

AGENDA ITEM # 19January 13, 1998*Consider awarding, rejecting or extending bids for wrecker service for Sheriff's Department.

Assistant County Auditor Bob Space recommended awarding wrecker service for Sheriff's Department as follows:

Northwest - Jarrell Auto
 Northeast - Glass Auto
 Southwest - Cedar Park Wrecker

He advised the specifications had not been met by the bidders on the southeast side of Williamson County due to no facility location in the southeast quadrant of the county.

East and west is determined by Interstate 35 and north and south is determined by Highway 29.

Moved: Judge Doerfler

Seconded: Commissioner Boatright

Motion: To award Sheriff Office wrecker service bids as follows:

Northwest - Jarrell Auto at \$45.00 per haul
 Northeast - Glass Wrecker Service at \$45.00 per haul
 Southwest - Cedar Park Wrecker Service at \$37.50 per haul

Vote: Motion carried 3 - 0 with Commissioners Hays and Heiligenstein absent from the dais

AGENDA ITEM # 20January 13, 1998*Consider awarding, rejecting or extending bids for office furniture.

Assistant County Auditor Bob Space requested a delay on award until January 20, 1998.

Moved: Commissioner Mehevec

Seconded: Commissioner Boatright

Motion: To delay awarding bid for office furniture until January 20, 1998.

Vote: Motion carried 3 - 0 with Commissioners Hays and Heiligenstein absent from the dais

141AGENDA ITEM # 21January 13, 1998*Consider awarding, rejecting or extending proposal for paperless charting system for EMS.

EMS Director John Sneed advised the low bidder had been notified.

Moved: Commissioner Boatright

Seconded: Judge Doerfler

Motion: To award portable lap tops and software to Westec \$99,091.00 and the hardware to MicroAge for \$16,957.00.

Vote: Motion carried 3 - 0 with Commissioners Hays and Heiligenstein absent from the dais

< Clerk copy here >

WILLIAMSON COUNTY PROPOSAL FORM

The undersigned, by his/her signature, represents that he/she is authorized to bind the bidder to fully comply with the terms and conditions of the attached Bid Invitation, Specifications, and Special Provisions for the amount(s) shown on the accompanying bid sheet(s). By signing below, you have read the entire document and agreed to the terms therein.

NAME OF BIDDER: ZOLL MEDICAL CORPORATION

Mailing Address: 32 SECOND AVENUE

City: BURLINGTON State: MA Zip: 01803-4420

Telephone: (800) 348-9011 Fax: (617) 272-5549


Signature of Person Authorized to Sign Bid

Date of Bid: DECEMBER 16, 1997

Name and Title of Signer: BARRY PYLE, SOUTHWEST REGIONAL MANAGER
(Please Print or Type)

PLEASE COMPLETE THE FOLLOWING:

Prompt Payment Discount: % days. (If no discount is offered, Net 30 will apply.)

[] Bidding on "all or none" basis. (Will accept award of "all" items only. If left blank, low item will apply.)

* ☒ Bidding on low item basis. (Will accept award on "any or all" low bid items.) * (see below)

List Additional Limitations if applicable:

LAN items may not be purchased from ZOLL unless all awarded software items are also purchased from Zoll. Separate software purchases (without hardware purchase) will be allowed. The combined purchase of software and pen computers without the purchase of LAN items will also be allowed. Complimentary items will only be supplied if a minimum of all awarded software and pen computer items are purchased from ZOLL.

DO NOT SIGN OR SUBMIT THIS FORM
WITHOUT READING ENTIRE DOCUMENT

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December 15, 1997

Williamson County Auditor's Office
Third (3rd) floor, Suite 303
Williamson County Courthouse
710 Main St., Georgetown, Texas 78626

Subject: RFP PAPERLESS CHARTING SYSTEM FOR EMS (#98WC501)

Please find enclosed one original and two copies of ZOLL Medical Systems' response to Williamson County's Request for Proposal for a PAPERLESS CHARTING SYSTEM FOR EMS.

As requested, we have included the following information:

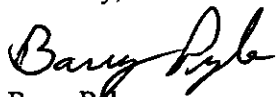
Signed Standard Proposal (page 3)
Reference List (page 15)
Response to Sections D and E (pages 3 - 38)
WESTECH's Official Quotation Pages (page 39 - 42)

In our response, we are offering the WESTECH EMS System, a comprehensive software package that collects and manages data in the pre-hospital environment at the point of patient care. This system is currently installed, or in the process of being installed, in over thirty client sites across North America. In addition to this paperless charting system, we are also responding to your request for supply, installation and support of integrated LAN hardware and software. This LAN component is being offered as an option in partnership with NETForce Technologies, Inc. NETForce is based in nearby Austin, and meets all of your Microsoft certification requirements as well as your on-site response requirements. We have bid this item to comply with your preference to purchase all items from one vendor. However, we are willing to provide all software items or software and pen computer items separately if you wish to purchase the LAN hardware items from another vendor. Unfortunately, we cannot offer any hardware item if the Software items are not purchased from ZOLL.

WESTECH Mobile Solutions, the developer of the paperless charting system, is a wholly owned subsidiary of ZOLL Medical Corporation.

Thank you for the opportunity to bid on providing a Paperless EMS Charting System to Williamson County. We look forward to hearing from you regarding your decision on our proposal. Please contact me, at (512) 388-0879, or Keith Lyon (WESTECH) at (800) 663-3699 if you have any questions or require additional information.

Sincerely,



Barry Pyle
Manager, Southwest Region

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INSERT STANDARD PROPOSAL PAGE

Appendix A ñ Hardware

Proposer Requirements

Proposer must have a minimum of 5 years demonstrable, professional experience and background in design, implementation and support of NT based local area networks.

NetForce is fully compliant, having several staff with experience levels ranging up to 13 years of networking experience

Proposer must have a minimum of 5 year demonstrable, professional experience and background in the implementation and support of pen based computers.

WESTECH is fully compliant (has been developing pen based solutions since 1989)

Proposer must be a Microsoft Solution Partner.

WESTECH is fully compliant (has been developing pen based solutions since 1989)

Proposer must be a Microsoft Solution Partner.

NetForce is fully compliant (registered on Microsoft Website)

The Proposer must have a minimum of three (3) Microsoft Certified Systems Engineers (MSCEs) on staff as full-time employees who are accessible to WCEMS. One MSCE will be assigned as the primary support engineer for WCEMS, other MSCEs will be utilized only when the primary support engineer is not available.

NetForce is fully compliant.

The Proposer must have contractual authority to sell, install and support all components of the proposed network hardware, network software, and hand-held computers.

NetForce fully complies with all Network requirements and WESTECH fully complies for all Hand-held computers and associated equipment.

The Proposer must be able to provide support contract for remote dial-up within 1 hour and on-site support within 1 day.

NetForce can provide dial-up support within one hour can easily be on site within 1 day.

The Proposer must be able to install and configure a twenty five (25) user Microsoft Windows NT 4.0 local area network (LAN), including server hardware and software, remote access system, and archival and retrieval system. On completion, all installed software and hardware components must operate as an integral part of the new network.

NetForce is fully capable.

The Proposer must be able to provide hand-held computers to run documentation system software that, at a minimum are: Pentium 120 MHz, 16 MG RAM upgradeable to 48 MB, 1.6 GB HDD upgradeable to 2.1 GB with transfective monochrome display. Units must also have the following peripherals available: 8 MB RAM flashcard modules, harsh environment cases, PCMCIA connectivity, 33.6 or greater baud cellular fax/modems with software, auto adapters, AC chargers, extra batteries, extra pen stylus; keyboards with IRDA port. The Fujitsu 1200 is the preferred model.

Fujitsu 1200is have been quoted. ZOLL is a Fujitsu VAR.

Local Area Network Specifications (see attached hardware pricing)

Server Specifications ñ Must be a Windows NT 4.0 approved server. Minimum specifications: 300 MHz Pentium Pro Tower, 64 MB RAM, dual 9 GB HDD with dual controller boards, 3 ñ 56K modems, 100 MB NIC with onboard processor, and Microsoft Windows NT 4.0 Server software, Microsoft Windows Exchange and Microsoft Office Professional for 25 (10 local and 25 remote) users preloaded for local users.

Firewall protection for remote access must be included.

Tape Back-up Unit ñ must be capable of backing up entire server at full capacity ñ 20 GB DLT external device with software (preloaded).

CD writer ñ internal or external device with software (preloaded).

CD tower ñ minimum 7 bays with 16X or greater drives and software (preloaded).

Network Interface Cards ñ (Qty. 10) 100 MB Ethernet cards without processors.

All manufacturers' original documentation must be submitted in both hardcopy format and softcopy format on 3.5" FD.

Each piece of equipment comes with complete printed and/or CD-ROM documentation. This information is not offered in electronic form with the exception of information that is made available by the respective manufacturer via their Web page on the Internet.

Proposer Requirements (see attached hardware pricing)

Quantity of 15 ñ Fujitsu 1200 pen based computers ñ 120 MHz Pentium, 16 MB RAM, 1.6 GB HDD, PCMCIA connectivity, 33.6 or greater baud fax/modem with software, IRDA port, keyboard, transfective monochrome display, 8 MB RAM Flashcard, tethered pen stylus, auto adapter, AC charger, extra battery and extra pen stylus.

Extra keyboards, pen styluses, auto adapters, AC chargers, batteries and harsh environment cases to be used for replacement should be quoted as options.

Microsoft Windows 95 preloaded on units.

Microsoft Windows Exchange for remote users.

Microsoft Windows Office 97

All manufacturers' original documentation must be submitted in both hardcopy format and softcopy format on 3.5" FD.

Installation Requirements

All software must be preloaded and verified prior to delivery.

Included in price

A MSCE must be on-site to assist with configuration and troubleshooting for 2 days. Additional days may be listed as optional on a per diem basis.

Included in price

All equipment and software must be Microsoft Windows NT 4.0 approved and certified. Proof of certification/approval is required.

All equipment will be linked using certified Category 5 wiring (pre-existing)

In order to insure functionality, a site survey of your cabling plant will need to be conducted prior to the installation of any network equipment. This is a billable engagement. NetForce Technologies, Inc cannot be held responsible for any defects in existing cabling that may hinder network performance.

Training Requirements

A MSCE will assist with Administrator training as needed during the 2 days on-site. The administrator will have received training in Microsoft Windows NT 4.0 approved and certified. Proof of certification/approval is required.

Included in pricing

Any additional training deemed necessary but not specified such as for Microsoft Windows Exchange or others may be shown as optional.

A per diem rate for additional tasks has been supplied

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Support Requirements

Direct Phone support hours must be at a minimum 8:00 CST to 5:00 CST, Monday through Friday excluding holidays. A call person must be available 24 hours per day, 7 days per week for emergency use only.

Maintenance fees must include complimentary upgrades to new releases of the licensed product.

Included in price for all WESTECH licenses. Microsoft licenses not included.

Support must be available through a minimum of 3 full-time MSCEs. A primary support engineer must be available to WCEMS and designated in writing. Other MSCEs can assist when better trained with a particular problem or when the primary support engineer is unavailable. All MSCEs assigned to the WCEMS account must be fully aware of the design, implementation and critical nature of this installation.

NetForce fully complies

The term of this support is 1 year from system acceptance. An additional annual support rate for the following year must be quoted.

Included

WCEMS is considering training an MSCE on staff. If this were done, the training would be complete prior to the end of the first 6 months of the 1-year maintenance agreement. The contact made with the Proposer's MSCE would be done by the WCEMS MSCE unless indisposed (such as vacation, sickness, family emergency etc.). In those instances, two other contacts would be defined. As this should minimize unnecessary use of the Proposer's MSCE, a discount to the proposed support pricing must be shown if this option is used.

Negotiable

Acceptance Criteria

Proposer must complete all diagnostic tests suggested or required by the manufacturer to certify that the computers, software and peripherals are fully operational.

Included in pricing.

Proposer must install all software on the system, configure it to the system and verify operation on the peripherals and software that will actually be used for the system.

Included in pricing

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System description and layout. Two (2) hard copies and one (1) Microsoft Windows Word or ASCII format 3.5: diskette copy per participating agency of a non-technical description of hardware and software for management orientation. It will include a graphical depiction of the total system layout with system component interaction.

Included

All installation costs must be included in the proposal price.

Included

Technical Information Questionnaire to Proposer

Describe your technical architecture (with version numbers) including all database management system(s), programming languages, operating systems, executing environment, terminal emulation, user interface and network connectivity (LAN and WAN). Provide a proposed configuration for Williamson County EMS and a diagram showing data flow within the configuration. Identify proprietary components.

The WESTECH EMS System consists of the field software used for data collection in the field and the back end ASM is used for data manipulation and reporting.

Field Software

The field software is written in C (version 8.0) using PenRight! Pro (version 3.62) for the development environment. The database is FoxPro (version 2.0) and Codebase (version 5.0) is used to access the database. The operating system required is MS DOS (version 6.2 or later). This application may also run in a DOS box under Windows 3.11 or Windows 95. The application is at home on a pen computer but may also execute on a desktop computer using a keyboard and mouse.

ASM

The ASM components are written using Microsoft Access (version 2.0). All ASM components attach to the FoxPro databases. Some components of the ASM are written in C for purposes of speed and efficiency. The ASM will operate under Windows 3.11, Windows 95 and under Windows NT with minor limitations (Please contact WESTECH for further details).

Proposed Configuration

WESTECH recommend the following configuration at Williamson County EMS:

- 15 Mobile Unit computers with dial-in access
- 10 Data Entry Workstations (DEWS) with field software and access to Management Reports and ad-hoc querying
- 1 Master ASM database (on the network File Server)
- 1 Master ASM workstation
- 1 File Transfer workstation (available 24 hours)

Describe the provisions in your architecture to provide high availability of the system and to mitigate the risk of component failure (i.e. redundancy, fault tolerance, disk mirroring, database change control, etc.). Describe the recommended recovery strategy in the event of a failure.

We have configured the server with a RAID Array Controller capable of supporting up to seven (7) pluggable fixed disk drives. The three that are specified are the minimum that RAID 5 supports. The system administrator can be notified via console message of pre-failure conditions (too many bad sectors, etc.) and drives can be replaced on the fly without downing the server.

There are many additional redundant options that can be configured on the server such as redundant power supplies, remote management options, network controllers, etc.

The tape backup software suite we have recommended includes a disaster recovery option that greatly simplifies the procedure that is involved in rebuilding a new disk drive with an original network image. It significantly reduces the amount of time involved in carrying these procedures out.

There are a multitude of fault tolerant schemes available to you, too numerous to list here. We are available to discuss the level of fault tolerance that is right for your computing environment and the costs associated with it.

Describe any routine downtime your system requires to perform such functions as back-ups, batch processing or any other user-access limitations. Describe your uptime guarantee and/or downtime warranty.

The manufacturer of the respective piece of equipment provides warranties their products. In the case of Compaq servers, there is a guaranteed two-business day turn around time. As an Authorized Compaq Service Center, it is our intent to not only provide the parts and labor for all machines we recommend and sell, but to respond in a single business day. Parts, if required, are typically available the following business day.

We have included pricing for our Preferred Service Program which you can use for blanket network services which go up and above the manufacturer's warranty. These services include your operating system, application and utility software. There are many scenarios that replacing a single part does not constitute returning a network to full functionality. We offer turnkey network services to return your network to its original condition and keep it that way.

Is any portion/application of your system written/developed by a third party? If so, what applications? What agreements are in place for support, upgrades and enhancements? Provide copies of the appropriate agreements showing authorization to sale, support, upgrade and enhance those systems or applications.

Harlingen EMS

Contact: Leonard Callier

Deputy Director

Harlingen Community Emergency Care Foundation, Inc.
2733 South Sunshine Strip
Harlingen, Texas 78550

Phone: (210) 428-3087

Broward County/Pompano Beach Fire Rescue

Contact: George Minnich

Division Commander

Pompano Beach Fire Rescue
180 South West 3rd Street
Pompano Beach, FL 33060

Phone: (305) 786-4310

Spartanburg Emergency Medical Service

Contact: Mr. Lewis Moore

Coordinator

Spartanburg Emergency Medical Service
451 E. St. John St.
Spartanburg, SC 29302

Phone: (864) 560-6829

AMR WestContact: Mr. Tony Fernandez
AMR West

41300 Christy Street
Fremont, CA 94538

Phone: (510) 657-9999

Magic Valley Regional Medical Center

Contact: Scott Rairigh

Magic Valley Regional Medical Center
650 Addison Ave West
Twin Falls, ID 88303

Phone: (208) 737-2805

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Cypress Creek EMS

Contact: Mr. Allen Simms

Cypress Creek EMS
1665 Sugar Pine Lane

Houston, TX 77090

Phone: (281) 440-9650

Florida Regional EMS

Contact: Mary Scott

Florida Regional EMS

2900 Kurt Street

Eustis, FL 32726

Phone: (352) 383-2173

The software must fully utilize an industry standard VGA screen (640x480).

Fully compliant

The software must collect patient and call information at the point of service on a hand-held pen-computer.

Fully compliant

The software must consolidate all patients and call information for the organization into a central repository under the control of an administrator.

Fully compliant

The software must improve the accuracy and completeness of data through field capture.

Through the use of pick lists the accuracy of the information collected by paramedics is improved. The WESTECH EMS System also provides "Close Call Rules" which allow an administrator to setup specific rules that must pass before a call may be closed. The rules are based on individual fields and may be set up to reference other fields in the system. This close call logic provides administrator-defined rules to ensure data is complete before a call may be closed. Rules such as ensuring fields are entered, ensuring fields are entered when other fields contain values and range checking are available to the administrator.

The software must provide picklists and check-boxes wherever possible to minimize the need for pen handwriting recognition while still allowing use of pen recognition for input of non-listed items.

Fully compliant

The software must provide user defined field labels to allow customization of the software to suit a client's unique operating environment.

The WESTECH EMS System provides some user defined labels.

The software must provide the ability to access a pop-up electronic keyboard on all fields with the tap of a single button.

The WESTECH EMS System provides the ability to access a pop up or virtual keyboards with the tap of a single button.

The software must provide a screen that displays a complete summary of the call and which displays all information entered for the call at a glance. The user must be able to double-tap on any information displayed to be taken to the data entry screen that supports the information.

The system provides a screen that displays a complete summary of the call. This screen is called the CALL SUMMARY SCREEN and displays all information entered for the call at a glance. The user can double-tap on any information displayed and be taken to the data entry screen that supports the information.

The summary screen must be completely user defined to allow any information to be included or excluded, to allow the user to indicate if a not-entered message displays for specific missing information, and to set the order of information that appears.

The CALL SUMMARY SCREEN is completely user-definable and allows any information to be included or excluded and the administrator can determine in what order information is shown. Using WESTECH's close call logic the user can also indicate if a not-entered message should display for specific missing information and in what order this information is presented.

Every screen must have a tool-bar to jump from the current screen to any other screen in the application with a single pen tap.

Each screen, except for the Initial Response Screen, has a tool-bar to jump from the current screen to any other screen with a maximum of two pen taps.

The tool-bar must be completely user defined to allow different text on the buttons, determination of order of buttons, and the ability to disable buttons.

The tool-bar is completely user-definable. The user has the flexibility to determine what text is displayed, the order of the buttons and the ability to disable buttons.

The software must have the ability to display any screen outside of the current screen with a maximum of two pen taps.

Fully compliant

The software must provide easy and fast access to the desired item in a long list of items via key-tap or alpha entry.

Fully compliant

The software must provide the ability to easily enter, via pen entry, alternative selections on the same screen when none of the items on a list are appropriate. The administrator must be able to disable this functionality for any specific pick list.

Fully compliant

The software must be able to easily handle multiple patients per call, multiple calls per shift and the ability to easily switch between any existing call or patient.

Fully compliant

The software must allow the ability to easily copy patient, billing and patient history information from any previous call.

Fully compliant

Crew sign-on information including information such as crew names, crew identification numbers, vehicle numbers, unit numbers, shift information and region must carry through all reports entered. The software should allow the user to change this information for one or all calls documented by that crew.

Fully compliant

The software must capture and print crew signatures.

Fully compliant

The software must capture acceptance and refusal signatures for treatment, transport, billing and receiving hospitals. All signature screens must utilize user-defined text and have the ability to display the text in multiple languages.

Fully compliant

The software must be able to capture several other user defined signatures complete with user defined text in multiple languages.

Fully compliant

The software must be able to print a copy of a run report at any time and denote it as incomplete if appropriate.

The software allows a user to print a run report at any time. The administrator has the ability to denote if the call is complete or incomplete using the users preferred terminology.

The user must be able to close a run report at which time no further changes may be made, by the user or by the administrator. An addendum process must be available with appropriate audit trails created and printable.

Fully compliant

The software must be able to FAX (by landline and cellular phone) a copy of a run report at any time from within the data entry software.

Fully compliant

The software must be table driven. This means selections from lists (medications, diagnoses, procedures, etc.) are user-defined and maintained. Certain fields must provide the ability to default values.

Fully compliant

The software must provide error checking and data validation in the field.

Fully compliant

The software must provide administrator define rules which ensure data is complete before a call may be closed. Rules such as ensuring fields are entered, ensuring fields are entered when other fields contain values and range checking must be available for the administrator.

Fully compliant. Close call logic in the WESTECH EMS System provides administrator-defined rules to ensure data is complete before a call may be closed. Rules such as ensuring fields are entered, ensuring fields are entered when other fields contain values and range checking are available to the administrator.

If interventions, vital signs, IV/IOs and documentation of base contact are deleted or modified, the software must save the original record.

Fully compliant

The software must transfer patient information from the field computer to the administration computer and code table data and software updates from the administration computer to the field computer.

Fully compliant

The software must transfer this information by direct serial cable, landline modem, cellular modem, or by LAN or WAN.

Fully compliant

Data transfer, once initiated on the field compute and on the administration computer, must happen automatically.

Fully compliant

The software must have complete ñroll backí/roll forwardí functionality to automatically handle communication interruptions.

Fully compliant

The software must provide complete logging of all data transfer activities.

Fully compliant

The software must provide the ability to use a centralized multi-line modem pool for data transfer. This allows several (minimum 6) field computers to dial in and send information simultaneously.

Fully compliant

The software must have a radio option, which allows CAD information to flow to and from the field computers via private or public packet data networks.

Fully compliant. WESTECH provides a comprehensive radio option which allows use of several different connectivity options (private frequencies, CDPD, Ardis, RAM, PCS, etc.)

The software must provide electronic interfaces to invasive and/or non-invasive medical devices such as 12-lead cardiography, blood pressure monitors or other equipment.

The WESTECH EMS System currently provides electronic interfaces to ZOLLís System 12 and Propaq Pulse Oximeter. Other interfaces are available upon request. Please contact WESTECH/ZOLL for a quote.

The software should provide help for every field and the user should be taken to the appropriate screen in the software.

Fully compliant

The software must allow an administrator to easily maintain supporting lists for the data elements.

Fully compliant

The software must provide database maintenance functions including backup facilities and re-indexing.

Fully compliant

The software must provide the ability to perform ad-hoc reporting.

Fully compliant

The software must provide the ability to publish copies of the database.

Fully compliant

The software must provide the ability to easily maintain all code and system tables.

Fully compliant

The software must provide the ability to easily query for and batch print several run reports.

Fully compliant

The software must provide the ability to FAX any of report from the administration computer.

Fully compliant

Installation Requirements

All software must be loaded and verified at delivery.

All software and hardware will be drop shipped to the customer. A representative from WESTECH Mobile Solutions will be on-site to assist with installation of the WESTECH EMS System.

A manufacturer representative must be on-site to assist with configuration and troubleshooting for 2 days after the completion of the software installation. Additional days may be listed as optional on a per diem basis.

Fully compliant

All software must be Microsoft Windows(NT 4.0 compatible. Proof of compatibility may be required.

Current software fully supports a Windows 95 environment. Some minor workarounds necessary when doing file transfers in a NT environment but these are transparent to the customer. Release 3.0 will be fully NT compliant.

Training Requirements

The proposer must provide initial "Train the Trainer" type training for 1 day on site during the installation phase.

WESTECH provides 2 days on-site "Train the Trainer" type training once the customer's mobile units have been delivered.

Support Requirements

Direct Phone support hours must be at a minimum 8:00 CST to 5:00 CST, Monday through Friday excluding statutory holidays. A call person must be available 24 hours per day, 7 days per week for emergency use only.

During your initial start-up period (approximately 1 month), ZOLL will make their support staff available to you on a 7 day, 24 hour emergency call basis. If you wish to continue this service beyond this period, it can be continued for a fee of \$100/month. (Our experience to date is that our current support hours and problem resolution times provide more than adequate support to our "round-the clock" clients.)

Support for your project is included for the first 1 year following administration station training. During this time, the following services are provided:

Unlimited use of our 1-800 EMS product support line.

Complimentary upgrades to new releases (new releases are typically released once every 8 or 9 months).

Access to WESTECH's electronic bulletin board for product information, technical bulletins, etc.

The help-line hours are between 7:00 am and 7:00 PM Central Time, Monday through Friday, excluding only the following statutory holidays:

Patient Transfer

System captures transport arrive and depart time as well as transporting company, unit and transport type.

Base Contact

System collects information when a medical base is contacted. Hospital, method of contact, base notified, orders given or changed, who contacted, and tape and contact numbers must be collected.

Crew Information

System collects administrator-defined information on the crew such as region, station, shift, highest unit qualification, vehicle number and employee name, number and signatures for up to five employees. Crewmember signatures must be captured for printing on subsequent patient reports. Shift start time and date must also be captured. The user must be able to modify crew information for one or all calls entered by the crew.

Describe and diagram how and to what extent the system's databases (master files and table/control files) are integrated and shared between application modules. Does the system maintain an integrated database for all of the modules?

The WESTECH EMS System maintains a centralized integrated database known as the Master Administration Station Manager (Master ASM). This database supports all modules of the ASM software. The following documentation describes each of the ASM modules:

What is the ASM Software?

The Administration Station Manager (ASM) software is a control center of the Westech EMS System. It allows you to customize the behavior of the Mobile Unit software; move patient calls from one station to another; make corrections to data; and report on the data. It is also where you define the data collection hierarchy of your organization to the Westech System, a procedure that will require a thorough analysis of existing procedures and infrastructure.

EMS Database Component

This is comprised of all the database files or tables in the Westech EMS System. It includes all the system and code tables which define the EMS Mobile Unit software's selection lists which are used to capture your call data. In addition, the Westech EMS Mobile Unit System software is contained in this component.

ASM Software Components

The ASM software performs many functions, and for this reason, it is broken down into the following components:

Setup Facility

Facility to setup the Westech EMS System on each desktop computer. Settings include transfer (station) node ID, main menu picture, file transfer settings, modem initialization strings, and required directory paths.

Common Tables Facility

The CTF is where the code and system tables are customized. The values in these tables will have a dramatic affect on the appearance and the behavior of the EMS Mobile Unit software. The CTF is also used to install and customize mobile unit configurations, and define file transfer (station) nodes, communication methods and stations with which to communicate.

File Transfer Facility

This module controls the movement of data between all the desktop computers in the Westech EMS System, as defined by your agency. This movement of data can be via direct cable connection, modem or Local Area Network (LAN).

Append Facility

Facility to perform appending (adding) of call data received from another computer to the current desktop computer. In the Westech EMS System, all collected data is moved to an ASM desktop computer. There are two steps in the process of moving data between two computers using the Westech EMS System. The first is the actual movement, which is accomplished by the File Transfer Facility. The second is the merging of the new data with any existing data on the ASM computer, which is accomplished by the Append Facility.

(Describe your approach to developing, implementing and upgrading system components, including upgrade pathways, timeline, and distribution methods.

Development Approach

WESTECH uses industry standard methodologies in the design, construction and testing phases of software development. The following tools ensure a robust and efficient development environment:

Programmer's Workbench

Source Code Version Control Management

Computer Aided Data Modeling and Change Control

Unit Testing

Issue Resolution

Code Re-use

System Testing
 Beta Testing
 Pre-Release Program
 Product Staging
 Installation Diskettes
 Trouble Shooter's Guide Documentation
 User's Guide Documentation

Implementation Approach

Implementing the WESTECH EMS System is a significant undertaking. Fortunately, WESTECH will provide you with an Account Manager to provide training, telephone support and someone who has seen it all before. The WESTECH Account Manager will ease the implementation. Typically, the following steps will be taken in implementing the WESTECH EMS System:

Purchase order submitted by customer
 Confirmation/assignment of customer Project Manager
 Assignment and Introduction of WESTECH Account Manager
 Order pen computers and equipment
 Pen computers and equipment delivered
 Software packaged and delivered
 Ensure ASM hardware is ready to receive software
 Initial discussions and information review
 Administration Station Manager (ASM) training and setup
 Table setup and EMS software configuration
 Implementation issues discussion and resolution
 Table review
 Custom software development
 Custom software delivery
 'Train the Trainer'
 Crew Training
 Install supporting hardware (printers, docking stations, etc.)
 Pilot (Dual Charting)
 Revise tables as necessary
 Work out final implementation issues
 Go LIVE!

These steps can be achieved in as little as two months. Typically, our customers take anywhere from three to six months go live. WESTECH can provide a document (The Project Manager's Implementation Guide) which reviews all of these steps in detail.

Upgrading System Components

The WESTECH EMS System is currently at version 2.7B. Typically, WESTECH will provide a major release of software on an annual basis (i.e. 2.4, 2.5, 2.6, 2.7 etc.). Interim releases (i.e. 2.7A, 2.7B, etc.) appear between major releases. All customers on the maintenance program will receive all upgrades for free. Interim releases will address software bugs or custom development modules for specific clients. All upgrades are compatible with the previous version of software. This allows any customer to upgrade to the latest version of the WESTECH EMS Software. All software upgrades are available on the WESTECH electronic BBS or via the WESTECH World Wide Web site ([HYPERLINK http://WWW.WESTECHMobile.com](http://WWW.WESTECHMobile.com))

WWW.WESTECHMobile.com) . On request, WESTECH will mail software updates. All software upgrades come with complete installation diskettes and complete documentation.

Describe how referential integrity is achieved among the tables and databases of your software.

The WESTECH EMS System field software maintains referential integrity of the database. During data entry, all database rules are adhered to.

Describe any limitations regarding record modification in the event a patient care record is started and then temporarily closed prior to completion.

The WESTECH EMS Software allows active and closed calls. When attempting to close a call, the system will perform QA/QI rules (set up by the administrator) on the call before allowing the call to close. For example, if the last name is captured, then the date of birth is required. Or if the outcome of the call is refuse treatment, then a signature is required. These are called "Close Call Rules". Once all rules pass, the call may be closed. Once a call has been closed in the field, it may not be re-opened until after it has been sent the Administration Station Manager (ASM). If a paramedic needs to add information to a closed call, he may do so using the addendum screen.

Describe the record locking process utilized by your software after the user permanently closes the record. Describe the change control procedures and audit trails generated for addenda.

When a call is closed using the Mobile Unit field software, no further modifications may be made to the call. However, addendum information may be added (in a narrative style) on the Mobile Unit computer at which time the user name is documented. The Call Maintenance Facility is available on the Administration Station Manager (ASM) which allows an administrator (password protected) to add further addendum items, change incident numbers, re-open calls, close calls and delete calls. All activities in the Call Maintenance Facility are logged indicating the action, date, time and user id. All addenda and calls that are re-opened on the ASM are tracked with a user id, date and time. All addenda is printed on the WESTECH run reports.

Describe the process(s) for end-users to create custom reports. Is another software program required to create custom reports? If so, what is the software required? Provide copies of the

appropriate agreements showing authorization to sell, support, upgrade and enhance that application.

The WESTECH EMS System uses FoxPro databases. There are many tools that are available for custom report creation. WESTECH recommends either Crystal Reports (version 5.0) or Microsoft Access for custom report creation. Using either tool, an end-user may select tables and fields, perform table joins and obtain statistical information on all of the data that is stored in the WESTECH EMS System database. WESTECH recommends that all end-users attend a local training seminar on the report writing tool in order to be proficient with the product. To aid the end-user when creating custom reports, WESTECH supplies a complete data dictionary that fully documents all data elements in the WESTECH database. In addition, our technical support professionals are available to answer any questions that you may have about the WESTECH database.

Describe your technical software architecture (with version numbers) including all database management system(s), programming languages, operating systems, execution environment, terminal emulation, user interface and network connectivity (LAN and WAN). Provide a proposed configuration for Williamson County EMS and a diagram showing data flow within the configuration. Identify proprietary components.

The WESTECH EMS System consists of the field software used for data collection in the field and the back end ASM is used for data manipulation and reporting.

Field Software

The field software is written in C (version 8.0) using PenRight! Pro (version 3.62) for the development environment. The database is FoxPro (version 2.0) and Codebase (version 5.0) is used to access the database. The operating system required is MS DOS (version 6.2 or later). This application may also run in a DOS box under Windows 3.11 or Windows 95. The application is at home on a pen computer but may also execute on a desktop computer using a keyboard and mouse.

ASM

The ASM components are written using Microsoft Access (version 2.0). All ASM components attach to the FoxPro databases. Some components of the ASM are written in C for purposes of speed and efficiency. The ASM will operate under Windows 3.11, Windows 95 and under Windows NT with minor limitations (Please contact WESTECH for further details).

Proposed Configuration

WESTECH recommends the following configuration at Williamson County EMS:

15 Mobile Unit computers with dial-in access

10 Data Entry Workstations (DEWS) with field software and access to Management Reports and ad-hoc querying

- 1 Master ASM database (on the network File Server)
- 1 Master ASM workstation
- 1 File Transfer workstation (available 24 hours)

Describe the provisions in your software architecture to provide high availability of the system and to mitigate the risk of component failure (i.e. redundancy, fault tolerance, disk mirroring, etc.)
Describe the recommended recovery strategy in the event of a failure of the software.

There are four areas within the WESTECH EMS System (as with any system) that have potential for data loss or data corruption. They are the mobile unit computers, the ASM database, the File Transfer, and the Append. WESTECH has performed many steps to minimize these risks.

Mobile Unit Computers

WESTECH recommends the use of rugged computers (with harsh environment cases) to ensure that the field computers will continue to work for a long time. To minimize hard-drive failure, WESTECH recommends the use of Flash Memory cards which have no moving parts. WESTECH saves all data entered on a per screen basis which ensures that all data is saved to the disk (or flash card) with each screen.

ASM Database

The ASM database is susceptible to hard-drive failure just as any other database is on a Windows NT server. At a minimum, WESTECH recommends nightly backups to be performed on this data. Other options including disk mirroring or a disk RAID may be implemented. Please contact WESTECH for more details on these types of options.

File Transfer

The file transfer process involves moving patient information from one computer to another. The WESTECH File Transfer facility provides a robust and fault tolerant file transfer protocol to ensure that all of the patient information is transferred successfully. Each file transfer is treated as a transaction, which must complete successfully or not at all. Any malfunction (i.e. power failure or cable disconnection) will cause the file transfer facility to roll back. Patient information will not be lost. All steps of the File Transfer Facility are logged in detail to aid in troubleshooting.

Append

The append process involves appending the patient information from each Mobile Unit computer and Data Entry Workstation (DEWS). Like the file transfer, the append facility is robust and fault tolerant. Each append is treated as a transaction which must complete successfully or not at all. Any malfunction (i.e. power failure or corrupt data) will cause the File Transfer Facility to roll back. Patient information will not be lost. All steps of the Append Facility are logged in detail to aid in troubleshooting.

Failure Recovery Strategy

We have also developed an outstanding reputation for product innovation and support. Much of our innovation comes from suggestions from our customers. This combined with a commitment to continual Research and Development into promising new technologies has allowed us to develop the fastest, most reliable and by far most functional product in the industry. Such innovations have allowed us to offer medical device interfaces, superior pen recognition, extensive radio integration and many time saving features that allows the fastest input of any mobile EMS system available. Our support is also second to none. Not only do we have 3 full-time staff in our Burlington office answering our 1-800 lines, we also have back-up staff in Vancouver (9 development and support staff). This work force allows us to give you prompt response to all your calls from 8:00AM Eastern Time to 5:00PM Pacific Time (7:00 AM to 7:00 PM Central time). WESTECH is constantly receiving accolades for the high level of support we provide. We encourage you to contact our customers (see reference list) to hear this first-hand) for yourself.

Appendix C ñ NetForce Overview

NetForce is a local company that WESTECH has chosen as their partner to allow us to provide Williamson County with a complete, integrated solution through WESTECH as the prime contractor. WESTECH will act as project manager and coordinate all activities and will guarantee the quality and completeness of all work performed.

We chose NetForce because it is a reputable local supplier (located less than 30 minutes from your offices) who can meet ALL of your Microsoft certification requirements.

Appendix D ñ Pricing Pages

Insert Hardware Pricing Pages

Insert Software Pricing Page

ZOLL MedicalC Corporation Proposal for Paperless Charting for EMS

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32 Second Avenue, Burlington, MA :01803-4420 (Telephone: (800) 348-9011 FAX: (617:)272-5457

ZOLL MedicalC Corporation

32 Second Avenue, Burlington, MA :01803-4420 (Telephone: (800) 348-9011 FAX: (617:)272-5457

LAN Items

Qty.	Description	Price
135 hours	Network Technical Services Includes: Assembly, configuration and testing hours	\$ 16,335.00
1	Microsoft Windows NT Server v.4.0/10 Client Access License Operating system on CD-ROM Media with Documentation.	\$ 1,303.50
15	Microsoft Windows NT Server v.4.0/15 Client Access License Packs	\$ 660.00
2	Cheyenne ArcServe for Windows NT Server Required for operation of DLT tape backup system installed in rack.	\$ 2,387.00
2	Cheyenne InocuLAN for Windows NT Server	\$ 1,518.00
1	Cheyenne InocuLAN for Windows NT Server Clients Continuous virus protection for network workstation disk(s).	\$ 1,721.50
1	Cheyenne InocuLAN Client for Exchange Server	\$ 830.50
1	Cheyenne Disaster Recovery Option	\$ 423.50
1	Microsoft Exchange Server v.5.0 Includes ten (10) Client Access Licenses	\$ 1,578.50
15	Microsoft Exchange Server Client Access Licenses	\$ 19,222.50
1	Microsoft Office 97 Professional / CD-ROM Media We are recommending one (1) full copy of Office 97 Professional with media and documentation and twenty four (24) copies of license packs for additional local and remote users.	\$ 698.50
24	Microsoft Office 97 Professional / Additional License Only	\$ 15,444.00
1	Compaq Rackmount DLT 15/30 Tape Drive Includes tape drive mounted in Compaq External Rackmount SCSI Storage Expander Chassis. This unit mounts in Compaq 42U Rack listed under Network File Server section. Requires Cheyenne ArcServe for Windows NT listed in Network Application Software section.	\$ 4,636.50
3	Compaq DLT Tape Cartridges/7 Pack	\$ 1,270.50
3	Compaq DLT Tape Cleaning Cartridges	\$ 214.50
3	Compaq DLT Tape Cleaning Cartridges	\$ 214.50
1	Shiva LANrover/E Plus w/4 v.34 Internal Modems and Software	\$ 4,240.50
1	Microtest CD-ROM Tower/7 Internal CD-ROM Drives Includes Ethernet interface (10Base-T), seven (7) 16x CD-ROM drives, tower enclosure and user software.	\$ 4,240.50
1	Compaq PD-CD Internal CD-ROM This drive can be installed in workstation of your choosing. Provides both standard CD-ROM read capability as well as write capability. Please specify the exact number of drives that will be required (if more than one).	\$ 566.50

Official Quotation
Hardware Pricing

LAN Items Continued

Qty.	Description	Price												
1	Compaq 42U Rack Unit Includes all hardware for mounting of two (2) Compaq ProLiant rackmount file servers, keyboard, monitor, UPS , tape drive and keyboard/monitor switch. Note: Compaq 42U rack enables you to save space by installing equipment for your new data center in a ten (10) square foot area. The ProLiant 3000R server will provide your users with basic network application software, data storage and print services. The ProLiant 850R will function solely as a Microsoft Exchange server for electronic mail functions.	\$ 4,444.00												
1	American Power Conversion SmartUPS 2200R Includes all hardware and software (PowerChute + for Windows NT Server) for automatic, unattended shutdown and reboot of Compaq File Server in the event of power failure. Important note! This UPS requires a NEMA 5-20P type outlet. If not all ready present in computer room, this will need to be installed by a certified electrician prior to installation of UPS.	\$ 1,776.50												
1	American Power Conversion ShareUPS Module Allows SsmartUPS 2200R to be shared by both Compaq ProLiant servers listed below.	\$ 313.50												
1	Compaq ProLiant 3000R 6/300X Model 1 including: Intel Pentium II 300 MHz Processor (Supports up to two), 256MB RAM Memory, Compaq 1.44MB 3.5" Diskette Drive, Compaq Internal 16x CD-ROM Drive, (3) Compaq 9.1GB Pluggable Fixed Disk Drives, Compaq SMART SCSI/SLDisk Array Controller (RAID-5 configuration), Compaq Integral Netelligent 10/100 Ethernet Adapter, Compaq V50 15" SVGA Color Display, Compaq Rackmount Internal Trackball Keyboard,	\$ 15,570.50												
1	Compaq ProLiant 850R 6/200 Model 1H including: Intel Pentium Pro 200 MHz Processor, 128MB RAM Memory, Compaq 1.44MB 3.5" Diskette Drive, Compaq Internal Tray Load CD-ROM Drive, (2) Compaq 9.1GB Fixed Disk Drives, Compaq Ultra Wide SCSI PCI Disk Controller (Duplex), Compaq Integral Netelligent 10/100 Ethernet Adapter, FlexPort 42 Serial Board	\$ 9,696.50												
1	Preferred Support Plan <i>All services are billed on a time and materials basis. The PREFERRED SUPPORT PLAN provides ongoing service at a discounted rate. This provides the flexibility to use the appropriate level of support during the course of this project. The discounted hourly service rates for this plan are:</i> <table><tr><td>Project Manager</td><td>\$ 125</td></tr><tr><td>Advanced Network Engineer</td><td>\$ 105</td></tr><tr><td>Senior Network Engineer</td><td>\$ 100</td></tr><tr><td>Associate Network Engineer</td><td>\$ 90</td></tr><tr><td>Hardware Specialist</td><td>\$ 75</td></tr><tr><td>Applicaton Developer</td><td>\$ 105</td></tr></table>	Project Manager	\$ 125	Advanced Network Engineer	\$ 105	Senior Network Engineer	\$ 100	Associate Network Engineer	\$ 90	Hardware Specialist	\$ 75	Applicaton Developer	\$ 105	\$ 4,400.00
Project Manager	\$ 125													
Advanced Network Engineer	\$ 105													
Senior Network Engineer	\$ 100													
Associate Network Engineer	\$ 90													
Hardware Specialist	\$ 75													
Applicaton Developer	\$ 105													

LAN ITEMS TOTAL \$ 113,707.00

Pen Computer Items

Qty.	Description	Price
15	Mobile Units Includes: Fujitsu S1200s, Pentium 120, 16MB RAM, 1.4 GB Hard Drive, 12 MB Flash Cards, Win 95, 33.6 fax/modems, Harsh Environment Cases, Pen Tethers, Spare Batteries, Pens and PenRight Licenses.	\$ 71,545.00
1	Fujitsu Keyboard, 3.5" Floppy Drive & Port Replicator **Please note these items were not specified in the RFP, however for the system to run properly they are required. Please call if you have any questions.**	\$ 800.00

Included at No Charge For Educational Purposes:
PD1400, non clinical with power charger

PEN BASED ITEMS TOTAL \$ 72,345.00

Terms

- 1. Payment Net 30 days
- 2. Delivery will be made 30 - 60 days after receipt of this order.
- 3. Prices will be F.O.B. Georgetown, TX
- 4. Prices quoted do not include any applicable City, State and Federal Sales taxes

Options

Upgrade from 12 MB Flash Cards to 40 MB Flash Cards	ea.	\$	325.00
Replacement Pen Kits	ea.	\$	135.00
Battery Pack, \$1000 Li-Ion 4AH	ea.	\$	299.00
Keyboard, Fujitsu	ea.	\$	90.00
Auto Lighter Adapter (not required if using docking station)	ea.	\$	215.00

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Qty	Description	Price
1	Administration Station Software Includes: Master Administration Station License, Management Reports Option, LAN Enabled Site License, Texas State Extract	\$ 14,820.00
10	Mobile Unit Software Licenses Includes: WESTECH Mobile Unit, Remote Upload and Fax Print Licenses	\$ 16,500.00
1	Training & Implementation Assistance (Includes: 2 on site trips and associated expenses)	\$ 6,400.00
1	Project Support (Includes: 12 months support & maintenance services)	\$ 4,025.00
TOTAL		\$ 41,745.00

Included at No Charge For Educational Purposes:
ZOLL *System 12* with Interpretive Algorithm for Pen Based Computers

Terms

1. Payment Net 30 days
2. Delivery will be made 30 - 60 days after receipt of this order.
3. Prices will be F.O.B. Georgetown, TX
4. Prices quoted do not include any applicable City, State and Federal Sales taxes

Options

Extract to SweetSoft Ambulance 2000, must own or be purchasing Sweet's Ambulance 2000	ea.	\$	3,500.00
sweetsoft's import from westech software (a sweetsoft product - necessary if purchasing WESTECH's import)	ea.	\$	995.00

Product Maintenance Contract

The support services described under Warranty Support can be continued after the 12 month initial support period is over.
The fee for the **One Year** contract will be: \$ 4,910.00
Contract includes unlimited telephone support and software upgrades (released during the contract period).

MICRO AGE

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WILLIAMSON COUNTY PROPOSAL FORM

The undersigned, by his/her signature, represents that he/she is authorized to bind the bidder to fully comply with the terms and conditions of the attached Bid Invitation, Specifications, and Special Provisions for the amount(s) shown on the accompanying bid sheet(s). By signing below, you have read the entire document and agreed to the terms therein.

NAME OF BIDDER: CLARK DATA SYSTEMSMailing Address: 9777 W. GULF BAY # B-1000City: HOUSTON State: TX Zip: 77040Telephone: (713) 849-2828 Fax: (713) 849 2850Signature of Person Authorized to Sign Bid:  Date of Bid: 12/15/97Name and Title of Signer: DAVID ROOT - PEN+WHEELS DIVISION - TEAM LEADER
(Please Print or Type)

PLEASE COMPLETE THE FOLLOWING:

Prompt Payment Discount: _____% _____days. (If no discount is offered, Net 30 will apply.)

☒ Bidding on "all or none" basis. (Will accept award of "all" items only. If left blank, low item will apply.)☐ Bidding on low item basis. (Will accept award on "any or all" low bid items.)

List Additional Limitations if applicable: _____

DO NOT SIGN OR SUBMIT THIS FORM
WITHOUT READING ENTIRE DOCUMENT

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Clark Data Systems
9777 West Gulf Bank Rd.
Suite B1000
Houston, Texas 77040-3113

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System Proposal and Recommendation

Prepared for:

Williamson County Emergency Medical Services
710 Main Street, Suite 303
Georgetown, Texas 78626

Prepared by:

Clark Data Systems, Inc.
9777 West Gulf Bank Rd., Suite B1000
Houston, Texas 77040-3113
(713) 849-2828

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Proprietary Notification

The information contained within this document is confidential and should not be disclosed except for Williamson County Emergency Medical Services's internal evaluation purposes. Disclosure of this information for other than internal evaluation purposes is not permitted without the written permission of an officer of MicroAge CDS

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PRICE SCHEDULE

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ITEM #	DESCRIPTION OF PRODUCT OR SERVICES	QTY	COST	TOTAL
I. PC WORKSTATION ASSEMBLY				
1	WORKSTATION PCs	10	\$ -	\$ -
	Provided By WCEMS			
2	ADDITIONAL MEMORY			
	Additional memory if required will be provide By WCEMS, 16MB Min Req.			
3	NETWORK INREFFACE CARD (NIC)			
	Intel 10/100 network cards	10	\$ 161.00	\$ 1,610.00
4	MODEM			
	WCEMS will supply a 56k Modem installed on the designated PC	1		
5	SOFTWARE – NETWORK			
	Microsoft Office Pro Software Suite, Workstation software	1	\$ 569.00	\$ 569.00
	Microsoft Office Pro Software Suite, Workstation License	9	\$ 475.00	\$ 4,275.00
	MS Exchange Client License	5	\$ 57.25	\$ 286.25
	NT Server Workstation License (included w/FS)			
	Cheyenne 10-User NT Server Faxing Software	1	\$ 695.00	\$ 695.00
6	SOFTWARE – PC ONLY			
	PcAnywhere Host/Remote Comm Software, 3.5"	1	\$ 132.91	\$ 132.91
	PcAnywhere Remote Comm Software, 3.5"	1	\$ 76.28	\$ 76.28
7	MONITOR Supplied By WCEMS			
8	SURGE PROTECTION			
	Surge Protection for PCs will be supplied by WCEMS	10		
9	HP LASERJET			
	Existing HP LaserJet – SUPPLIED BY WCEMS	1		
	Network Card, compatible with Laserjet, - SUPPLIED BY WCEMS	1		
Hand-Held PC's				
1	ST1200 Transflective 16/1.6 Win95	15	\$ 3,675.40	\$ 55,131.00
2	Harsh Environment Cases	15	\$ 193.20	\$ 2,898.00
3	8MB Flash Cards	15	\$ 161.00	\$ 2,415.00
4	MS OfficeProfessional	15	\$ 475.00	\$ 7,125.00
5	MS Exchange Client Licenses	15	\$ 57.25	\$ 858.75
6	NT 4.0 Client Access License	15	\$ 31.65	\$ 474.75
7	Spare Stylus	15	\$ 115.00	\$ 1,725.00
8	Spare Battery	15	\$ 275.08	\$ 4,126.20
9	Tether	15	\$ 25.00	\$ 375.00
10	Keyboards	15	\$ 82.80	\$ 1,242.00
11	Cellular Fax Modem	15	\$ 259.00	\$ 3,885.00
12	EMS Solution 2000 single license	15	\$ 1,500.00	\$ 22,500.00
13	travel	1	\$ 2,000.00	\$ 2,000.00

14	Auto Adapters	15	\$ 197.80	\$ 2,967.00
15	pre-delivery installation Labor and testing - 20 hrs @ \$75	20	\$ 75.00	\$ 1,500.00
16	1 year Administrator Level tech support - 5x8 for EMS System 2000 Support includes 9am - 5pm CST - 24 incidents, emergency calls will be billed at \$250 per hour as emergency calls. This Support will be provided by Healthware Solutions.	1	\$ 3,000.00	\$ 3,000.00

EMS Solution 2000 Server Software (See alternatives in "OPTIONS
Below)

1	EMS Solution 2000 SQL Server Used for wide area networks utilizing true client-server technology for cellular or land-line modem dialup. Includes MS SQL6.5 w/5 user license, and EMS Solution 2000 SQL Server Software and Custom Installation. (2 days) For dial in and remote access, this is the recommended technology, and will function better for WCEMS in the long run	1	\$ 12,000.00	\$ 12,000.00
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II. FILE SERVER ASSEMBLY

1	FILE SERVER PC NEC Model ES1200, Pentium II, 512KB Cache, 64MB ECC Memory 12X-CD ROM, Two (2) 9GB Hard Drives, 10/100 NIC w/Processor Three (3) US Robotics 56k Modems, 7x24-4hr response maintenance	1	\$ 6,994.00	\$ 6,994.00
2	NICs Included with file server Not Required, Compaq included NIC in server			
3	FILE SERVER NETWORK SOFTWARE NT File Server Software w/10 Workstation Clients PcAnywhere-Workstation, CD based, Load from FS	1	\$ 1,046.73	\$ 1,046.73
4	FILE SERVER EMAIL SOFTWARE MS Exchange Server Software with 5 client licenses	1	\$ 969.00	\$ 969.00
5	POWER STRIP APC Surge Protector, 7-outlets	1	\$ 15.40	\$ 15.40
6	MONITOR CTX 15" 1024 x768 SVGA Color	1	\$ 294.00	\$ 294.00
7	MODEM Included with file server PC			
8	TAPE BACKUP HP 24GB External Tape Drive 12/24 GB HP Tape Cartridges - five (5) pack	1 3	\$ 1,581.00 \$ 144.00	\$ 1,581.00 \$ 432.00
9	TAPE BACKUP SOFTWARE Cheyenne NT Tape Backup Software	1	\$ 685.43	\$ 685.43
10	UN-INTERRUPTIBLE POWER SUPPLY (UPS) APC Electrical Power Battery Backup	1	\$ 473.64	\$ 473.64
11	UPS SHUTDOWN SOFTWARE Included with UPS			
12	7-BAY CD-TOWER Procomm 7-bay EtherNet CD-Tower HP Surestore CD Writer Ext CD Drive	1 1	\$ 2,994.00 \$ 530.00	\$ 2,994.00 \$ 530.00

13	RAS ACCESS SYSTEM WITH SIX MODEMS				
	US Robotics 56k External Modems	6	\$	195.00	\$ 1,170.00
	8-Port DigiBoard - with cable	1	\$	570.00	\$ 570.00
	RAS Modification Software to allow multiple concurrent RAS access	1	\$	994.00	\$ 994.00
14	WatchGuard Remote Access Firewall	1	\$	3,995.00	\$ 3,995.00
	Labor To Install & Config Firewall	8	\$	150.00	\$ 1,200.00
III. CABLING INFRASTRUCTURE					
1	CABLE DROPS PROVIDED BY WCEMS				
	Ten (10) 100BT Category 5 Voice / Data cable drops	10	\$	-	\$ -
2	PATCH CABLE FOR PCs – PROVIDED BY WCEMS				
	15ft Category 5 Patch Cables	10	\$	-	\$ -
3	PATCH CABLES HUB – PROVIDED BY WCEMS				
	3ft Category 5 Patch Cables	10	\$	-	\$ -
4	100BT HUB – PROVIDED BY WCEMS				
	100BT Hub	1	\$	-	\$ -
IV. LABOR SERVICES					
1	WORKSTATION HARDWARE / SOFTWARE INSTALLATION & CONFIGURATION - IN-HOUSE				
	The following software / hardware components will be installed in the Workstation PCs:	1	\$	150.00	\$ 150.00
	a. Intel 10/100 network cards				
	b. Microsoft Office Suite, which includes MS Word, MS Excel and PowerPoint				
	c. MS Exchange, installation and configuration of the email software				
	d. NT Server Client, installation and configuration of the server access software				
	e. Install / Config PcAnywhere Host/Remote Sftwr				
	f. Test APC Surge Protector, 7-outlets				
	g. Install & test Monitor				
	h. Test internal Modem				
2	FILE SERVER HARDWARE / SOFTWARE INSTALLATION & CONFIGURATION - IN-HOUSE				
	The following software / hardware components will be installed in the network file server PC:	20	\$	150.00	\$ 3,000.00
	a. NT File Server Software				
	b. PcAnywhere, to allow load from Workstation				
	c. MS Exchange Email software				
	h. Word, Excel & PowerPoint server software				
	i. Test APC Surge Protector, 7-outlets				
	j. Test 15" SVGA Color				
	k. Install & test 12/24 DAT Drive				
	l. Install & Config Cheyenne Tape backup software				

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3	INSTALLATION & CONFIGURATION OF NETWORK ONSITE				
	Install file server, workstations, monitors, External Tape Drive, remote communication workstation, power strips, ups, re-test backup software, shutdown software, add employees names to NT server, connect 100BT Hub, connect PCs / SERVER to network wiring, attach existing printers to new workstations and configure one (1) network printer. Configure and Test Firewall, Configure and test RAS connection NOTE*: 3 Hours of travel time have been allocated for travel to and from locations from which a remote connection is required. Additional Travel time if needed, will be outside the scope of this agreement.	32	\$ 150.00	\$ 4,800.00	
V.	TRAINING SERVICES				
	Overview training after network install by the CDS project engineer (2hrs)	2	\$ 150.00	\$ 300.00	
	One (1) day training for employees on Word, Excel or Windows 95, Note: Cost is per application (Optional)	8	\$ 160.00	\$ 1,280.00	
	Training	1	\$ 1,250.00	\$ 1,250.00	
VI.	MAINTENANCE & SUPPORT				
1	NETWORK HARDWARE SUPPORT				
	File Server has a one (1) year 7x24 onsite limited warranty, onsite support				
2	NETWORK OPERATIONAL SUPPORT by CDS/MicroAge or MicroAge Affiliate				
	One year telephone network support, 24 incident calls, 7x24	1	\$ 8,995.00	\$ 8,995.00	
3	One year Onsite on network support, 6 incident calls, 7x24 Onsite within 24 hours of request for support	1	\$ 12,495.00	\$ 12,495.00	
	OPTIONS:				
	EMS Solution 2000 LAN File Server Set-up: used for desktop systems set-up with data tables on a file server. Includes EMS Solution 2000 LAN File Server Software and Custom Installation. (1 day)	1	\$ 2,500.00		
	EMS Solution 2000 LAN File Server Set-up: used for wide area network systems set-up with data tables in a file server, (File Sharing) for cellular or land line modem Dial-up. Includes EMS Solution 2000 Server software for the WAN Server, and custom Installation. (1 day) Win NT Not Included.	1	\$ 6,500.00		
	TOTALS			\$ 188,081.35	

SCHEDULES FOR INSTALLATION AND PAYMENT TERMS

Estimated Initial Approval Date	December, 23 1997
Estimated Date for Network Cabling	Provided by WCEMS
Estimated Date for Ordering Products	December, 29 1997
Estimated Date for In-house Workstation Install	January 12 thru January 26, 1998
Estimated Date for In-house File Server Install	January 12 thru January 26, 1998
Estimated Date for Onsite Network Install	January 26, thru February 4, 1998

Payment Terms Options: -- Payment required 20 days after delivery of equipment

NT 4.0 Network Support Agreement
WILLIAMSON COUNTY EMERGENCY MEDICAL SERVICES

Client

Network Administrative Support

Network Administrative Support will be available Monday through Friday from 8am to 5pm except CDS-holidays and beeper support 7x24, via telephone, via modem, or on-site as necessary. If on-site service is required it will be billed at our current rates for technicians and engineers. Customer must provide a minimum of a 56K kbps modem, an incoming telephone line connected to the modem, and a remote communications software package as specified by CDS.

Prior to the start of this agreement, CDS will perform an analysis of the customer's network to determine the current network condition, its maintainability, and identify any areas that would benefit from increased efficiency. This activity will consist of approximately two (2) hour's on-site at a mutually convenient scheduled time.

The above support options require that the file server be protected by a MicroAge/CDS on-site hardware service agreement that is coterminous with this agreement. This Network Administrative Support Agreement is made as an attachment to the MicroAge Service Agreement including its terms and conditions. Any services requested outside the scope of this agreement or the hardware service agreement will be billed to the Customer at the then current published rates for those activities and payable within ten (10) days from date of invoice.

Customer is responsible for reconstruction of lost or altered files, data, or programs, and for the security of its proprietary, confidential, and classified information. CDS in no event shall be liable for any direct, indirect or incidental damages (including loss of profits) due to loss of company data or programs. Customer has sole responsibility for maintaining a current backup of such data and programs.

Accepted: _____ Date _____
Client

Clark Data Systems, Inc.

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EXCEPTIONS

- 1) The documentation for the hardware and software is not available on diskette, and will be provided in written format as provided by all of the manufacturers included within this proposal.

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ACCEPTANCE CRITERIA

It is agreed by all parties hereto that prior to the installation of any of the equipment contained herein, CDS and WCEMS will agree in writing as to the specific acceptance criteria by which it will be agreed that the system has been properly installed.

AGREEMENT FOR SYSTEMS INTEGRATION SERVICES

Between

WILLIAMSON COUNTY EMERGENCY MEDICAL SERVICES
710 Main Street, Suite 303
Georgetown, Texas 78626

Attention: Ms. Ginny Atkinson
Purchaser

And

Clark Data Systems, Inc.
9777 West Gulf Bank Rd., Suite B1000
Houston, Texas 77040-3113

Your approval below constitutes acceptance of the network integration services detailed in the Scope Of Work.

Agreed and understood

WILLIAMSON COUNTY EMERGENCY MEDICAL SERVICES
Systems, Inc.

Accepted by Clark

By _____
Ms. Ginny Atkinson

By _____
Bill Peterson

Date _____

Date _____

AGENDA ITEM # 22

January 13, 1998

*

Consider awarding, rejecting or extending proposals for professional services for transportation planning.

Judge Doerfler advised Commissioner Heiligenstein wished to table this item until the meeting of January 20, 1998, for interviews and review of the 2 proposals received.

AGENDA ITEM # 23

January 13, 1998

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Consider authorizing advertising and setting date for public hearing on revisions to subdivision regulations.

Seconded: Judge Doerfler

Motion: Commissioner Boatright

To: To authorize work session at 2 p.m. on January 27, 1998, and Public hearing at 10 o'clock a.m. on February 10, 1998, for subdivision regulations.

Vote: Motion carried 4 - 0 with Commissioner Hays absent from the dais.

AGENDA ITEM # 24

January 13, 1998

*

Consider authorizing advertising and setting date to open bids for improved building, storage building and storage shed at Central Maintenance Facility.

Moved: Judge Doerfler

Seconded: Commissioner Boatright

Motion: To authorize advertising 10 a.m. March 24, 1998, to open bids for improved building, storage building and storage shed at Central Maintenance Facility.

Vote: Motion carried 5 - 0

AGENDA ITEM # 25

January 13, 1998

*

Consider making appointments to the Grievance Committee for 1998.

Judge Doerfler drew the following prospective names for service on the 1998 Grievance Committee:

Isabel Balderas Sloan	3913 Hillside,	Round Rock, Tx.
Deborah Albers	CR 329,	Walburg, Tx 78673
Donald Lee McCarthy	205 Acker Drive,	Georgetown, Tx 78628
Linda Fisher	320 A Tamara,	Georgetown, Tx.
Cora Scurlock	3000 Live Oak,	Round Rock, Tx.
Edward Lopez	Box 606,	Granger, Tx. 76530
Albert Martin Parker	1707 Essen Avenue,	Round Rock, Tx.
Harold Bludau	205 Acker Drive,	Georgetown, Tx. 78628
Jose Cantu	1807 Parkwood,	Leander, Tx. 78641

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Moved: Commissioner Mehevec

Seconded: Judge Doerfler

Motion: To note the drawing of the above listed names with contact to be made for the possibility of service on the 1998 Grievance Committee.

Vote: Motion carried 3 - 1 with Commissioner Heiligenstein voting against the motion and Commissioner Hays absent from the dais.

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