

**AGENDA ITEM 37**

**Discuss and take appropriate action on proposals received for mechanical engineering.**

Bob Space explained that this request pertains to mechanical engineering design and oversight at the Justice Center.

Proposals were received from the following:

*Aguirre Corporation, Dallas, Texas*

*Hendrix Consulting Engineers, Round Rock, Texas*

*Novaré Engineers, Inc., Providence, Rhode Island*

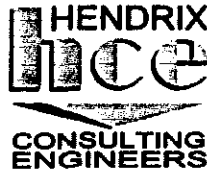
Moved: **Commissioner Heiligenstein**

Seconded: **Commissioner Hays**

Motion: To award the proposal for mechanical engineering at the Justice Center to Hendrix Consulting Engineers of Round Rock, Texas.

Vote: **5 - 0**

< Attachment >



115 East Main Street

Round Rock, Texas 78664

PH: (512) 218-0060

FAX: (512) 218-0077

August 14, 2002

Williamson County Commissioner's Court

In response to the County's advertisement for a Professional Mechanical Engineer we respectfully submit the attached Company qualification information package. We appreciate your consideration in this matter.

If you have any questions or if I may be of further assistance, please do not hesitate to call our office.

Sincerely,

A handwritten signature in black ink, appearing to read "B.J. Hendrix". The signature is written over a horizontal line.

B.J. (Buck) Hendrix, P.E.  
Hendrix Consulting Engineers

BJH:kam



**Hendrix Consulting Engineers**  
115 E. Main Street  
Round Rock, TX 78664

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**PH: 512-218-0060**

**FAX: 512-218-0077**

## **PROJECT INFORMATION**

HCE HAS BEEN INVOLVED IN MANY NEW AND RENOVATION PROJECTS REQUIRING TEMPERED OUTSIDE AIR AND HUMIDITY CONTROL FOR VARIOUS AREAS THROUGHOUT THE PROJECT.

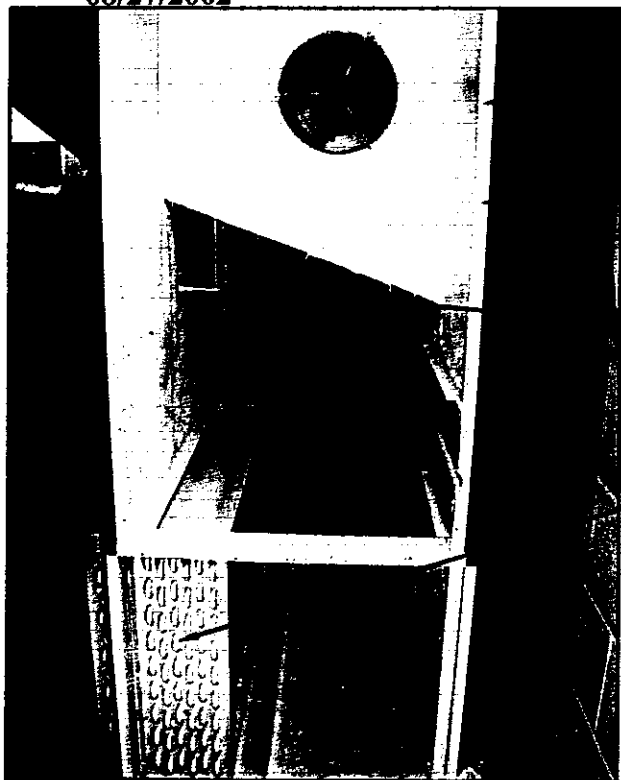
WE HAVE USED 100% OUTSIDE AIR MACHINES WHICH PROVIDE NEUTRAL DRY AIR (70°F/50%RH) DIRECTLY TO OCCUPIED AREAS AND/OR AIR HANDLING ROOMS TO MAINTAIN REQUIRED VENTILATION REQUIREMENTS. REFERENCE ATTACHED PHOTOS 5 AND 6 FOR EXAMPLE OF OUTSIDE AIR MAKEUP MACHINES.

WE HAVE ALSO DESIGNED HEATING AND COOLING COIL CONFIGURATIONS AND CONTROL SEQUENCES TO AID IN MAINTAINING SPACE HUMIDITY CONTROL THRU DDC CONTROL SYSTEMS. REFERENCE ATTACHED PHOTOS 3 AND 4 FOR COIL RECONFIGURATION EXAMPLES.

IN VARIOUS RENOVATION PROJECTS IT MAY BE NECESSARY TO CLEAN EXISTING AIR HANDLING UNITS AND APPLY AN ANTIMICROBIAL AGENT TO INTERIOR SURFACES TO PROVIDE FOR ADDITIONAL PROTECTION AGAINST MOLD CONTAMINATION. REFERENCE ATTACHED PHOTOS 1 AND 2 FOR EXAMPLE OF UNIT INTERIOR CLEANING AND COATING.

HCE ALSO HAS THE CAPABILITY TO CHECK SUPPLY CFM AT GRILLES THROUGH THE USE OF AN 'ALNOR' FLOW HOOD AS WELL AS PROVIDE ADDITIONAL SYSTEM COMMISSIONING SERVICES AS REQUESTED.

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AIR HANDLING UNIT

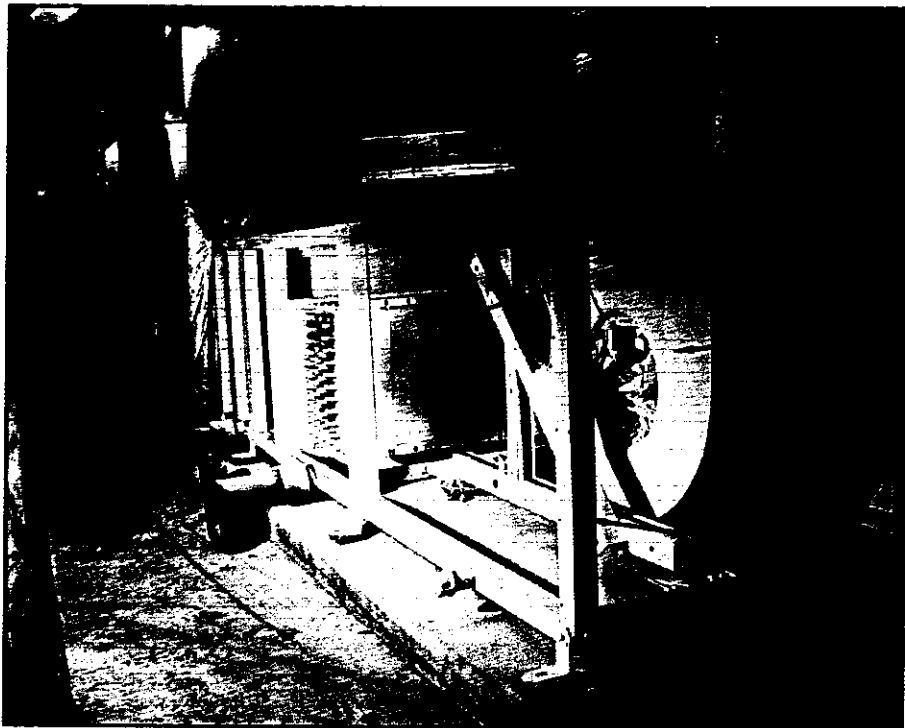
EXTERIOR PANELS REMOVED TO  
ALLOW FOR CLEANING AND COATING  
WITH ANTIMICROBIAL

FAN MOTOR

COILS RECORDERS MEMORANDUM  
All or parts of the text on this page was not  
clearly legible for satisfactory recordation.

EXAMPLE: DETENTION FACILITY  
RENOVATION PROJECT FOR  
HUMIDITY CONTROL

PHOTO 1



MAKE UP AIR SUPPLY DUCT

COILS SECTION

FAN

EXTERIOR PANELS REMOVED TO  
ALLOW FOR CLEANING AND COATING  
WITH ANTIMICROBIAL

PHOTO 2

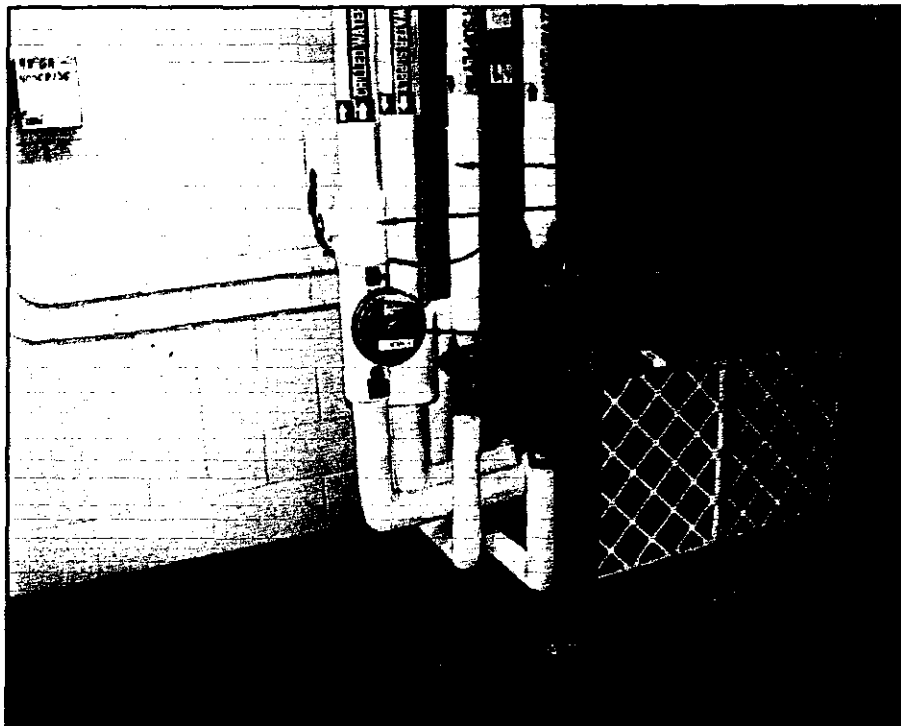


TITLE **WILLIAMSON COUNTY PROPOSAL  
FOR MECHANICAL ENGINEER**

DATE  
8/15/02

JOB NO.  
02-101

PHOTO NO.  
**1-2**



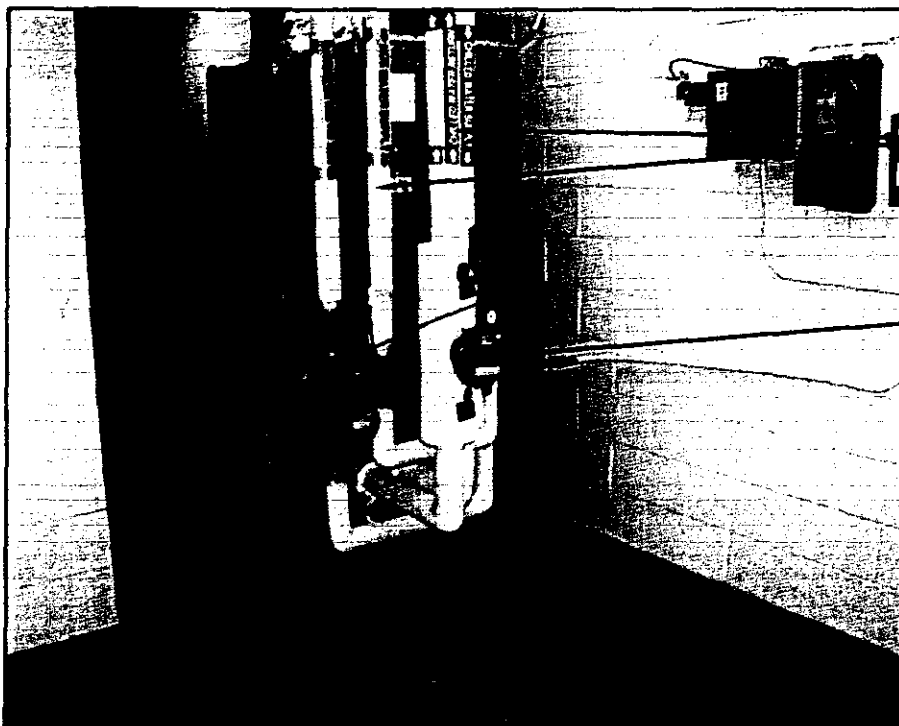
CHILLED AND HOT WATER COILS AND  
PIPING RECONFIGURED TO REHEAT  
FOR HUMIDITY CONTROL

CONTROL VALVES

RETURN AIR SECTION

EXAMPLE: DETENTION FACILITY  
RENOVATION PROJECT FOR  
HUMIDITY CONTROL

### PHOTO 3



CHILLED AND HOT WATER COILS AND  
PIPING RECONFIGURED TO REHEAT  
FOR HUMIDITY CONTROL

CONTROL VALVE

#### RECORDERS MEMORANDUM

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clearly legible for satisfactory recordation.

EXAMPLE: DETENTION FACILITY  
RENOVATION PROJECT FOR  
HUMIDITY CONTROL

### PHOTO 4

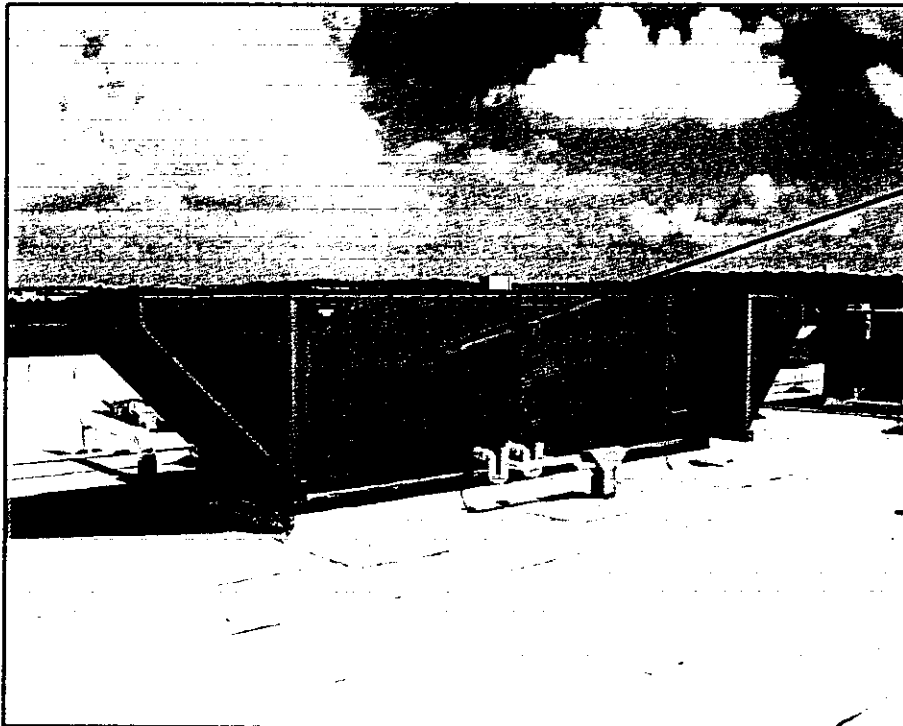


TITLE **WILLIAMSON COUNTY PROPOSAL  
FOR MECHANICAL ENGINEER**

DATE 8/15/02

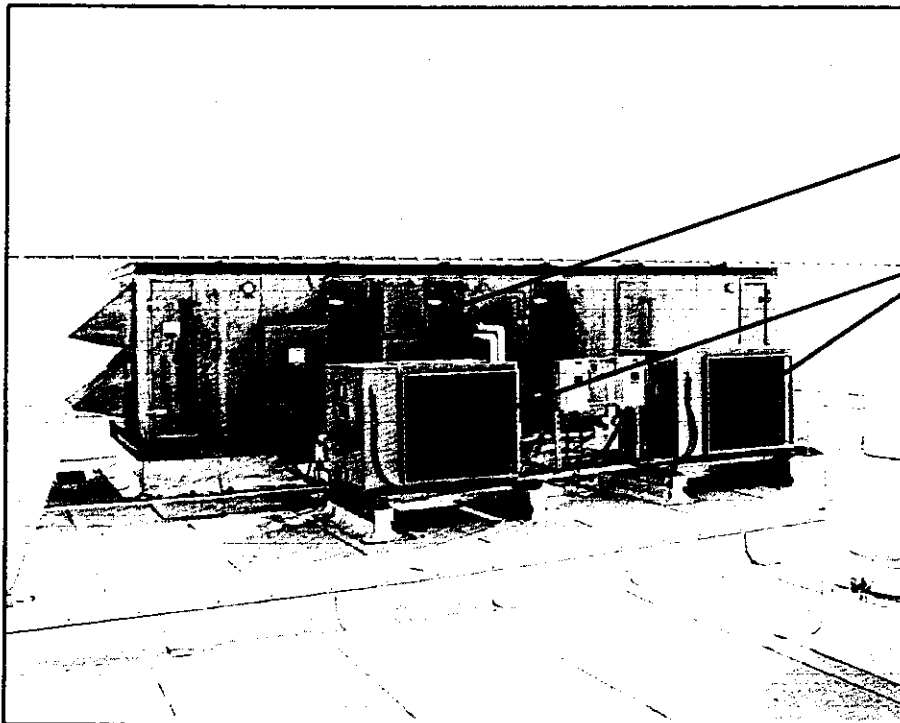
JOB NO. 02-101

PHOTO NO. **3-4**



EXAMPLE OF PACKAGE  
OUTSIDE AIR MACHINE

## PHOTO 5



OUTSIDE AIR MACHINE

REMOTE CONDENSORS  
FOR OUTSIDE AIR MACHINE

RECORDERS MEMORANDUM  
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clearly legible for satisfactory recordation.

## PHOTO 6



TITLE **WILLIAMSON COUNTY PROPOSAL  
FOR MECHANICAL ENGINEER**

DATE  
8/15/02

JOB NO.  
02-101

PHOTO NO.  
**5-6**



Hendrix Consulting Engineers  
115 E. Main Street  
Round Rock, TX 78664

PH: 512-218-0060

FAX: 512-218-0077

**HCE RATE SCHEDULE**

ENGINEERING FEES WILL BE NEGOTIATED ONCE FINAL PROJECT SCOPE IS DETERMINED.  
BELOW IS OUR CURRENT RATE SCHEDULE FOR YOUR INFORMATION.

ENGINEERING SERVICES	RATE
PRINCIPAL	\$115.00
PROJECT MANAGER	\$ 85.00
ENGINEERS	\$ 90.00
SR. DESIGNER	\$ 80.00
COMPUTER AIDED DESIGNER	\$ 65.00
DESIGNER I	\$ 65.00
ADMINISTRATIVE/CLERICAL	\$ 45.00



**RECORDERS MEMORANDUM**

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## **FIRM DESCRIPTION**

HCE is a Consulting Engineering Firm based in Round Rock, Texas. HCE provides mechanical, electrical and plumbing engineering to clients throughout the State of Texas. As one of the critical members of a project's design team, HCE works closely with Owners and Architects during the planning and design stages to ensure that construction schedules and optimum completion dates are met. Through our quality design services, HCE has earned a reputation for high performance systems that comply with the design intent, contract specifications, and detail in coordination between disciplines throughout the project. The firm's personal attention and quick response throughout the project, including the Construction Phase, have been the trademark of HCE Professional Services. HCE can also provide HVAC commissioning services for projects to insure a quality project completion.

Project experience includes office buildings, banking facilities, educational facilities, research and development facilities, industrial/manufacturing service centers, detention facilities, justice facilities, computer rooms, retail centers, parking garages and churches.

HCE utilizes AUTOCAD Release 2002 software and a Hewlett Packard Designjet Plotter for printing CAD designs. For all word processing assignments, the office utilizes WORDPERFECT 8.0 for WINDOWS 98.

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**Hendrix Consulting Engineers**  
115 E. Main Street  
Round Rock, TX 78664

Phone: 512-218-0600

Fax: 512-218-0077

## **REFERENCE LIST**

**FORT BEND COUNTY DIRECTOR OF ADMINISTRATIVE SERVICES**  
**J.C. WHITTEN**  
**RICHMOND, TX**  
**(281) 344-3950**

**FIELDS ENGINEERING CONSULTANTS, INC.**  
**RICHARD FIELDS, P.E.**  
**STAFFORD, TX**  
**(281) 340-8900**

**MOMAN ARCHITECTS, INC.**  
**JOHN MOMAN**  
**ROUND ROCK, TX**  
**(512) 733-1150**

**BLGY ARCHITECTS**  
**BILL RICHARDSON**  
**AUSTIN, TEXAS**  
**(512) 451-8281**



**Hendrix Consulting Engineers**  
115 E. Main Street  
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**FAX: 512-218-0077**

**PROJECT EXPERIENCE**  
**DETENTION PROJECTS**

**Fort Bend County Jail HVAC Retrofit and Commissioning**  
Richmond, Texas

Status: Under Construction  
Total Cost: \$750,000

**Williamson County Juvenile Facility**  
Georgetown, Texas

Design Completed: 2000  
Status: Under Construction  
Total Cost: \$20,000,000

**Denton County Justice Center**  
Denton, Texas

Design Completed: 1999  
Status: Construction Completed 2002

**Denton County Jail - Additions**  
Denton, Texas

Design Completed: 1999  
Status: Construction Completed 2002

**Fort Bend County Jail**  
Richmond, Texas

Design Completed: 1993  
Status: Construction Completed 1995  
Total Cost: \$23,500,000  
MEP Cost: \$ 6,110,000

**Texas Youth Commission - Golden Triangle**  
Jefferson County, Texas

Design Completed: June 1993  
Status: Construction Completed 1995  
Total Cost: \$18,260,057  
MEP Cost: \$ 2,950,601

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**Denton County Jail**  
Denton, Texas

Design Completed:	1992
Status:	Construction Completed 1994
Total Cost:	\$4,402,306
MEP Cost:	\$1,488,325

**Texas Youth Commission - Gainesville (II)**  
Gainesville, Texas

Design Completed:	1991
Status:	Construction Completed 1993
Total Cost:	\$2,300,000
MEP Cost:	\$ 850,000

**Lamar County Jail**  
Paris, Texas

Design Completed:	1990
Status:	Construction Completed 1992
Total Cost:	\$3,200,000
MEP Cost:	\$1,062,429

**Texas Youth Commission - Brownwood**  
Brownwood, Texas

Design Completed:	1988
Status:	Construction Completed 1989
Total Cost:	\$1,800,000
MEP Cost:	\$ 450,000

**Bastrop Federal Correctional Institute - Commissary**  
Bastrop, Texas

Design Completed:	1988
Status:	Construction Completed 1989
Total Cost:	\$130,000
MEP Cost:	\$ 23,500

**Williamson County Criminal Justice Facility**  
Georgetown, Texas

Design Completed:	1988
Status:	Construction Completed 1990
Total Cost:	\$15,300,000
MEP Cost:	\$ 3,825,000

**Texas Youth Commission - Gainesville**  
Gainesville, Texas

Design Completed:	1988
Status:	Construction Completed 1989
Total Cost:	\$1,628,910
MEP Cost:	\$ 201,600

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# hce

Hendrix Consulting Engineers  
115 E. Main Street  
Round Rock, TX 78664

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## B.J. Hendrix, P.E.

### Principal

#### Education

University of Texas at Austin:

B.S. - Architectural Engineering, 1974;  
M.S. - Engineering, 1976

#### Registrations

Registered Professional Engineer - Mechanical

- State of Texas, No. 47325    State of New Mexico, No. 10242
- State of Alaska, No. ME-4913    State of Florida, No. 38972

#### Professional Affiliation/ Courses

ASHRAE

Corps of Engineers Training Course: Construction Quality Management for Contractors

#### Experience

1995-Present

HCE

Round Rock, Texas

##### **Mechanical Engineer**

##### **Owner**

- Responsible for overall project design and management. Experienced in production and coordination of mechanical, plumbing and electrical plans for educational, industrial and commercial building. Responsible for Commissioning and Remediation projects.
- Specific projects include: Lakewood Office Building, 301 Sundance (La Frontera) Office Building, GSD&M Office Building, Round Rock Middle School, Round Rock Performing Arts Center, Stony Point High School, First Texas Branch Bank – Sun City, Sun City Georgetown, Williamson County Juvenile Center, First State Bank Remodel, Pflugerville High School #3, and Dell Computer Office/Manufacturing Projects.

1982 to 1995

Hendrix &amp; Myers

Round Rock, Texas

##### **Mechanical Engineer**

##### **Partner**

- Execution of design of mechanical and plumbing systems, production and coordination of mechanical, electrical and plumbing systems.
- Specific project experience: IBM Research & Development Facility, Rolm, 3M Research & Development Buildings, Presidio Theaters, Texas Nuclear, Fort Hood Communications Warehouse, Dell Computers, AMP, Carroll Touch,

Lamar County Jail, Denton County Jail, Apple Computer, National Instruments, Pflugerville Auditorium, Pflugerville Elementary Nos. 4, 5, and 6.

1980 to 1982                      Bovay Engineering, Inc.                      Austin, Texas

**Mechanical Department Manager**

- Project execution, design and engineering assignments.
- Specific projects: National Supply Valve Manufacturing Plant, Texas Department of Corrections Facilities.

1977 to 1980   Crews Macinnes & Hoffman Consulting Eng., Inc.   Anchorage, Alaska

**Project Manager**

**Lead Mechanical Engineer**

- Project design and coordination specializing in building mechanical system design. Experience in installation of mechanical systems testing and balancing of air systems, use of computer duct design programs and plumbing systems.
- Design experience included schools, commercial office buildings and museums.

1975 to 1977                      Hammer Consulting Engineers, Inc.                      Austin, Texas

**Mechanical Designer**

- Design, Layout and Drafting

1974 to 1975                      University of Texas - Research Assistant   Austin, Texas

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## Larry M. Millican

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### Electrical Designer

#### Education

Southwest Texas State University, Midland College, I.B.E.W  
Apprenticeship School

Corps of Engineers Training Course: Construction Quality Management for  
Contractors

#### Experience

1997-Present HCE Round Rock, Texas

##### **Project Manager / Electrical**

- Design of Electrical power and lighting systems for Commercial and Institutional Building clients
- Client/Project coordination
- Site/Field work during Construction Administration Phase.
- Specific Projects: Round Rock and Pflugerville Schools, Lakewood Office Park, Plaza on the Lake, La Frontera Office Building

1992-1997 HiCap Electric, Inc. Austin, Texas

##### **Project Manager / Owner**

- All aspects of Commercial Electrical Installations.
- Estimating Projects, Purchasing, Overseeing Project Coordination.
- General Management Duties for up to 50 Employees

1991-1992 Cap Electric Midland, Texas

##### **Electrical Foreman**

- Layout and Construction of Commercial Electrical Projects
- Coordination of installation between trades.
- Overseeing of crews on projects.

1989-1991 D&D Electric, Inc. Midland, Texas

##### **Electrical Foreman**

- All aspects of Residential and Commercial Electrical Installation.
-

1982--1989      Mott Electric, Inc.      Georgetown, Texas  
**Project Manager / Foreman**

- Estimating Projects, Purchasing, Overseeing Project Coordination

1980-1982      Millican Electric      Midland, Texas  
**Owner**

All aspects of Residential and Commercial Electrical Installation.

1976-1980      MidWest Electric      Midland, Texas  
**Electrical Apprentice**

- All aspects of Residential and Commercial Electrical Installation.

**General**

Master Electrician License : Austin, Round Rock and Georgetown

- Served on City of Georgetown Electrical Board
-





Hendrix Consulting Engineers  
115 E. Main Street  
Round Rock, TX 78664

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## Keith A. Mayes

### CAD/Design Manager

#### Education

Austin Community College  
Studies in Drafting, Engineering and Air Conditioning  
Corps of Engineers Training Course: Construction Quality Management for Contractors

#### Experience

1995-Present                      Hendrix Consulting Engineers                      Round Rock, Texas

##### **Mechanical Designer**

- Senior Mechanical Designer and CAD System Manager. Responsible for project design, job production and overall management of computer (CAD) System.
- Specific projects include: Lakewood Office Building, GSD&M Office Building, Round Rock Middle School, Benold Middle School, Deepwood Elementary Remodel, Sun City, Austin Radiological, Laurel Mountain Elementary Addition, Pond Springs Elementary School Addition and Dell Computer Remodel.

1982 to 1995                      Hendrix & Myers                      Round Rock, Texas

##### **Mechanical Designer**

- Responsible for AutoCad drafting and mechanical design.
- Design experience includes heating and cooling load calculations, duct system layout and design, layout of riser diagrams, and the design of plumbing systems.
- Project experience includes: Texas Commission for the Blind, Austin, Texas; American Cancer Society, Austin, Texas; Leander Postal Facility, Leander, Texas; Prucare N.W. Clinic, Austin, Texas; Austin Diagnostic Clinic, Austin, Texas; Lago Vista High School, Lago Vista, Texas; Pflugerville Connally High School, Pflugerville, Texas; Zachary Scott Theater, Austin, Texas; Stony Point High School, Round Rock, Texas; Golfsmith, Austin, Texas.

1981 to 1982                      Houston Instruments                      Austin, Texas

##### **Draftsman**

- Responsible as operator of Bausch & Lomb Drafting System. Responsible for the drafting and documentation of Engineering changes.

##### **Mechanical Assembly**

1979 to 1981                      Houston Instruments                      Austin, Texas

August 30, 2002

Distribution

RE: Receipt Books

County Judge

JP-1

JP-2

JP-3

JP-4

Constable 1

Constable 2

Constable 3

Constable 4

Commissioner Pct. 1

Commissioner Pct. 2

Commissioner Pct. 3

Commissioner Pct. 4

Benefits

Treasurer

Sheriff

County Attorney

County Clerk

Tax A/C

CSCD

Juvenile Services

District Attorney

District Clerk

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**AGENDA ITEM 38**

Discuss and take appropriate action on re-award of various annual bids for Fiscal Year 2003.

Moved: **Commissioner Boatright**

Seconded: **Commissioner Limmer**

Motion: To approve re-awarded bids as recommended by the County Auditor.

Vote: 5 – 0

< Attachment >

**NOTICE TO THE PUBLIC  
WILLIAMSON COUNTY COMMISSIONER'S COURT  
AUGUST 27, 2002**

38. Discuss and take appropriate action on re-award of various annual bids for fiscal year 2003.

❖ **Recommend re-award of the following annual bids:**

**03WCA004 - CONTRACT LABOR**

Edd Fulkes Concrete

**03WCA009 - FENCING LABOR**

Billy Greene Fencing

**03WCA010 - FENCING MATERIALS**

American Fence & Supply

**03WCA012 - FLUIDS & GREASE**

Arnold Oil Company (Items 1-8 & 10)

Allied Sales Company (Items 9 & 11-13)

**03WCA016 - HYGIENE PRODUCTS**

ICS

\* **03WCA017 - SEAL COATING**

Big Tex Paving Co.

\* **03WCA020 - JANITORIAL SERVICE**

ServiceMaster

**03WCA024 - PRINTING SERVICES – GENERAL & SPECIALIZED FORMS**

Safeguard Business Systems (Items 1-43 & 45-47)

\* **03WCA025 - ROADSIDE CHEMICALS & HERBICIDES**

Argo Distribution, LLC

**03WCA030 - MEDICAL GRADE OXYGEN**

Airgas

**03WCA032 - UNIFORMS FOR URS**

Cintas

**03WCA034 - WELDING GASES**

Airgas Southwest

**03WCA036 - WELDING SUPPLIES**

Airgas Southwest

**03WCA041 - BOTTLE WATER SERVICES**

Ozarka

**03WCA045 - OFFICE FURNITURE**

Eagle Office Products

\* Denotes CPI Increase (1.2%)

*approved 8-27-02  
John C. Darfler*