, voids the contract and allows the municipality to recover all amounts paid to the individual or entity under the contract in a civil action.

EQUAL EMPLOYMENT OPPORTUNITY

Section 9. This EQUAL EMPLOYMENT OPPORTUNITY CLAUSE is required by the Illinois Human Rights Act and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, et seq.

Section 10. In the event of the Dealer's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Human Right Act, or the Rules and Regulations for Public Contracts of the Department of Human Rights (hereinafter referred to as the Department) the Dealer may be declared non-responsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

During the performance of this contract, the Dealer agrees:

- A. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or ancestry; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- B. That, if it hires additional employees in order to perform this contract, or any portion hereof, it will determine the availability (in accordance with the Department's Rules and Regulations for Public Contracts) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- C. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status,

national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service.

- D. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Dealer's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations for Public Contract. If any such labor organization or representative fails or refuses to cooperate with the Dealer in its efforts to comply with such Act and Rules and Regulations, the Dealer will promptly so notify the Department and the contracting agency will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- E. That it will submit reports as required by the Department's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations for Public Contracts.
- F. That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations for Public Contracts.
- G. That it will include verbatim or by reference the provisions of this Equal Employment Opportunity Clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as the other provisions of this contract, the Dealer will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Dealer will not utilize any subcontractor declared by the Illinois Human Rights Department to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

Section 11. For the purposes of subsection G of Section 10, "Subcontract" means any agreement, arrangement or understanding, written or otherwise, between a public contractor and any person under which any portion of the public contractor's obligations under one or more public contracts is performed, undertaken or assumed; the term "subcontract," however, shall not include any agreement, arrangement or understanding in which the parties stand in the relationship of an employer and an employee, or between a bank or other financial institution and its customers.

Section 12. It is expressly understood that the foregoing statements and representations and promises are made as a condition to the right of the Dealer to receive payment under any award made under the terms and provisions of this proposal.

Section 13. Have written sexual harassment policies that shall include, at a minimum, the following information: (i) the illegality of sexual harassment; (ii) the definition of sexual harassment under State law; (iii) a description of sexual harassment, utilizing examples; (iv) the Dealer's internal complaint process including penalties; (v) the legal recourse, investigative and complaint process available through the Department and the Commission; (vi) directions on how to contact the Department and Commission; and (vii) protection against retaliation as provided by Section 6-101 of this Act. A copy of the policies shall be provided to the Department upon request.

THE AMERICANS WITH DISABILITIES ACT

Section 14. The Americans with Disabilities Act (42 U.S.C. 12101 et seq.) and the regulations thereunder (28 CFR 35.130) (ADA) prohibit discrimination against persons with disabilities by the State, whether directly or through contractual arrangements, in the provision of any aid, benefit or service. As a condition of receiving this contract, the undersigned Dealer certifies that services, programs and activities provided under this contract are and will continue to be in compliance with the ADA.

ILLINOIS PREVAILING WAGE

Section 15. The undersigned shall comply with the applicable requirements of the Illinois Prevailing Wage Act, 820 ILCS sec. 130/0.01 et seq. as amended for public works projects. Not less than the prevailing rate of wages and benefits, as found and determined by the City of Elmhurst and the Illinois Department of Labor, shall be paid to all laborers, operators, mechanics, and workmen performing work under this contract. A copy of the current prevailing wage ordinance adopted by the City of Elmhurst is available upon request. The contractor and all subcontractors shall be required to comply with all provisions of The Prevailing Wage Act established by the State of Illinois.

The contractor shall be responsible to verify that the wages being paid comply with the current wage requirements during the period that work is performed under this contract. This may require periodic review of wage requirements both with the City of Elmhurst and the Illinois Department of Labor. In the event that the wage requirements have increased as adopted by Ordinance by the City of Elmhurst from the requirements in effect on the date of the proposal opening, the contractor shall be required to comply with all new regulations. The contractor shall be entitled to an increase in the proposal price, equal to the amount of the increase for the wage requirements, as approved by Ordinance by the City of Elmhurst.

The contractor is required to insert into each subcontract, and into the project specifications for each subcontract, a written stipulation requiring that not less than the prevailing wage rates shall be paid to all laborers, workers, and mechanics performing work under the contract. It shall also be mandatory upon each subcontractor to insert into each lower tiered subcontract, and into the project specifications for each lower tiered subcontract, a

stipulation to the effect that not less than the prevailing rate of wages shall be paid to all laborers, workers, and mechanics performing work under the contract. A contractor or subcontractor who fails to comply with this subsection (b) and requirements shall be in violation of The Prevailing Wage Act.

The contractor and each subcontractor shall be required to prepare and keep, for a period of not less than three years from the final completion date of this contract, true and accurate records of the name, address, telephone number when available, social security number, and occupation of all laborers, workers, and mechanics employed by them during the performance of this contract. The records must show the actual hourly wage paid in each pay period to each employee and the hours worked each day in each work week and the starting and ending times of work for each employee. Such records shall be open at all reasonable hours for inspection by the City and to the Director of Labor and his deputies and agents. Upon request by the City or the Director of Labor, all payroll records shall be copied and submitted to the requesting body at no cost to the City or the Department of Labor.

The contractor and each subcontractor shall be required to submit certified payroll records, as required by the State of Illinois, to the City on a monthly basis. It shall be mandatory upon the contractor or construction manager to whom a contract for public works is awarded to post, at a location that is easily accessible to the workers engaged on the project, the prevailing wage rates for each craft or type of work or mechanic needed to execute the contract or project or work to be performed. A failure to post a prevailing wage rates required by this section is a violation of this act. (820 ILCS 130/4 from ch.48, par. 39s-4 sec. 4)

EMPLOYEE SAFETY AND HEALTH

Section 16. The undersigned shall comply with all applicable Laws and Regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Dealer's duties and responsibilities for the safety and protection of the work shall continue until such time as all the work is completed and accepted by the City.

A. Dealer shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work. Dealer shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to all employees on the work; all work, materials and equipment to be incorporated therein, whether in storage on or off site; and other property at the site or adjacent thereto in the course of construction.

Signed by: _____
[name]
[title]

Subscribed and sworn to before me this _____ day of _____,
20__, A.D.

By: _____
Notary Public

-seal-

EXHIBIT #1 – ELMHURST PRICE WORKSHEETS & Questionnaire

<u>ITEM</u>	<u>ITEM #</u>	<u>PURCHASE PRICE</u>
KELTRON DMP703 BASE SYSTEM and KELTRON RF7300 WIRELESS RADIO SYSTEM, and REMOTE OP703V AT DU-COMM	14a)	
Total for all <u>equipment</u> (turnkey solution) including all hardware. Base Proposal.		\$
<u>Labor and installation</u> (turn-key solution), of the above system at the headquarters police station. Base Proposal.		\$
Sub-Total	14a)	\$
ALTERNATE #1 – KELTRON OP703VP TO BE LOCATED AT ELMHURST FIRE STATION		
Total for all <u>equipment</u> (turnkey solution) including all hardware. Alternate #1		\$
<u>Labor and installation</u> (turn-key solution), of the above system at the Elmhurst Fire Station. Alternate #1.		\$
Sub-Total	14b)	\$
KELTRON RF774F WIRELESS RADIO COSTS – Subscriber Locations Radio Equipment Costs – Unit Cost		
UL Listed Transceiver.	14c)	\$
Antenna, 60-hr standby battery, transformer, separate battery box (if required), and misc. equipment.		\$
Labor cost. All installations shall be fully compliant with NFPA 70/2008 Edition/ NFPA 72/2007 Edition.		\$
Other (Identify on separate sheet).		\$
Sub-Total	14c)	\$

<u>ITEM</u>	<u>ITEM #</u>	<u>PURCHASE PRICE</u>
KELTRON RF774F WIRELESS RADIO COSTS – City – owned Locations Radio Equipment Costs – Unit Cost – Assumes 11 Radios –See Exhibit #3	14d)	
UL Listed Transceiver.		\$
Antenna, 60-hr standby battery, transformer, separate battery box (if required), and misc. equipment.		\$
Labor cost. All installations shall be fully compliant with NFPA 70/2008 Edition/ NFPA 72/2007 Edition.		\$
Other (Identify on separate sheet).		\$
Sub-Total	14d)	\$
Monthly Maintenance for Keltron Equipment – DMP703, RF7300 System, computer automation and all other system components located at the Elmhurst Police Headquarters station; and, remote at DU-COMM	14e)	
Per Month/Per Subscriber Location	14e)	\$
Monthly Maintenance for Remote OP703VP (Alternate #1)	14f)	
Per Month/Per Subscriber Location	14f)	\$
Monthly cost for radio maintenance at subscriber location – Includes labor, equipment, batteries, travel, etc. *Note 1 – see below	14g)	
Per Month/Per Subscriber Location	14g)	\$
Monthly cost for radio maintenance at installed City-owned facilities – Includes labor, equipment, batteries, travel, etc. (See Exhibit #3) *Note 1 – see below	14h)	
Per Month/Per Subscriber Location	14h)	\$
Keltron Spare Parts Package – (one-time charge)	14i)	
Parts Package	14i)	\$

Note *1 - Describe the extent of maintenance and service which **is included** in the “per month/subscriber location” above listed costs: _____

Describe those items or services **not included** in the “per month/subscriber location” above listed costs: _____

Item 14j) What, if any, will be the cost of the connection (excluding the radio itself) and any programming costs per each new subscriber connection to the network other than for existing connections.

\$ _____

Item 14k) List the non-standard installation costs (larger antennas, labor costs) when the provided radio antenna is insufficient to provide network connectivity.

Item 14l) Indicate the hourly service rate for Network equipment repairs or service calls above and beyond the monthly maintenance fee paid per radio.

Year (1) \$ _____

Year (2) \$ _____

Year (3) \$ _____

In the above fees, is travel time charged to and or from the site for services above and beyond covered services? If so, what will the standard travel time be for this proposal?

When calculating the time charged to perform services above and beyond covered services, how is the rate calculated (example: next full hour, 1/10th, ¼ , ½, etc.)?

14m) Please describe in detail the extent, and frequency, of the continuing maintenance that will be provided for:

a. The overall Network:

b. The head-end equipment and DU-COMM remote:

c. The remote equipment at the fire department:

d. The subscriber radios:

14n) List and explain any other fees, charges, license fees which may be applicable to your proposal:

QUESTIONNAIRE -

**CITY REQUIREMENTS/CONTRACT SPECIFICATIONS FOR DEALERS
(Sections B & C)**

1. Are you an authorized Keltron Wireless dealer in good standing?

Yes _____ No _____

2. Have you provided a letter from Keltron Corporation that you are one of their dealers in good standing?

Yes _____ No _____

3. Have you attended the Mandatory Pre-Proposal meeting?

Yes _____ No _____

4. Have you met all of the terms and conditions set forth by the City of Elmhurst regarding rules for providing bids and proposals?

Yes _____ No _____

5. Have you submitted a proposal based on the specifications and instructions within this RFP package?

Yes _____ No _____

6. Are you submitting any alternates (other than Alternate #1) to the specifications and instructed included in this proposal; and if so, is the alternate on a separate attached sheet identified as "Alternate-Proposal"?

Yes _____ No _____

7. Are you submitting Exhibit #2 with not less than two (2) references that will illustrate the Dealer's past knowledge and experience in the development and maintenance of a municipally-owned wireless alarm network?

Yes _____ No _____

8. Are you properly licensed by the State of Illinois Department of Professional Regulation as an alarm contractor; and, have you provided a copy of the requested license with the proposal?

Yes _____ No _____

9. Are you submitting the provided questionnaire and pricing sheets, or identically formatted reproductions, when providing your proposal?

Yes _____ No _____

10. Due you propose to use only new equipment?

Yes _____ No _____

11. Will you be providing the City of Elmhurst with the serial number (where provided by the manufacturer), or other assigned unique identifier, for each piece of equipment supplied to the City?

Yes _____ No _____

12. Will you be providing a tamper switch for each radio which indicates an off-normal condition (supervisory signal) at the PSAP when the radio's door is opened and which is self-restoring to normal (non-latching) when the door is secured in the closed position?

Yes _____ No _____

13. Will you be providing signage on each radio, and each battery box where provided, which states the following:

“Property of the City of Elmhurst-Access to the radio and associated equipment is limited to the City of Elmhurst and its authorized Dealer. All others subject to prosecution.”

Yes _____ No _____

14. Will you be providing the City with the radio cipher code which shall become the property of the City at the inception of the Network?

Yes _____ No _____

15. Will you be providing the City with all available and applicable warranties and guarantees as provided by the manufacturer; and, will you be extending the manufacturer's warranty to a period of 2 years?

Yes _____ No _____

16. Do you agree to work with the Elmhurst Fire Department in utilizing their existing radio frequency in the Network?

Yes _____ No _____

17. Will you be providing a single key system for all radios using the Keltron Private Labeling Program?

Yes _____ No _____

18. Will you be coordinating the installation of all required head-end equipment, including exterior antennas, with Mr. Panico of the Elmhurst Police Department?

Yes _____ No _____

19. Do you agree to meet the scheduled time perimeters as outlined in Section C, Item 10 subject to circumstances beyond the Dealer's control?

Yes _____ No _____

20. Do you agree to maintain such inventory of spare parts and spare subscriber premise equipment as to guarantee that all alarm monitoring equipment at the Elmhurst Police headquarters station, alternate equipment locations, and the radios installed at subscriber locations can be repaired within a reasonable period of time from the time the Dealer is notified of a failure?

Yes _____ No _____

21. Do you agree to, within 24 hours, advise the City, in writing, of any alarm that is unable to transmit its signals to the PSAP due to the radio alarm transmitter or Network?

Yes _____ No _____

22. Do you agree to provide the City with on-site service within 4 hours of a request from the City or DU-COMM? On-site service shall be provided 24 hours per day, 7 days per week, including holidays.

Yes _____ No _____

23. Do you agree to provide a turnkey wireless alarm monitoring network in accordance with the RFP and manufacturer's specifications and instructions?

Yes _____ No _____

24. Have you provided a detailed description of all services and equipment included as part of the maintenance program of head-end and remote equipment, and subscriber location radios?

Yes _____ No _____

25. Are you providing an alternate proposal, other than Alternate #1, and is that proposal attached?

Yes _____ No _____

26. Do you plan on providing training classes for the Elmhurst Fire Department and DU-COMM (see 10d.) noted above?

Yes _____ No _____

27. Have you factored into your proposal the cost of attending weekly Network status meetings with City representatives until the all existing direct connect and radio alarms are operating on the Network?

Yes _____ No _____

28. Have you attached a complete equipment list for the base proposal; and, separate list for Alternate #1 that shall also include any equipment that may be deleted from the base proposal if the alternate is accepted?

Yes _____ No _____

29. Does the Dealer agree not to affix any stickers or other items containing their company's name, address or phone number to the fire alarm control equipment within the protected premise; and does the Dealer agree not to solicit the owner or occupant of a building containing a radio that is a part of the Network for additional work related to the installation, testing or maintenance of the protected premise fire alarm system?

Yes _____ No _____

Name of Company _____

Address of Company _____

Phone Number _____

Contact Person _____

Signature

Date

EXHIBIT #2 - REFERENCES

**REFERENCES
(Relevant Project Experiences)**

#	Agency	Address	Contact	
1				
2				
3				
4				
5				
6				
7				

Dealer: _____

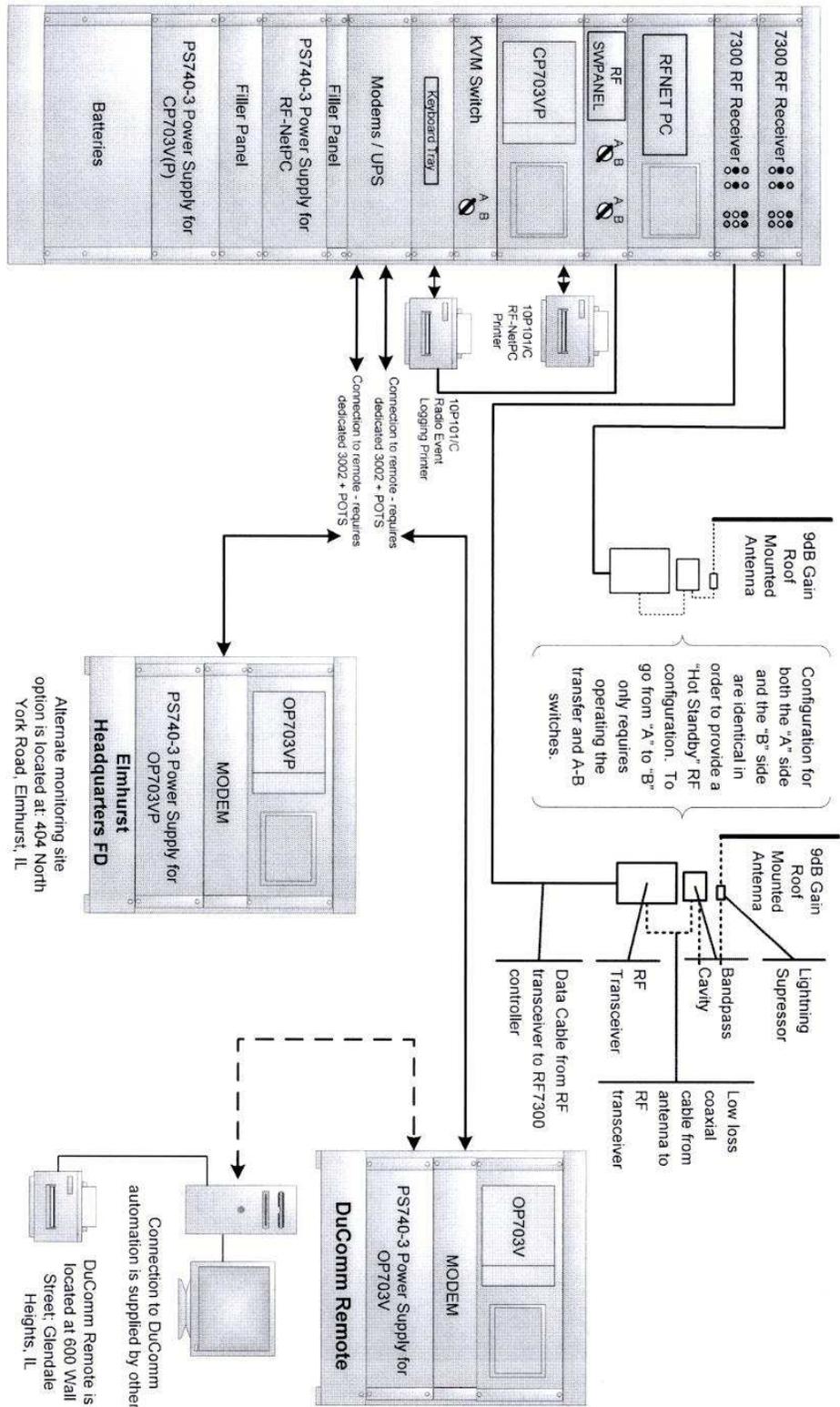
Name: _____

Date: _____

EXHIBIT #3 – CITY-OWNED BUILDINGS

<u>OCCUPANT</u>	<u>ADDRESS</u>
1. Library	125 Prospect
2. Fire Station #1	404 N. York St.
3. Fire Station #2	601 S. York St.
4. Training Tower	910 N. Addison
5. Public Works Garage	985 S. Riverside Dr.
6. City Hall	209 N. York St.
7. Treatment Plant	625 S. Rt. 83
8. Police Dept.	125 W. First St.
9. Historical Museum	120 E. Park St.
10. Historical Museum - Education Center	120 S. Robert Palmer Dr.
11. City owned building	180 W. Park St.

Exhibit #4



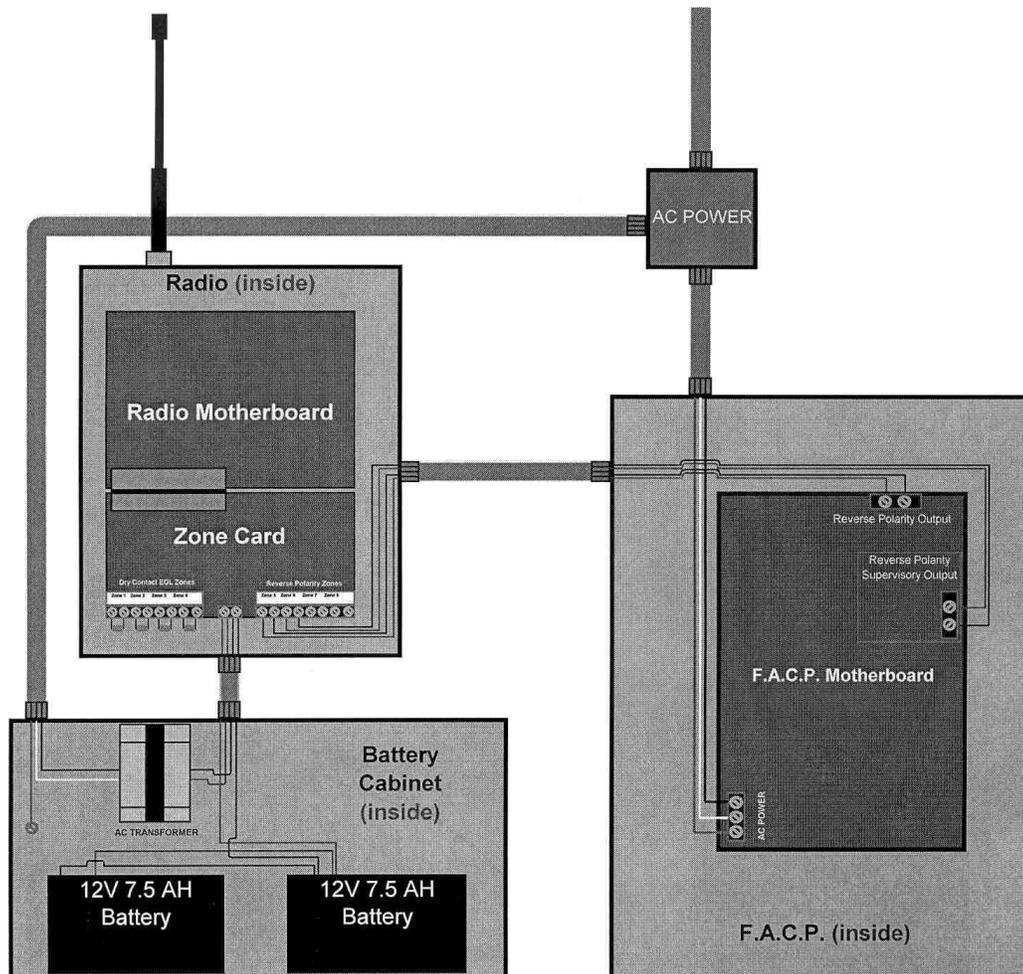
Elmhurst Radio Alarm Network
Head End is located at 125 E. First Street
Elmhurst, IL

NOTE: This diagram is for discussion only and may not reflect all items required for proper system operation, i.e. power supplies, power strips, UPS systems etc. Keltron will supply a detailed equipment list in appropriate bid specs. **ALSO** connection to DuComm requires special equipment which is not supplied by Keltron and is only provided by ADT

KELTRON
WWW.KELTRONCORP.COM
JUNE 2009 J Binninger

Exhibit #5

Keltron Radio Standard Installation



A. Operating power for the radio shall be from a dedicated fire alarm circuit. Power is permitted to be on the same circuit as the FACP, but may not be tapped from the inside of the FACP. NFAC NFPA 72 & NEC NFPA 70

B. The transformer is to be mounted in an enclosure and the power to the radio is required to be installed in conduit. The transformer may not be mounted within the FACP. NFAC NFPA 72 & NEC NFPA 70

C. The radio shall be furnished with 60 hours of battery standby. NFAC NFPA 72

D. Fire alarm and supervisory inputs for Remote Station Signaling are required to be reverse polarity. Fire alarm and trouble signals shall be input 5 of the radio, Supervisory signals shall be on input 6. NFAC NFPA 72 and UL 864