Design Proposal for Hangar 375
A/E PARR Hangar Interior Design Project
May 8, 2017

Mr. Jason Kindschuh
Procurement Agent
The Boeing Company
375 Airlift Drive
San Antonio, TX 78226

RE: Proposal for A/E Design Services Hangar 375 A/E PARR Interior Design Project

Dear Mr. Kindschuh:

We are very grateful for the opportunity to submit this proposal for A/E services for the structural modifications to your Hangar 375 to facilitate maintenance and retrofit of Boeing 747-800 military aircraft for the Air Force One fleet. We are excited to have the opportunity to potentially play a part in this high profile effort. This project offers challenges and opportunities in making structural modifications in a cost effective and schedule sensitive manner.

Dawson Van Orden, working with Rogers-Obrien offers a project team with substantial experience in the design aspects of this important project, as well as construction expertise for value engineering, constructability reviews, and development of accurate cost estimates and construction schedules. We heard very clearly the importance of being able to deliver a completed construction of these renovations and modifications by October 5, 2018, and our team has the expertise to provide accurate forecasting and tracking toward that goal during this phase of the project.

While with other companies, myself and several other team members have worked directly with Boeing in the past at your San Antonio site. We provided design and construction on retrofits to your chemical stripping hangar and provided preliminary designs and feasibility studies on significant potential modifications to your paint hangar and provided extensive on-call services for Boeing in Houston.

We commit at all levels within our company to give superior performance and make this important project a reality and a success.

With best regards,

William H. Niksch, AIA NCARB
Vice President and Senior Project Manager
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Bid Item 1 – Firm Fixed Pricing for Project Completion

**COST PROPOSAL**
Bid Item 2 – Bid Alternates – Initial Value Engineering Suggestions

<table>
<thead>
<tr>
<th>Item</th>
<th>Impact on Design Cost</th>
<th>Impact on Construction Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Consider all available options for door modifications during first 30% design. There are less costly approaches and we would like to define, evaluate costs and dependability of the solutions for consideration.</td>
<td>No impact</td>
<td>Potential significant impact</td>
</tr>
<tr>
<td>2. Delete requirement for Soils Report during design. This is likely not required as the thickened slab and existing foundations in the hangar and around the airfield is likely sufficient to support any proposed construction for modifications without special foundations.</td>
<td>Do not add this cost to A/E Proposal Cost</td>
<td>No impact</td>
</tr>
<tr>
<td>3. Allow payment of design contract terms to be modified from net 90 days.</td>
<td>Net 60 - Deduct 1% from A/E costs and billings</td>
<td>No Impact on current design proposal.</td>
</tr>
<tr>
<td></td>
<td>Net 30 Deduct 2% from all A/E costs and billings</td>
<td>No Impact on current design proposal.</td>
</tr>
<tr>
<td>Item</td>
<td>Week Number</td>
<td></td>
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<tr>
<td>Authorization to Proceed</td>
<td>1</td>
<td></td>
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<tr>
<td>Kick-Off Meeting</td>
<td>2</td>
<td></td>
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<tr>
<td>Site Investigation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Develop 30% Design</td>
<td>4</td>
<td></td>
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<tr>
<td>Develop 30% Estimate</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Submit 30% Design</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Review by Boeing</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Develop 60% Design</td>
<td>8</td>
<td></td>
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<tr>
<td>Develop 60% Estimate</td>
<td>9</td>
<td></td>
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<tr>
<td>Submit 60% Design</td>
<td>10</td>
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<tr>
<td>Review by Boeing</td>
<td>11</td>
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<tr>
<td>Develop 90% Design</td>
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<tr>
<td>Develop 90% Estimate</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Submit 90% Design</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Review by Boeing</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Develop IFC Submittal</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Develop IFC Estimate</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Submit IFC Package</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Design Schedule Contingency (If NTP by June 15)</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

**Bid Item 3 – Design Schedule**
Bid Item 4 - Personnel for Project

Dawson Van Orden was founded as Van Orden Engineering in Houston, Texas in 1974. Today, Dawson Van Orden (DVO) has grown to become a full-service engineering firm offering diverse project experience in a wide range of services including:

- Mechanical Engineering Design
- Electrical Engineering Design
- Plumbing Engineering Design
- Civil Engineering Design
- Structural Engineering Design
- Plating Consulting Services
- Plan and Profiles
- Life Safety and A.D.A Design
- Building Inspections and Due Diligence Reports
- Engineering Feasibility Studies
- Civil, Structural & MEP Comparative cost studies and Value Engineering

*The included chart shows the breakdown of projects that we have completed between January 1st 2008 and August 1st 2011.*

DVO currently employs more than 50 engineers, designers, and staff across our multiple offices. As a consulting engineering firm, we feel it’s our primary responsibility to produce accurate drawings and meet deadlines.

With our more than 40 years’ experience to draw from, Dawson Van Orden can exceed your expectations.

DVO has multiple LEED projects that have been awarded certified our greater status and we are currently working on several more projects. DVO employs multiple LEED accredited professionals and perform energy modeling and all LEED paperwork in house.

Engineers at DVO are currently registered in 24 different states including Texas, Colorado, Kentucky, Ohio, Louisiana, New Mexico, North Dakota, Arkansas, Oklahoma, Arizona, Indiana, Montana, and Wisconsin. We are registered through NCEES in order to expedite registrations in additional states.

The multi-discipline approach of DVO provides a significant advantage in project development; from inception through final construction. To build a solid relationship and to complete a quality project requires communication between all members of the design team. Our integrated approach of MEP, structural, and civil design enhances successful and cost effective project development.
Executive In Charge
Jason Dawson, PE, LEED AP

Boeing Project Manager
Bill Niksch, AIA, LEED AP

The Boeing Company

Project Design Team

Architecture
Bill Niksch, AIA
Irvin Carter
Winston Evans

Civil
Danny Martin, PE

Structural
Jon Edwards, PE
Adolfo Aranzales, PE

Mechanical
Wes Daoust, PE

Fire Protection
Darin Garrison

Electrical
Jason Feit, PE

Design Support

Estimating
Craig Glenn
Sung Kang
Rogers-Obrien Construction

Scheduling
Craig Glenn
Rogers-Obrien Construction

Survey
(if required)
Gorrondona & Associates

Geotechnical
(if required)
Terracon Consulting Engineers

Quality Control & Construction Administration

Richard Merz
Robert Alford
William H. Niksch, AIA, LEED AP
Vice President – Industrial Facilities
bniksch@dvoeng.com

As Vice President of Dawson Van Orden (DVO) and team leader of our Industrial Facilities Division, Mr. Niksch has overall responsibility for marketing and project management for all industrial projects designed by DVO. His background provides a solid base for meaningful understanding of management, technical, schedule and cost considerations which must be optimally addressed in order to achieve a successful building project.

Previous Work Experience:
The Austin Company – Houston TX
25 years working as Architect, Project Manager and General Manager performing design, engineering, and construction of industrial facilities.

AECOM – Houston, TX
2 years as Senior Vice President and General Manager after the Southwest Region (Houston) office was acquired by AECOM.

Burns & McDonnell – Houston, TX
5 Years as Regional Aviation and Facilities Manager responsible for managing architectural and engineering of Industrial and DOD Facilities. In mid-2013 Burns & McDonnell decided to no longer offer building design services from the Houston, TX location, and Mr. Niksch elected to leave with the Architectural group and join the current firm of Dawson Van Orden and create Element AEC, rather than relocate to Kansas City where these services would now be performed.

Related Experience
Mr. Niksch has specialized in design, engineering, and construction of industrial, DOD, and aviation projects including aircraft maintenance and painting facilities. The following projects specifically focus on aviation related projects:

Specific Boeing Experience:
The Boeing Company
San Antonio, TX
Project Manager for Design-Build services to renovate and modify Boeing’s Chemical Strip Hangar at the San Antonio depot. Revised HVAC system to cross-flow system with once-thru air, and developed direct piping system for liquid waste. Provided new regulatory compliant boiler room and new fire retardant cellulose insulation and floor coatings in hangar.

The Boeing Company
San Antonio, TX
Project Manager for feasibility study and preliminary design and estimating services for deficiency identification and modifications to existing paint hangar at the San Antonio depot. Solutions were defined to address friable duct liner, inadequate temperature control and airflow, and lighting levels.

Expertise
• Project Management and Controls
• Design-Build Project Delivery
• Energy Conscious Design
• Project Management

Education
• Master of Architecture – University of Illinois
• Master of Business Administration – University of Illinois

Organizations
• Design Build Institute of America
• American Institute of Architects

Professional Certificates
• NCARB Certified
• LEED Accredited Professional

Registration
• Registered Architect, 1985
• Licensed Professional Architect – Texas, Louisiana, Mississippi, Oklahoma, New Mexico, Arkansas, Georgia, Alabama, Florida, North Carolina, South Carolina, Arizona, Iowa, Illinois, Pennsylvania, Ohio, Michigan

Total Years of Experience
36
Boeing Defense and Space Group
El Paso, TX
Renovation of three existing buildings totaling over 365,000 SF to accommodate a consolidation of operations from three separate facilities. Facility finishes and HVAC systems were required to maintain a Class 100,000 – 300,000 particulate count due to the nature of electronics manufacturing and military standards. Project was extremely schedule sensitive.

Services: Design-Build

Other related aviation experience:
Texas Air National Guard
Ellington Field, TX
Task Force Project Manager and Lead Architect for multiple projects for the Texas Air National Guard at Ellington Field, TX. Representative projects within this IDIQ were:

TFI Upgrade – UAV Maintenance Hangar
Ellington Field, TX
Project consisted of programming, preliminary design, cost estimating, preparation of construction documents, and A/E post design services during construction for the upgrade and renovations to an existing F-16 maintenance hangar for conversion to support the UAV/Predator mission. Project consisted of full exterior renovations including new roofing systems, new hangar doors, new AT/FP compliant glazing systems, and upgrades to exterior wall systems, doors, and site development. Interior renovations included complete demolition and replacement of all administrative areas, restrooms, lockers, and support facilities located on the second floor support areas. Maintenance shops on the first floor support areas were also completely demolished and replaced. New HVAC systems were provided for all areas. New Electrical service entrance, distribution systems and communications systems were provided. New Fire Protection systems, including HEF systems for the hangar bay areas were provided within the scope of this project. A new 5-ton bridge crane was provided in the hangar bay, with associated structural modifications. Existing chiller piping was utilized to the greatest extent possible. The project was designed to achieve LEED Silver certification.

Hurricane Ike Repairs and Facility Renovations – Various Facilities
Ellington Field, TX
Project consisted of inspections, assessments, design, and preparation of Design Build Bridging documents for extensive interior and exterior repairs to 45 separate structures for the Texas Air National Guard at Ellington Field including the Squadron Operations Facility and Command Headquarters. Included within the scope of these repairs were extensive roof replacements, interior repairs and renovations, repairs and replacements of HVAC and electrical systems. Direct responsibilities included design services and organization and management of multiple facilities projects into three separate design-build contracts. Projects were completed in 2009 on an extremely aggressive schedule.

Relocate 272nd Engineering Installation Squadron
Ellington Field, TX
Project consisted of converting a former rocket munitions storage facility into new offices, shops, and support areas for the 272nd Engineering Installation Squadron. The functional requirements for the new facility differed significantly from the new intended use, and required opening up the interior by creating openings in existing concrete blast resistant bunker walls. Heavy steel blast doors were removed and replaced with curtain walls and glazing to allow daylighting per LEED principles. Design services included programming, preliminary design, cost estimating, construction documents and construction administration for selective demolition, complete interior renovations, structural modifications, meeting Anti-Terrorist / Force Protection (AT/FP) standards, new HVAC, plumbing, fire protection, electrical distribution and communications systems. A new sloped standing seam metal roof was installed over an existing flat roof along with other significant exterior upgrades to bring the facility to base standards.
Squadron Operations Facility
Ellington Field, TX
Project consisted of a comprehensive renovation to accommodate a change of facility function. The building will now house UAV Squadron Operations facility to support its two (2) Combatant Command (COCOM) missions consisting of the Base's 12, PAA, MQ-1B Predator aircraft combat mission. Functional areas include Predator's group, squadron, support command sections, and weather support operations. Spaces in the building include command, administration, training, a briefing room and a media center. Common areas include a breakroom and restrooms with integrated locker/shower areas.

In addition to complete interior architectural renovations, building exterior renovations include upgrades to all windows, doors and wall surfaces to meet current Anti-Terrorism/Force Protection requirements, new standing seam metal roof system, complete new HVAC, fire protection, electrical, lighting, and communications systems.

National Aeronautics and Space Administration (NASA)
Johnson Space Center and Ellington Field, TX
Project manager and lead architect for eight separate projects for NASA at the JSC and Ellington Field sites including site electrical distribution, a new E-85 fueling station, upgrade/installation of new HEF fire protection systems in aircraft hangars at Ellington Field, upgrades/expansions in campus central utility plant, and upgrades to the campus wide fire alarm system.

California Air National Guard – New Predator Beddown FTU / LRE Site
Victorville, CA, March AFB
Project Manager and lead architect of new 17,500 SF aircraft maintenance hangar to support an MQ-1 Predator training mission with administrative and backshop support areas. Responsibilities included overall management of design team, conducting on-site design charrettes, coordination and management of local airport authority, preparation of construction documents and construction administration services. Facility designed to support beddown and filed training of MQ-1 predator missions, and included 175 ft. clear-span structure with standing metal seam roof and metal panel siding. Hangar bay included high expansion foam fire protection system for fueled aircraft. Extensive site development included apron paving, taxiway paving, and support areas for aircraft run-up and control equipment.

C5-A Corrosion Control Paint and De-Paint Hangars
Robins AFB, Georgia
Project Principal and lead architect for a 250,000 SF facility capable of painting and abrasive stripping of C-5A aircraft. Responsibility for design, engineering, and construction of the $75 MM facility performed under Two Phase Design- Build procurement for the COE District.
Services: Design-Build

C-17 Corrosion Control Facility
Charleston AFB, South Carolina
Project Principal and lead architect for an $18 MM, 64,000 SF Corrosion Control Facility for C-17 aircraft; 100% filtered outside air (once-through) horizontal laminar flow air ventilation system; overhead telescoping maintenance platforms (with utilities); breathing air system; High Expansion Foam fire suppression system; related shops and support amenities. Performed under Two Phase Design- Build procurement for NAVFAC Southern Division.
Services: Design-Build

Aircraft Completions Hangar – Kelly USA / Port of San Antonio
San Antonio, Texas
Principal-in-Charge and lead architect for a $14 MM, 120,000 SF Aircraft Completions Hangar for 747 / 767 aircraft. Project was developed for Gore Design Completions as a tenant at Kelly USA. Key component was an aggressive schedule which called for induction of first aircraft within 10 months of project inception.
Services: Design-Build
Depot Corrosion Control Aircraft Strip Facility
Tinker AFB, Oklahoma
Project Principal and lead architect for a $22 MM, 70,000 SF Paint Strip Facility for military aircraft up to the B-52H in size; 100% filtered outside air (once-through) horizontal laminar flow air ventilation system; overhead telescoping maintenance platforms (with utilities); breathing air system; High Expansion Foam fire suppression system; related shops and support amenities. Facility includes process equipment for paint removal utilizing both chemical (wet) strip and dry strip with DMSS (Bead Blast) Systems utilizing a high efficiency “Air Wall” dust collection system.
Services: Design-Build

The Dee Howard Company (San Antonio Aerospace)
San Antonio, Texas
Project Principal and lead architect for a 385 ft. clear span aircraft maintenance hangar sized for two wide body jet aircraft plus associated shops and office area, totaling 122,000 SF.
Services: Design-Build

Chrysler Technologies Airborne Systems (L3 Communications)
Waco, Texas
Principal-in-Charge and lead architect for the design, engineering and construction of a 120,000 SF maintenance/corrosion control hangar with AFFF fire protection systems for C-5A aircraft.
Services: Design-Build

Tactical Fighter Aircraft Paint Facility
Tulsa, Oklahoma
Principal-in-Charge and lead architect for the preliminary design and detailed engineering of a military aircraft hangar. This project provided an environmentally controlled paint hangar for an Advanced Tactical Fighter Aircraft (AFTA). The AFTA Hangar included a new fire protection system for the facility.
Services: Design-Build

Vought Aircraft Industries, Inc.
Dallas, Texas
Lead architect and project manager for Master Planning, Preliminary Design, Construction Documents, Preconstruction Services for new 650,000 SF Composites Manufacturing Facility to support production of components for the B-2 Stealth Bomber program.
Services: Design, Engineering, Preconstruction planning

Vought Aircraft Industries, Inc.
Dallas, Texas
New 100,000 SF Dye Penetrant Inspection facility. Services: Design and Engineering

American Airlines Maintenance Base
Tulsa, Oklahoma
Design and engineering of renovations and upgrades to metal finishing and plating shop at the Tulsa Aircraft Maintenance Base.
Services: Design and Engineering
Jason Dawson, P.E., LEED AP  
Principal  
jdawson@dvoeng.com

Jason is President of Dawson Van Orden. and functions as team leader of the engineering division of the company. Jason has a strong background in mechanical engineering and equipment acquired while working with The Trane Company in Lexington, Kentucky and in Houston, TX and with The Big Ass Fans Company in Lexington, Kentucky. He specializes in industrial facilities and has been the project manager and/or the engineer of record on over 100 projects a year for the past 7 years. A sample of the projects Jason has been involved in are the following:

**SASOL North America**  
Lake Charles, LA  
Renovations and Expansion of East Control Building to accommodate large plant expansion requiring additional control equipment and personnel.  
Services: Complete Design

**SASOL North America**  
Lake Charles, LA  
New 32,000 SF R&D Laboratory expansion at a chemical plant site. This is a repeat client from the former Austin Company. DVO performed design development and established a GMP by teaming with a qualified contractor. DVO and Vaughn Construction are performing the project on a Design-Build Basis.  
Services: Complete Design and Teaming with Vaughn Construction to perform project on a Design Build basis under a single contract.

**SASOL Chemical Company**  
Lake Charles, LA  
New 80,000 SF Research and Development Laboratory and Administrative Office facility located at a Petrochemical Plant site.  
Services: Design-Build

**RBC Bearings**  
Houston, TX  
New 80,000SF manufacturing facility with 10,000SF attached office. Air-Cooled chiller system with 40% relative humidity requirement and plate exchanger to handle process cooling of equipment.  
Services: MEP Design
Criterion SD
Baton Rouge, LA
New 50,000 SF Warehouse, Manufacturing & Office.
Services: MEP Design.

TPCO Pipe Plant
Gregory, TX
Ground up $25,000,000 heat treatment facility in south Texas for the Tianjin Pipe Company. Required multiple coordination trips to Tianjin, China.
Services: Design Build Project. MEP Design.

TENARIS Heat Treat Facility
Conroe, TX
Designed new exhaust system for production cooling of metal bearings.
Services: Design Build. ME Design.

Chem-One Storage Facility
Houston, TX
64,000 SF Office and Storage facility for Chem-One. Project achieved LEED Silver status.
Services: MEP Design and LEED Documentation.

Alaro Amphitheater
Jefferson, LA
$8,000,000 Amphitheater in south Louisiana included all ancillary buildings.
Services: MEP Design.

Cumberland Cellular
Columbia, KY
New Office and Service building for Cumberland Cellular.
Services: MEP Design.

Iron Mountain
Tulsa, OK
Renovation and expansion of data storage facility.
Services: MEP Design.

Key Energy
Tioga, ND
New 15,000SF Maintenance facility. Project utilized in floor heating from boiler and high velocity low speed fans (Big Ass Fans).
Services: MEP Design.

Saddle Butte Pipeline Maintenance Building and Offices
McKenzie County, ND
New campus in western ND that included multiple maintenance buildings and a large office building.
Services: MEP Design.

Hobbs ALS Pumping Unit Services II
Hobbs, NM
New pumping facility.
Services: MEP Design.
Patriot Proponants
Guion, AK
New 32,000SF office and mining facility.
Services: MEP Design.

Crowly’s Houston
Houston, TX
New 100,000SF Manufacturing & Warehouse facility with 24,000SF office. Pursuing LEED Certification. Utilized High Volume Low Speed Fans (Big Ass Fans).
Services: MEP Design and LEED Documentation.

ELF’s Houston
Houston, TX
New 45,000SF Manufacturing & Warehouse facility with 15,000SF office. Pursuing LEED Certification. Utilized High Volume Low Speed Fans (Big Ass Fans).
Services: MEP Design and LEED Documentation.

Enduro Composites
Houston, TX
New 62,000 SF Manufacturing facility with 10,000SF office.
Services: MEP Design.

Texas Scenic
San Antonio, TX
New 40,000SF Manufacturing facility with two-story 30,000SF office and show room. Utilized High Volume Low Speed Fans (Big Ass Fans).
Services: MEP Design.

Atlas Copco
Houston, TX
New 75,000SF Manufacturing & Warehouse Facility with 20,000SF Office. Pursuing LEED Certification. Utilized High Volume Low Speed Fans (Big Ass Fans).
Services: MEP Design and LEED Documentation.

KTN Underwood
LaPorte, TX
370,000SF Warehouse and Manufacturing facility.
Services: MEP Design.

Weatherford
Alice, TX
New 40,000SF Manufacturing & Office Building.
Services: MEP Design.
Richard Merrz
rmerz@dvoeng.com

As Manager of Engineering of Dawson Van Orden (DVO) and team leader of our HVAC and Plumbing Division, Mr. Merz has overall responsibility for Quality Control and project management for all HVAC and Plumbing projects designed by DVO. His background provides a solid base for meaningful understanding of management, technical, schedule and cost considerations which must be optimally addressed in order to achieve a successful building project.

Previous Work Experience:
Redding, Linden, Burr – Houston TX
KCI Technologies – Houston, TX

Experience:
Harris County Central Plant – Houston, TX
Federal Detention Center – Houston, TX
Enron Field (Minute Maid Park) – Houston, TX
Liberty Library – Liberty, TX
Urban League HQ – Houston, TX
1101 McKinney Renovation – Houston, TX

Kingwood College – Kingwood, TX
Texana Campus – Rosenberg, TX
Rice University – Houston, TX
Sharpview Head Start – Houston, TX
Montgomery College – Houston, TX

St. Vincent de Paul Catholic Church – Houston, TX
Congregation Birth Shalom – Houston, TX
Wheatland United Methodist Church – Dallas, TX
Sacred Heart CoCathedral – Houston, TX
Atascocita Lutheran Church – Houston, TX
Templo De Porder y Gozo – Houston, TX

Expertise
• Project Management
• HVAC Design
• Plumbing Design

Education
• BS – Stephen F. Austin State University

Organizations
• ASPE (Past President)
• ASHRAE
• ABPA
• NFPA
• ASSE

Professional Certificates
• CIPE
• Cert. Master Plumber
• Cert Air Conditioning and Refrigeration Contractor

Total Years of Experience
40
Robert Alford
ralford@dvoeng.com

Manage and Supervise Plumbing and HVAC commercial projects ranging in size exceeding $20,000,000. A daily liaison between vendors, suppliers and subcontractors. Responsible for material and equipment purchasing, change orders, project coordination, scheduling, direction of labor force and other management duties.

2014 – Present Plumbers Local 68 – Roof replacement and upgrades to existing HVAC equipment and systems.
2014 – Present NASA – HVAC Renovations to existing facility
2013 - 2014 YES Southwest Gym – Plumbing and HVAC renovations and Design Assist
2013 - 2014 YES Northside Campus – Plumbing and HVAC renovations and Design Assist
2013 - 2014 YES White Oak Campus Phase I – Plumbing and HVAC renovations and Design Assist
2013 USAR Plumbing Upgrades – Plumbing renovations to existing facility in Conroe, TX.
2013 YES 5th Ward Campus Phase I – Plumbing and HVAC renovations and Design Assist
2013 3033 West Alabama – Plumbing and HVAC renovations and design assist.
2013 Univ. of Houston ERP-9 – HVAC renovations.
2013 Shell Information Center Storm Mitigations – HVAC and Plumbing renovations to existing facility.
2013 UTMB Temp Central Sterile – Plumbing and HVAC installation.
2013 UTMB Coffee Shop – Plumbing and HVAC renovations.
2012 Hilton Hobby Airport – HVAC renovations to existing facility.
2012 YES Benson Campus Phase II – Plumbing and HVAC renovations and Design
2012 - 2013 YES Harwin – Plumbing and HVAC installation.
2012 Shell Information Center – HVAC renovations to existing facility.
2012 USAR HVAC Upgrades – HVAC renovations to existing facility in Beaumont, TX.
2012 YES 9000 West Belfort – Plumbing and HVAC renovations
2011 Univ. of Houston – Misc Plumbing and HVAC renovations.
2011 - 2012 KIPP Sharpstown Phase III – Plumbing and HVAC renovations and Design
2011 YES East End 5 Classroom Buildings – Plumbing and HVAC installation and Design
2011 - 2012 YES East End Classroom Expansion – Plumbing and HVAC installation and Design
2010 - 2011 YES Benson Campus – Plumbing and HVAC renovations and Design
2010 - 2011 YES West Campus – Plumbing and HVAC renovations and Design
2010 - 2011 YES Southeast Campus – Plumbing and HVAC installation and Design
2006 - Present YES Service All Campus – Plumbing and HVAC
2009 - 2012 MD Anderson – Plumbing and HVAC Services
2011 UTMB Central Sterile – Plumbing and HVAC renovations and Design
2010 UTMB Moody Library – Plumbing renovations
2008 Texas Children's Hospital – Misc. Service projects HVAC and Plumbing
2008 KIPP Polaris - Plumbing and HVAC renovations and Design
2008 KIPP Sharpstown – Plumbing and HVAC renovations and Design
2007 – Present MD Anderson Cancer Center – Misc. renovations and service projects
2006 – 2007 Hotel Za-Za - Plumbing Renovations
2006 – Present KIPP Academy - Service Contracts Multi-Campus locations.
2007 KIPP Spirit College Prep. - Plumbing and HVAC Renovations and Design
2007 KIPP Polaris College Prep. - Plumbing and HVAC Renovations and Design
2007 Univ. of Houston - U. H. - Biomedical Lab Renovation.
2007 Univ. of Texas Health Science Center - Misc. Service projects HVAC and Plumbing

2005 – 2006 MD Anderson Vivarium - Plumbing - Houston, TX.
2005 – 2006 North Cypress Medical Center - Houston, TX.
2004 – 2005 MD Anderson FEMA 404 - Plumbing and HVAC Renovations - Houston, TX.
2003- 2004 UTHSC MSB, Dr. Spoditch Lab, Dr Dragoi Lab, Dr. Eagleman Lab Plumbing and HVAC Renovations, Houston, TX.
2003 - 2004 Rice University, Dr. Kelley and Dr Labinis Lab Plumbing and HVAC Renovations - Houston, TX.
2003 – 2004 Ben Taub General Hospital - Domestic Water pipe Replacement and Med Gas upgrades – Houston, TX.
2001 – 2003 Rice University Martel Hall, Jones Hall, Abercrombie, Brown Hall, Plumbing and HVAC - Houston, TX.
2001 – 2002 Faust Distribution - Plumbing and HVAC – Houston, TX
2001 Five Houston Center - Plumbing and HVAC - Houston, TX.
2001 – 2002 Columbia Medical Center – Plumbing and HVAC – Houston, TX.
1992 – 2001 Childrens Hospital – Plumbing and HVAC – Dallas, TX.
    Hospital Expansion
    Phlebotomy Lab
    O.R. Expansion
    Bright Building
    E.R. Expansion
2001 Methodist Hospital LDR – Plumbing and HVAC – Duncanville, TX.
1999 – 2000 Baylor Hospital LDR – Plumbing and HVAC – Irving, TX.
1998 – 1999 Baylor Hospital LDR – Plumbing and HVAC – Grapevine, TX.
1997 – 1998 Baylor Hospital Immunology – Plumbing and HVAC – Dallas, TX.
1996 Medical Cities Hospital – Plumbing and HVAC – Dallas, TX.
Windston L. Evans
wevans@dwoeng.com

Mr. Evans has managed and participated in the programming, design, preparation of construction documents and construction administration of commercial, institutional, and industrial facilities throughout his career. His extensive experience in aviation and chemical plant facilities provides a strong basis for quality design work.

Previous Work Experience:
The Austin Company – Houston TX
30 years working as Architect, Project Manager and Manager of Business Development performing design, engineering, and construction of industrial facilities.

AECOM – Houston, TX
2 years as Manager of Business Development after the Southwest Region (Houston) office was acquired by AECOM.

Related Experience
Mr. Evans has specialized in design, engineering, and construction of industrial, DOD, and aviation projects including aircraft maintenance and painting facilities. The following projects specifically focus on aviation related projects:

Specific Boeing Experience:
The Boeing Company
San Antonio, TX
Assisted in architectural design for Design-Build services to renovate and modify Boeing’s Chemical Strip Hangar at the San Antonio depot. Revised HVAC system to cross-flow system with once-thru air, and developed direct piping system for liquid waste. Provided new regulatory compliant boiler room and new fire retardant cellulose insulation and floor coatings in hangar.

Boeing Defense and Space Group
El Paso, TX
Renovation of three existing buildings totaling over 365,000 SF to accommodate a consolidation of operations from three separate facilities. Facility finishes and HVAC systems were required to maintain a Class 100,000 – 300,000 particulate count due to the nature of electronics manufacturing and military standards. Project was extremely schedule sensitive.
Services: Design-Build

Other related aviation experience:

C5-A Corrosion Control Paint and De-Paint Hangars
Robins AFB, GA
Project Principal and lead architect for a 250,000 SF facility capable of painting and abrasive stripping of C-5A aircraft. Responsibility for design, engineering, and construction of the $75 MM facility performed under Two Phase Design-Build procurement for the COE District.
Services: Design-Build
C-17 Corrosion Control Facility
Charleston AFB, SC
Project Principal and lead architect for an $18 MM, 64,000 SF Corrosion Control Facility for C-17 aircraft; 100% filtered outside air (once-through) horizontal laminar flow air ventilation system; overhead telescoping maintenance platforms (with utilities); breathing air system; High Expansion Foam fire suppression system; related shops and support amenities. Performed under Two Phase Design-Build procurement for NAVFAC Southern Division.
Services: Design-Build

Aircraft Completions Hangar – Kelly USA / Port of San Antonio
San Antonio, TX
Principal-in-Charge and lead architect for a $14 MM, 120,000 SF Aircraft Completions Hangar for 747 / 767 aircraft. Project was developed for Gore Design Completions as a tenant at Kelly USA. Key component was an aggressive schedule which called for induction of first aircraft within 10 months of project inception.
Services: Design-Build

Depot Corrosion Control Aircraft Strip Facility
Tinker AFB, OK
Project Principal and lead architect for a $22 MM, 70,000 SF Paint Strip Facility for military aircraft up to the B-52H in size; 100% filtered outside air (once-through) horizontal laminar flow air ventilation system; overhead telescoping maintenance platforms (with utilities); breathing air system; High Expansion Foam fire suppression system; related shops and support amenities. Facility includes process equipment for paint removal utilizing both chemical (wet) strip and dry strip with DMSS (Bead Blast) Systems utilizing a high efficiency “Air Wall” dust collection system.
Services: Design-Build

The Dee Howard Company (San Antonio Aerospace)
San Antonio, TX
Project Principal and lead architect for a for a 385 ft. clear span aircraft maintenance hangar sized for two wide body jet aircraft plus associated shops and office area, totaling 122,000 SF.
Services: Design-Build

The Dee Howard Company (San Antonio Aerospace)
San Antonio, TX
Project Principal and lead architect for a Renovation of an existing 80,000 SF hangar to provide painting and chemical stripping operations for aircraft up to 747-400.
Services: Design-Build

Chrysler Technologies Airborne Systems (L3 Communications)
Waco, TX
Principal-in-Charge and lead architect for the design, engineering and construction of a 120,000 SF maintenance/corrosion control hangar with AFFF fire protection systems for C-5A aircraft.
Services: Design-Build

Other Industrial Projects:

SASOL North America
Lake Charles, LA
Renovations and Expansion of East Control Building to accommodate large plant expansion requiring additional control equipment and personnel.
Services: Complete Design
SASOL North America
Lake Charles, LA
New 32,000 SF R&D Laboratory expansion at a chemical plant site. This is a repeat client from the former Austin Company. DVO performed design development and established a GMP by teaming with a qualified contractor. DVO and Vaughn Construction are performing the project on a Design-Build Basis.
Services: Complete Design and Teaming with Vaughn Construction to perform project on a Design Build basis under a single contract.

Schlumberger, Inc
Houston, TX
New 20,000 Chemical treatment manufacturing facility.
Services: Preliminary Design

Valero Energy
Wilmington, CA
New 22,000 SF Product Control and Testing Laboratory at a refinery site.
Services: Design-Build

Valero Energy
Wilmington, CA
Preliminary Design for a new 60,000 SF Maintenance Facility including welding, pipe, electrical, and instrumentation shops with support facilities at a refinery site.
Services: Master Planning and Preliminary Design

Valero Energy
Denver, CO
Design and engineering for a new 16,000 SF Product Control and Testing Laboratory at a refinery site.
Services: Preliminary and Detailed Design

Valero Energy
McKee, TX
Design and engineering for a new 20,000 SF Product Control and Testing Laboratory at a refinery site.
Services: Preliminary Design, Detailed Design, A/E Construction Administration

Diamond Shamrock (Valero Energy)
Three Rivers, TX
Design, engineering, and construction for a new 18,000 SF Product Control and Testing Laboratory at a refinery site.
Services: Design-Build

Flint Hills Resources
Corpus Christi, TX
New 25,000 SF Product Control and Testing Laboratory at a refinery site.
Services: Design-Build

Southwest Research Institute
San Antonio, TX
New 85,000 SF R&D Fleet Laboratory and Administrative Office facility located on Research Campus.
Services: Design-Build

Southwest Research Institute
San Antonio, TX
New multi-phase additions to engine test cell R&D facility located on Research Campus. Additions included large engine test cells, small engine test cells, and administrative office facilities constructed while remainder of facility was required to remain in operation.
Services: Design-Build
Irvin Carter
icarter@dvoeng.com

As Senior Architectural Designer and Senior Production Manager for the Industrial Facilities Group in Houston, TX, Irvin Carter has responsibility for project management and overall coordination of project design and construction document preparation in the Industrial Facilities Group within DVO Engineering. Irvin brings 35 years of experience as an Architectural Designer. His background provides a solid base for meaningful understanding of schematic and technical design, and documentation which must be optimally addressed in order to achieve a successful building project. He has specialized in design, engineering, and construction of facilities for military and private sector clients, refinery and petrochemical support facilities including R&D and QC Labs, Administrative Offices and Control Buildings. Irvin has a wide range of experience with a variety of commercial, industrial and government facilities.

Specific Boeing Experience:

The Boeing Company
San Antonio, TX
Architectural Designer for Design-Build services to renovate and modify Boeing’s Chemical Strip Hangar at the San Antonio depot. Revised HVAC system to cross-flow system with once-thru air, and developed direct piping system for liquid waste. Provided new regulatory compliant boiler room and new fire retardant cellulose insulation and floor coatings in hangar.

Boeing Defense and Space Group
El Paso, TX
Renovation of three existing buildings totaling over 365,000 SF to accommodate a consolidation of operations from three separate facilities. Facility finishes and HVAC systems were required to maintain a Class 100,000 – 300,000 particulate count due to the nature of electronics manufacturing and military standards. Project was extremely schedule sensitive.
Services: Design-Build

Other Related Experience:

SASOL North America
Lake Charles, LA
Renovations and Expansion of East Control Building to accommodate large plant expansion requiring additional control equipment and personnel.
Services: Complete Design

SASOL North America
Lake Charles, LA
New 32,000 SF R&D Laboratory expansion at a chemical plant site. This is a repeat client from the former Austin Company. DVO performed design development and established a GMP by teaming with a qualified contractor. DVO and Vaughn Construction are performing the project on a Design-Build Basis.
Services: Complete Design and Teaming with Vaughn Construction to perform project on a Design Build basis under a single contract.
OG&E – Service Centers – Re-roofing Projects
Oklahoma City, OK
BMcD Architectural Production Coordinator responsible for producing construction documents for the following sites:
- Shawnee Service Center;
  - Main Building and Maintenance building three ply modified bitumen re-roofing.
  - Supply Building metal over metal roof installation.
- Central Service Center metal over metal roof installation.
- Metro Service Center single ply membrane over metal roof installation.

OG&E – Sooner Power Plant – Facility Upgrades
Red Rock, OK
BMcD Architectural Production Coordinator responsible for producing construction documents for the Sooner Power Plant Control Room renovation and renovation and a 4,113sf addition to the Maintenance Shop. Project includes phased scope for designing the 22,500sf Heavy Equipment Maintenance Building.

OG&E – Muskogee Power Plant – Facility Upgrades
Muskogee, OK
BMcD Architectural Production Coordinator responsible for producing construction documents and construction administration assistance for the Muskogee Power Plant Control Room and Administration Building renovations and renovation and a 3,550sf addition to the Maintenance Building. The project also includes re-roofing of the Upper and Lower Turbine Generation Building and multi-level Control Room roofs totaling 104,160sf.

Clorox, Houston – Plasma Design Master Plan
Houston, TX
BMcD Architectural Designer responsible for local code review, permitting requirements and producing master plan drawings for programming phase.

ANG – 149th Fighter Wing Lackland AFB
Addition and Renovation to Aircraft Maintenance Shops
San Antonio, TX
BMcD Architectural Production Coordinator responsible for producing construction documents, for renovation of the existing 24,440sf maintenance facility and addition of an 18,100sf two-story office building with adjacent hangar to house weapons release, avionics and ECM pod facilities.

OG&E – Seminole Power Plant – Upper TG & Lower TG Re-roofing Project
Konawa, OK
BMcD Architectural Production Coordinator responsible for producing construction documents, bid forms and bid instruction documents and construction administration for the Seminole Power Plant – 80,000sf turbine generation building upper and lower re-roofing project.

FHR – Flint Hills Resources Alky Substation – MCC Building
Corpus Christi, TX
BMcD Architectural Production Coordinator for a 480sf MCC building responsible for assisting in the design and production of architectural construction documents to support installation of MCC equipment including building interface with routing of cable tray entrances,

NASA – Ellington Field Foam System for Existing Hangars 135 and 276
Houston, TX
BMcD Architectural Production Coordinator responsible for producing architectural construction documents to support installation of the foam system which included interior renovation in both hangars and addition of a pump room to Hangar 276.
ANG – Hurricane IKE Basewide Repairs for various Existing Facilities
Houston, TX
BMcD Architectural Production Coordinator responsible for producing RFP bridging documents for exterior renovation of Hangar 1382 – Maintenance Facility for Predator Un-manned Aircraft. Performed construction administration duties for basewide IKE repair for various facilities.

AEP – Battery and Inverter Building for Sub Station No. 446
Presidio, TX
BMcD Architectural Production Coordinator for a 8,250sf battery building with a 2,100sf inverter room attached.

TFI – Predator Beddown
March Air Force Base, Victorville, CA
BMcD Architectural Production Coordinator for a 17,000sf pre-engineered metal building housing Predator airplanes for the Air National Guard at March Air Force Base.

272nd Engineering Installation Squadron Building Renovation
Ellington Field, Houston, TX
BMcD Architectural Production Coordinator for a 17,000sf existing rocket facility building renovation. Building renovated to provide office and shop space for the 272nd Engineering Installation Squadron.

Houston Airport Systems
Houston, TX
Design and Engineering Team Leader for Job Order Contract (JOC) Projects for Houston Airport Systems (HAS). Two year, $2MM service contract included design, engineering, renovation and maintenance projects at all terminals and support facilities at Bush Intercontinental Airport, Hobby Airport, and Ellington Field; the three major airport facilities in Houston, Texas.
Services: Scope Definition, Design and Engineering

C5-A Corrosion Control Paint and De-Paint Hangars
Robins AFB, GA
Architectural Production Supervisor for a 250,000 SF facility capable of painting and abrasive stripping of C-5A aircraft. Responsibility for architectural construction documentation and construction administration of the $75 MM facility performed under Two Phase Design-Build procurement for the COE Savannah District.
Services: Design-Build

C-17 Corrosion Control Facility
Charleston AFB, SC
Architectural Production Supervisor for a $18 MM, 64,000 SF Corrosion Control Facility for C-17 aircraft; 100% filtered outside air (once-through) horizontal laminar flow air ventilation system; overhead telescoping maintenance platforms (with utilities); breathing air system; High Expansion Foam fire suppression system; related shops and support amenities. Performed under Two Phase Design-Build procurement for NAVFAC Southern Division.
Services: Design-Build

Depot Corrosion Control Aircraft Strip Facility
Tinker AFB, OK
Architectural Production Supervisor for a $22 MM, 70,000 SF Paint Strip Facility for military aircraft up to the B-52H in size; 100% filtered outside air (once-through) horizontal laminar flow air ventilation system; overhead telescoping maintenance platforms (with utilities); breathing air system; High Expansion Foam fire suppression system; related shops and support amenities. Facility includes process equipment for paint removal utilizing both chemical (wet) strip and dry strip with DMSS (Bead Blast) Systems utilizing a high efficiency “Air Wall” dust collection system.
Services: Design-Build
Depot Corrosion Control Aircraft Paint Facility
Tinker AFB, OK
Architectural Design Assistant and Production Coordinator for a $14 MM, 90,000 SF Depot Corrosion Control Facility for C-17 aircraft; 100% filtered outside air (once-through) horizontal laminar flow air ventilation system; overhead telescoping maintenance platforms (with utilities); breathing air system; AFFF fire suppression system; related shops and supports amenities.
Services: Design-Build

The Dee Howard Company (San Antonio Aerospace)
San Antonio, TX
Architectural Design Assistant and Production Coordinator for a 385 foot clear span aircraft maintenance hangar sized for two wide body jet aircraft plus associated shops and office area, totaling 122,000 SF.
Services: Design-Build

The Dee Howard Company (San Antonio Aerospace)
San Antonio, TX
Architectural Design Assistant and Production Coordinator for the Renovation of an existing 80,000 SF hangar to provide painting and chemical stripping operations for various size aircraft up to 747-400 series.
Services: Design-Build

Vought Aircraft Industries, Inc.
Dallas, TX
Architectural Design and Production Assistant responsible for preparing construction documents for new aircraft component paint booths and support areas. Facility contained a unique variable recirculation system to conserve energy and reduce emissions.
Services: Design and Engineering

Texas State Capitol Extension & Renovation
Austin, TX
Architectural Job Captain for the underground mall extension and horizontal and vertical circulation connections to the existing Historical Texas State Capitol. The State Capitol remained occupied throughout the construction and renovation phases of the $51MM project. Duties included project coordination of various building circulation components with structural, electrical, plumbing, and drainage systems. Supervised construction document production team and performed construction administration duties.
Services: Design, Engineering and Construction Administration

Veterans Administration Medical Center Complex
Houston, TX
Design and Production Team member for the six-story 535 bed hospital building with interstitial medical services levels. In addition to typical hospital facility operations, the project included design of an animal research lab, retrofit and renovation of existing support buildings, demolition of the old hospital and perimeter fence and site entrances design.
Services: Design, Engineering and Construction Administration
Jason Feit, P.E., LEED AP
Electrical Department Head
jfeit@dvoeng.com

Jason serves as the Electrical Department Leader and Project Manager, directly managing 3 other electrical engineers and draftsmen at DVO. He has primary responsibility for project management and overall design and coordination of electrical engineering and construction document preparation for electrical work within DVO Engineering. His background provides a solid base for meaningful understanding of schematic and technical design, and documentation which must be optimally addressed in order to achieve a successful building project. He has specialized in design, engineering, and construction of a variety of facilities for military and private sector clients, refinery and petrochemical support facilities including R&D and QC Labs, Office and Control Buildings, and a variety of commercial, industrial and government facilities.

EXPERIENCE
12/96-12/00 Design Engineer at Toshiba International Corporation (motor and industrial manufacturer), in Houston, TX.

1/01-10/06 Design Engineer/Project Manager at J.F. Thompson (mechanical and electrical, civil, structural consulting engineering firm acquired by AECOM in 2006) in Houston, TX

10/06-5/14 Principal at Rice & Gardner Consultants (mechanical and electrical consulting engineering firm) in Houston, TX

5/14-Present Electrical Department Leader/Project Manager of Dawson Van Orden (Civil, structural, mechanical, electrical and plumbing consulting engineering firm) in Houston, TX

REPRESENTATIVE PROJECTS
The Boeing Company
Clear Lake, TX
On-call electrical engineering services on a variety of projects at Boeing’s NASA facilities in Clear Lake. Assignments ranged from office build-outs to generator and other industrial applications.

SASOL North America
Lake Charles, LA
Renovations and Expansion of East Control Building to accommodate large plant expansion requiring additional control equipment and personnel. Services: Complete Design

SASOL North America
Lake Charles, LA
New 32,000 SF R&D Laboratory expansion at a chemical plant site. This is a repeat client from the former Austin Company. DVO performed design development and established a GMP by teaming with a qualified contractor. DVO and Vaughn Construction are performing the project on a Design-Build Basis. Services: Complete Design and Teaming with Vaughn Construction to perform project on a Design Build basis under a single contract.
SASOL North America – Fluor, Inc.  
Lake Charles, LA  
Complete design and engineering services for East and West Quality Control Laboratories. New grassroots 17,000 SF Laboratory and complete retrofit of 21,000 SF existing Quality Control Laboratory to support $6.6 Billion plant expansion in Lake Charles, LA.

OTHER INDIVIDUAL PROJECT EXPERIENCE – ELECTRICAL ENGINEERING

INDUSTRIAL

Team Alloys  
Sasol North America  
Argentum  
SGS Mineral  
Elwood Rose Machine  
Command Energy  
Varel International  
Luftkin Automation  
Trelleborg  
Hanson Pipe & Precast  
Clorox – Houston  
Anheuser-Busch

FACILITIES

Boeing  
Fluor Corporation  
NASA  
Houston Independent School District  
Fort Bend Independents School District  
Stafford Municipal School District  
Houston Community College  
Texas A&M University  
University of Houston  
DaVita Dialysis  
Valero  
Exclusive Furniture

MUNICIPAL

City of Houston – Emancipation Park  
City of San Antonio – Historic City Hall Electrical Service Upgrade  
City of Houston – 61 Riesner generator addition  
City of San Antonio Police Facility  
City of Houston East Water Purification Plant  
City of Seabrook City Hall
Wesley Daoust, P.E., LEED AP
M/P Department Head
wdxoust@dvoeng.com

Wes is a Mechanical Engineer and the Mechanical department head for Daw-son Van Orden, Inc. Wes has a strong background in mechanical engineering with 14 plus years in the industry. He has designed projects from elementary schools to industrial laboratories and everything in-between including office build outs, breweries, churches retail strip centers and commercial development to name a few.

SASOL North America
Lake Charles, LA
Renovations and Expansion of East Control Building to accommodate large plant expansion requiring additional control equipment and personnel.
Services: Complete Design

SASOL North America
Lake Charles, LA
New 32,000 SF R&D Laboratory expansion at a chemical plant site. This is a repeat client from the former Austin Company. DVO performed design development and established a GMP by teaming with a qualified contractor. DVO and Vaughn Construction are performing the project on a Design-Build Basis.
Services: Complete Design and Teaming with Vaughn Construction to perform project on a Design-Build basis under a single contract.

SASOL North America
Lake Charles, LA
Master planning and preliminary design for new Production Support Facility for new chemical production facilities related to a future multi-billion dollar GTL facility.
Services: Preliminary Design and Estimating

Klein Intermediate School
Klein, TX
Design of an 8,750 square foot library addition to the existing school. Work included a stand-alone packaged chiller/pump for the new addition with a chilled water variable air handling unit using electric heat.

Westside Relief Elementary School
Houston, TX
Design of a new 75,300 square foot elementary school with a combination of variable air volume and constant volume air handling units. The central plant consisted of two 165 ton air cooled chillers and two 1,200 MBH copper tube boilers.

Drew Intermediate School
Crosby, TX
New design of an 87,700 square foot educational facility. Work included new cooling and heating central plant and science fume hoods.
Jon Edwards, P.E.
Structural Department Head
jedwards@dvoeng.com

Jonathan has 9+ years of design and project management experience. He has also performed numerous field observations over the same time frame. Throughout his career, Jonathan has worked on both small and large projects that have utilized all the major building materials; wood, steel and concrete. With his diverse background, he has gained a firm understanding of what it takes to complete a successful project from the early development stages all the way though the completed construction. Furthermore, his experience in the field has made him more knowledgeable and aware of issues that generally hinder the erection of the structure, thus providing for a more seamless construction process. His work consists of projects for residential, commercial, industrial and educational purposes.

Expertise
- Concrete Design
- Steel Design
- IBC Codes
- Wood Design

Education
- Texas Tech University - Bachelors of Science in Civil Engineering
- Texas Tech University - Masters of Science degree in Civil Engineering with an emphasis on structural design

Professional Registrations
- PE - Texas

Total Years of Experience
9

Projects:

- **Kingwood Office Building**
  Kingwood, TX
  12,500 total sq. ft.
  2 Story steel framed office building with brick facade

- **Cactus Commercial Building**
  Houston, TX
  7,500 sq. ft.
  Single story steel framed with parapets ranging up to 9’ in height

- **Reserve at Park Ten**
  Houston, TX
  6 story mid-rise office building (125,000 total sq. foot)
  Post-tension elevated concrete decks with concrete columns and shear walls

- **First Baptist Church**
  Porter, TX
  18,000 sq. ft.
  3 Story steel framed addition to existing structure used for classrooms/offices

- **Shadow Lake Retail Center**
  10,000 sq. ft.
  Single story steel framed structure

- **Gateway at Spring Valley**
  Houston, TX
  5 story office building with retail at bottom floor (100,000 total sq. foot) with an adjacent pre-cast parking garage
  Steel framing with 2 of the four sides being tilt wall panels.

- **Dr. Stratmann Office Building**
  Houston, TX
  12,500 sq. ft.
  Used a combination of wood and steel materials for both gravity framing and lateral bracing.
Adolfo Aranzales, P.E.
Project Engineer - Structural Department
aaranzales@dvoeng.com

As Project Engineer, Mr. Aranzales is responsible for overseeing the structural design of commercial and industrial facilities. Tasks included performing and reviewing engineering calculations, delegating work to production designers, approving construction documents, coordinating information with client, and managing the construction administration phase.

Previous Work Experience:
Amec Foster Wheeler KUSA Corporation – Houston TX
Civil Structural Engineer

Foster Wheeler
Civil Structural Engineer

Garza +McLain Structural Engineers, Inc.
EIT

Related Experience
Mr. Aranzales has proven experience as a Structural Engineer performing design with a variety of projects:

Formosa Plastics LS/QA & PD/PS Laboratory
Point Comfort, TX
This project consisted in the design of a new laboratory added to the already existing 13 production units at Formosa's 1600 acre petrochemical complex. Main responsibility included the structural design of the facility intended to house private offices, a morphology and R&D lab, a mechanical testing lab, chemical drum storage areas, and all the required mechanical equipment.

Quality Control Laboratory, Delek Refining, LTD
Tyler, TX
This project was developed to aid Delek's Tyler refinery complex with a new quality control laboratory facility. The facility was designed as a steel building bearing on spread footings with numerous special structural requirements such as support for cranes, safe rooms designed for blast loads, and a structural ceiling grid for hanging mechanical equipment.

Reliance DTA Coke Drum Replacement, Reliance Industries Limited Jamnagar, India
Participated in the structural review of the existing coker unit for all stages of the drum replacement. Tasks achieved included; design of beam splices, analysis of existing connections, Staad.Pro modeling, design of temporary foundation, check of colleagues calculations, heavy-lift analysis, construction support, and design of strengthening.

Lyondell Debottleneck Plant Revamp, Lyondell Basell
Corpus Christi, TX
Scope of work for this project included modifying and expanding an existing cold fractionation pipe-rack. The design work included the structural assessment of the existing members along with the necessary strengthening and the design of new framing levels.
Enterprise PDH-Propane Dehydrogenation Unit, Enterprise Products  
Mont Belvieu, TX  
The project consisted of detail design and construction of a propane dehydrogenation plant. Design work included pipe-racks, vessel footings, table-tops for compressors, steel support for pipes up to 72-in diameter, reactor anchoring plates, base plates, pile foundations, bracing connection analysis, and embed plates with headed stud anchors.

Horn Academy  
Bellaire, TX  
This 93,000 sqft school consisted of a steel framing building with multi-use spaces. Tasks included the design of moment and braced frames for the lateral system, design of the composite floor beams and roof framing, design of footings, and site inspections.

Office Building 15  
Houston, TX  
This building was designed as an un-braced concrete framed structure with moment frames as MWFRS. Scope of work included the design of reinforced concrete columns, concrete floor joists, and pre-stressed girder beams.

Noble Subsea  
Houston, TX  
This industrial building was designed as a tilt-up building with concrete panels acting as load bearing and shear walls. Responsibilities included the design of wall reinforcement, design of all embedded plates and connections, roof framing, and belled drilled piers.
Danny Martin, P.E.
Civil Department Head
dmartin@dvoeng.com

Danny Martin has 22 years of design experience in all aspects of land development. He started his career designing site drainage for service stations and fast food restaurants in the Houston area. His experience then grew to include multiple City of Houston public infrastructure projects. His focus then shifted to large industrial parks. These projects included the design and layout of the entire park and also included the individual site design. Some of the buildings were in excess of 1 million square feet. Some of these parks also included the design and coordination of rail. Recently, in addition to small to large site development projects, his experience has grown to include preliminary budgets and design of large chemical plant expansions.

Underwood Business Park
La Porte, TX
200 Acre industrial Park
Multiple buildings from 100,000 sf to 900,000 sf
Design and layout of entire business park including rail service, road, public infrastructure, drainage analysis and utilities.

Battleground Business Park
Deer Park, TX
34 Acre industrial Park
Multiple buildings from 50,000 sf to 104,000 sf
Site design of 9 industrial buildings.

Deerwood Glen Business Park
La Porte, TX
150 acre business park
Layout and design of all infrastructure for park including roads, drainage and utilities
Site design of 12 office and industrial buildings

Expertise
• Site design
• Storm Drainage design
• Detention analysis
• Floodplain mitigation analysis
• Railroad design
• Public utilities

Education
• Bachelor of Science – Civil Engineering University of New Brunswick

Professional Registrations
• PE – Texas
• P.Eng – New Brunswick, Canada

Total Years of Experience
22
Darin Garrison

Darin has been in the Fire Protection Engineering field with various firms since graduation from Oklahoma State University in 1996. He has experience in the design of fire protection systems under the supervision of PE's for a variety of facility types. Previous employers include Universal Sprinkler Corporation, Western States Fire Protection and Gulf States Fire Protection. Primary duties include drafting, design, and preparation of fire sprinkler drawings including calculations. Darin also has experience in conducting Fire Protection flow testing.

Representative Experience:

- American Eagle Warehouse – Houston, TX
- Civic Center Tunnels – Houston, TX
- Compaq Computers – Houston, TX
- Eagle USA Airfreight – Houston, TX
- St. Luke’s Hospital – Houston, TX
- 8090 Kempwood Warehouse – Houston, TX
- World Houston Distribution II – Houston, TX
- Continental Airlines Maintenance Hangars – Houston, TX
- Anadarko Corporate Hangar – Houston, TX
- Enterprise Jet, Houston, TX
- Katy Mills Mall, Katy, TX
- MD Anderson Faculty Building – Houston, TX
- Beltway Lakes Office Towers – Houston, TX
- 717 University Residence – College AStation, TX

Expertise

- Fire Protection Systems
- Calculations

Education

- Bachelor of Science in Fire Protection and Safety Engineering Technology – Oklahoma State University

Professional Registrations

- EIT
- PE License Application Completed

Total Years of Experience

20
Bid Item 5 – Subcontractors

- Firm Description – Rogers-O’Brien Construction
- Staff Profiles for Rogers- O’Brien Personnel

Project Responsibilities:

- Cost Estimating
- Project Schedule
- Constructability Reviews of Design
Our History

Since 1969, Rogers-O’Brien has firmly established itself as a leading general contractor in Texas by providing a wide range of preconstruction and construction management services. Our unique approach consistently delivers high quality buildings in a variety of market sectors, exceeding the most demanding expectations.

Ethics and integrity serve as the cornerstones for everything we do, and the adherence to these values has earned us a solid reputation. The commitment to our customers is evident in the dedication of our people, our open communication policies, pioneering technology, operational diligence and continued process improvement.

Rogers-O’Brien is family-owned, with three generations actively involved in the company’s operations. The family attitude extends throughout our strong management team, many of whom rose up through the ranks to management. To our offices in Dallas, Austin and Houston, we have also actively recruited a forward-thinking new generation to energize us with knowledge of new tools, techniques and approaches to continually improve the way we deliver services. Others who have joined us in the past decade are seasoned construction professionals, hand-picked for their ability to grow the firm. This controlled growth approach has resulted in $1.5 billion in construction volume over the past five years.
Craig has over 30 years of construction supervision experience, specifically oversight of complex critical structure modifications and complex systems in active, highly secure facilities. Craig maintains a hands-on approach and works collaboratively with the entire team to achieve and exceed project goals and client’s expectations. His in-depth attention to detail and extensive experience with complex project are a few of his greatest strengths. Craig’s commitment and dedication makes him a valued partner to clients.

Experience:

**GE Building C Structural Repairs**
Houston, Texas  
*Extensive rehabilitation of structural steel components for support of bridge cranes, within an operating manufacturing facility, $4M*

**Two Houston Center**
Houston, Texas  
*Major superstructure rehabilitation, occupied 40 story high-rise facility.*

**919 Milam Garage Conversion**
Houston, Texas  
*Extensive structural modifications to occupied high-rise facility to convert 4 floors into a parking garage, $10M*

**Houston First Corporation**
Houston, Texas  
*Extensive expansion and upgrades to active George R Brown Convention Center, new 10 story office building and 1,900 car garage, structural modification to existing active high-rise parking garage to create a transit center, 6 city block roadway/entertainment plaza/hardscape, $156M*

**MD Anderson Cancer Center**
Houston, Texas  
*Research Facility (Zayed)*  
*New 615,000 SF Controlled Access Laboratory Building - $140M*

*Research Facility (SCRB3)*  
*New 285,000 SF Controlled Access Nuclear Isotope Research Laboratory, $62.5M*

*Research Houston Main Building*  
*500,000 SF, 22 story building controlled demolition and site redevelopment in the Texas Medical Center*

*Research Facility (SCRB4)*  
*New 210,000 SF Laboratory Research Building, $72.5M*

**Harris County Civil Justice Center**
Houston, Texas  
*20 Story, 600,000 SF, cast-in-place concrete building, $90M*
With over 22 years in the industry, and over $1 billion in construction projects completed, his experience in estimating and purchasing has produced great working relationships with the subcontracting community. During the preconstruction phase, Sung will provide planning and budgeting support through design and constructability reviews, life-cycle analysis and solicitation of subcontractor feedback.

**Preconstruction Services Experience:**

- **Atlantic Aviation FBO & Hangars**
  Houston, TX
  Two story FBO building, two new 48,000 sf hangars, $21.7M

- **Center for Disease Control & Prevention**
  Chamblee, Georgia
  Four story, 80,000 SF laboratory building, $21.8M

- **Agricultural Biotechnology/Molecular Biology Complex**
  Clemson, South Carolina
  Three story, 110,000 SF laboratory research complex, $23.1M

- **Matthew J. Perry, Jr. U.S. Courthouse**
  Columbia, South Carolina
  Four story, 200,000 sf courthouse, $24M

- **Hall County Court House**
  Gainesville, Georgia
  151,000 sf Courthouse, $20.9M

- **Suffolk Municipal Center**
  Suffolk, Virginia
  Design/Build – Two Story, 110,000 SF, Municipal Center which includes 911 Call Center, City Assessor, City Clerk, City Treasurer, Commissioner of Revenue, Council Chambers, HR, IT, Media & Community Relations, Public Works, Public Utilities, Planning & Community Development, Purchasing, City Attorney, City Manager, Economic Development, Finance, Budget & Strategic Planning, and Capital Programs $25M

- **Children's Museum of Virginia Addition & Renovation**
  Portsmouth, Virginia
  Two story, 74,000 sf complete renovation and 12,000 sf addition, $4.7M

- **GE Building C Structural Repairs**
  Houston, Texas
  Rehabilitation of structural steel components for support of bridge cranes, within an operating manufacturing facility, $4M
Bid Item 6 – Schedule of Values

<table>
<thead>
<tr>
<th>Rate Sheet</th>
<th>Project Manager $165.00</th>
<th>Sr.Plumbing Engineer $145.00</th>
<th>Assistant Plumbing Engr $115.00</th>
<th>Sr. Structural Engineer $145.00</th>
<th>Jr. Structural Engineer $115.00</th>
<th>Sr. Mechanical Engineer $145.00</th>
<th>Jr. Mechanical Engineer $115.00</th>
<th>Sr. Electrical Engineer $145.00</th>
<th>Jr. Electrical Engineer $115.00</th>
<th>Sr. Architect $145.00</th>
<th>Jr. Architect $115.00</th>
<th>Fire Protection Engineer $115.00</th>
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<td>80 MH = 13,200.00</td>
<td>24 MH = 3,480.00</td>
<td>30 MH = 3,450.00</td>
<td>20 MH = 2,900.00</td>
<td>40 MH = 4,600.00</td>
<td>30 MH = 4,350.00</td>
<td>20 MH = 2,300.00</td>
<td>20 MH = 2,300.00</td>
<td>60 MH = 6,900.00</td>
<td>40 MH = 4,600.00</td>
<td>30 MH = 3,450.00</td>
<td>20 MH = 2,300.00</td>
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<td>40 MH = 6,600.00</td>
<td>160 MH = 26,400.00</td>
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<td>20 MH = 2,900.00</td>
<td>40 MH = 5,800.00</td>
<td>20 MH = 2,300.00</td>
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<td>304 MH = 38,950.00</td>
<td>304 MH = 38,950.00</td>
<td>720 MH = 97,800.00</td>
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</tbody>
</table>

TOTAL LABOR: 124,565.00

SUBTOTAL: 124,565.00

OTHER INDIRECT COSTS & TRAVEL: 4,080.00

TOTAL (rounded): 128,645.00

IFC SUBMITTAL ENGINEERING DURING LABOR: 60%

DESIGN SUBMITTAL: 90%

Clarical/Steno

Senior Cost Estimator
Bid Item 7 - Risks and/or Opportunities

The greatest risk within the A/E contract for the project is not meeting the schedule. We have studied the RFP carefully and have confidence in our team to perform the services within the schedule parameters outlined within the RFP. Risks include:

1. A late start to the design due to factors beyond the control of the A/E such as a late receipt of authorization to proceed.
   a. Our proposed design schedule includes an anticipated release date of June 19, and also includes a contingency within our schedule. The earliest possible date of obtaining an authorization to proceed with design will proportionally mitigate this risk.

2. Construction durations taking longer than anticipated within the schedule shown within the RFP.
   a. We have included Rogers-O’Brien, a reputable contractor as part of our design team. They will be responsible for cost estimating, but their expertise will also be utilized to confirm the construction schedule as the design progresses. If needed, we can offer alternative project delivery solutions if the construction schedule requires in order to ensure the end date.

3. Unknown conditions within the existing building that, when discovered, could impact schedule.
   a. We intend to perform a thorough site investigation at the onset of the design services to identify any unknowns to the greatest extent possible. It appears a good set of “as-built” documentation exists which mitigates this risk. Based on past experience, we encourage a thorough check of all air-force records to identify any potential risk to cost and schedule due to unforeseen environmental issues.
Bid Item 8 – Overhead Percentage on Potential Change Orders
Bid Item 9 – Profit Percentage on Potential Change Orders
Bid Item 10 – Aggregate Markup on Potential Change Orders

Schedule of Hourly Professional Service Billing Rates

Notes:
1. For outside services utilized by DVO, such as subcontractors or subconsultants, the client shall pay cost plus 10%.
2. For expenses such as travel, reproduction, and expenses related to travel, the client shall pay direct cost.
3. These rates are effective through December 31 of the year noted above.
Bid Item 11 - Site Certification

We hereby acknowledge that we have received, read, and understood all bid documents, we have (1) visited and are familiar with the site conditions and have incorporated this into our response, and (2) we comply and agree to all provided terms, conditions, enclosures and attachments and have made no exception to our proposal.

William H. Niksch
Vice President, Industrial Facilities

Jason W. Dawson
Chief Executive Officer

Bid Item 12 - Addendum/ RFI Acknowledgement

We acknowledge receipt of responses to RFI's 1-11.