

Dinter Engineering Company

STATEMENT OF QUALIFICATIONS



2009



DINTER ENGINEERING COMPANY

*Mechanical, Plumbing and Electrical Consulting Engineers
(and Airfield Electrical Specialists)*

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Dinter Engineering Company

Consulting Engineers for Mechanical, Electrical and Airfield Electrical Systems

Dinter Engineering Company (DEC) is a small business corporation which provides consulting engineering services for mechanical, plumbing, and electrical systems and includes a dedicated Airfield Electrical Department for airfield power, lighting, signage and NAVAIDS systems. The firm's corporate office began operations in Reno, Nevada, in 1961 and the branch office in Phoenix, Arizona, in 2006.

The firm's experience is extensive, with over 4,100 projects completed that cover a wide range of military, airport/airfield, light and heavy rail, health care, commercial, industrial, educational, and institutional facilities of all sizes and complexities.

Services: Routinely Dinter Engineering Company is geared to provide the following:

- ✓ Investigations and reports
- ✓ Testing and evaluating
- ✓ Feasibility studies and master plans
- ✓ Energy audits
- ✓ Plan checking
- ✓ Engineer's Reports
- ✓ Designs, drawings, specifications and cost opinions
- ✓ Consultation during bidding and construction phases
- ✓ Construction observation and support
- ✓ "As-built" plans and documents
- ✓ "Design/Build" contractor design assistance

Stability: DEC's staff is comprised of professional engineers licensed throughout the Western U.S. as well as engineer interns, project managers, designers, technicians, drafters and administrative personnel with years of experience. The firm has a long history of service coupled with a continuous, competent work record and key personnel retention. These factors have encouraged many repeat clients over the years including airports; hospitals; city, county, state and federal agencies and most branches of the Armed Services.

Technological Capabilities: DEC is totally automated and networked using the latest computer technology. We have a Web page at <http://www.dinter.com> and a general e-mail address of marketing@dinter.com, along with individualized addresses. Our high-speed Internet capabilities allow nearly instantaneous transfer of data and plot files, affording speedy and cost-effective coordination between offices separated by distance. We also utilize a constantly updated, rigorous virus protection system and fire walls.

Engineering Systems: Our staff is experienced in all types of mechanical, plumbing and electrical systems with particular qualifications in evaluating or designing the following:

Mechanical/Plumbing:

- ✓ Heating, ventilating, and air conditioning (HVAC) for institutional, commercial, and industrial applications
- ✓ Central plants (boilers/chillers)

Dinter Engineering Company



Mechanical/Plumbing (continued):

- ✓ Co-generation systems
- ✓ Steam heating and process
- ✓ Underground utilities and utility distribution
- ✓ Vehicle exhaust source extraction systems with automatic start and disconnect capabilities including Nederman vehicle exhaust
- ✓ Fire protection including aqueous film forming foam (AFFF) fire suppression, clean-agent dry fire suppression (FM-200®, Inergen® and FE-13®), and fire sprinklers
- ✓ Plumbing, including fuels (gaseous and liquid), domestic water, and drain/waste/vent
- ✓ Special waste handling--sand-and-oil interceptors and waste oil collection and storage
- ✓ Grease hood ventilation for kitchens
- ✓ Backflow prevention assemblies
- ✓ Medical gases
- ✓ Air tank breathing-air filling stations
- ✓ Compressed air
- ✓ Process piping
- ✓ Underground and above grade fuel storage tanks, dispensing facilities and appurtenances
- ✓ Generator fueling and ventilation
- ✓ Automatic hand-pump assemblies for emergency generator systems
- ✓ Temperature and process controls
- ✓ Solar space heating and water heating designs and feasibility studies
- ✓ Hydronic snowmelt for walkways, driveways and building entrances
- ✓ Energy management (building energy control)
- ✓ Energy audits and efficiency evaluations.

Electrical:

- ✓ Power transmission and distribution, substations and generating plants
- ✓ Building power (design and evaluation)
- ✓ Standby generator and uninterruptible power supply (UPS)
- ✓ Emergency power circuits for submersible sump pumps
- ✓ Power service for concrete containment pads for mixing fire retardant
- ✓ Power for automatic roll-up doors
- ✓ Special power for computer systems, including local area network (LAN)
- ✓ Fiber optics
- ✓ Wire management
- ✓ Lighting, interior, with controls and dimming systems
- ✓ Lighting, exterior, with controls for roadways, parks, aprons, and parking lots
- ✓ Intercom, paging, and nurse call
- ✓ Fire alarm and detection
- ✓ Building security and access
- ✓ Prison security and control
- ✓ Security electronics, including personal duress alarms, card access, prison locking, and facility control panels
- ✓ Security fencing and automatic gates
- ✓ Intrusion detection (IDS)
- ✓ Closed circuit television (CCTV)
- ✓ Clock and program
- ✓ Television distribution and utilization

Electrical (continued):

- ✓ Master antenna television distribution
- ✓ Communications, telephones, data, and voice outlets with Category 6 wiring
- ✓ Energy management
- ✓ Pump station controls and control telemetry, including Supervisory Control and Data Acquisition (SCADA).

Specialized Experience: Our Airfield Electrical Department regularly provides power and/or lighting design for:

- Runways, taxiways, aprons/ramps, and helicopter landing pads (helipads)
- Navigational aids such as PAPIs, REILs, approach lighting systems, ILS, GS, LOC, and DME
- Weather stations (AWOS and ASOS)
- Airfield lighting control and monitoring systems (ALCMS)--computerized and analog
- Airfield mandatory/directional/guidance signage
- Beacons and wind cones/wind socks
- Standby generators and uninterruptible power supplies (UPS)
- Communications
- Site electrical utilities
- Constant Current Regulators (CCRs)
- Airfield electrical/power/lighting vaults.

We feel that quality assurance and cost control are of primary importance, along with meeting schedules, and we follow specific quality assurance guidelines to hold errors to a minimum, contain costs, and achieve deadlines. Our clients have told us that our work is technically superior to that of many other firms with whom they have worked and that we are honest, sincere, hardworking, easy to get along with, and respond faster nationwide than many other firms.

Our firm has an excellent reputation nationwide, has been litigation-free since the beginning, and is financially secure.

Sustainability: Dinter Engineering Company regularly incorporates energy-efficient designs conforming to the latest guidelines of the Model Energy Code, ASHRAE, state energy codes, California Title 24, and local adopted green standards. All of our designs include the latest in energy-efficient systems and reduced consumption technologies. DEC has received many awards from utility companies for our energy-efficient designs in both mechanical and electrical engineering disciplines.



Bethlehem Lutheran Church & School -- energy-efficient electrical systems

Members of our staff have completed a *Leadership in Energy and Environmental Design (LEED®)* certification course, we have LEED® Accredited Professional engineers on staff, and we utilize LEED® principles and techniques whenever possible to design environmentally friendly "Green Buildings" incorporating energy efficiency and waste reduction.

Design/Build: Dinter Engineering Company began its involvement with design/build long before it became the preferred delivery method for many projects, and we have an excellent relationship with the contracting community nationwide. Examples include:

- ✓ **Buckley Air Force Base**, Aurora, Colorado: Taxiway Zulu Widening
- ✓ **Naval Air Weapons Station (NAWS), China Lake**, California: Design-Build Repair Flightline Lighting Electrical Distribution System [part of Dry Utilities Multiple Award Contract Construction (MACC)]
- ✓ **El Centro Naval Air Facility**, El Centro, California: Design/Build Lighting for Simulated Aircraft Carrier Deck with Landing Lights and Helicopter Landing Pad
- ✓ **Defense Depot San Joaquin** [Sharpe Defense Depot], Tracy Site, California: Renovate Building 286, Bays 4, 5 and 6
- ✓ Projects for **Naval Air Station, Fallon, Nevada:**
 - ▶ Electrical Infrastructure Upgrades at Various Locations
 - ▶ Design/Build Taxiway Alpha Lighting Systems Upgrade
 - ▶ Design/Build Taxiway E, CALA Ramp, and Aprons for Hangars 3, 4 and 7
 - ▶ Design/Build Heating Plant Decentralization
 - ▶ Insulation Resistance Monitoring System (IRMS) and Wave-off Lighting for Runway 13L-31R
- ✓ **Brown Field Municipal Airport**, San Diego, California: Design/Build Fuel Lines
- ✓ **Norman Y. Mineta San José International Airport**, San José, California: Renzel Airfield Taxiways Y and Z Improvements
- ✓ **Los Angeles International Airport**, Los Angeles, California: Airport-wide Computer Airfield Lighting Control and Monitoring System Upgrade
- ✓ **Phoenix Sky Harbor International Airport**, Phoenix, Arizona: S2 Concourse Apron Development/Taxiway D Reconstruction
- ✓ **Pulliam Airport**, Flagstaff, Arizona: GA Box, T- and Shade Hangar Infrastructure and Design
- ✓ **Northern Nevada Adult Mental Health Services**, Sparks, Nevada: Dini-Townsend Hospital - Design-Build East Wing Remodel
- ✓ **Flying Eagle Air Park Ranches**, Washoe County, Nevada



Buckley AFB



NAS Fallon

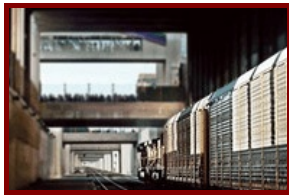
- ✓ **The Boys & Girls Club of Western Nevada**, Carson City, Nevada: New Facility
- ✓ **Camp Grizzly Creek**, Portola, California: Campground, Phase I Buildings
- ✓ **Truckee Police Station**, Truckee, California: Remodel
- ✓ **Carson City Public Works**, Butti Way, Carson City, Nevada: Renovate Electrical Service in Building #7
- ✓ **The Metropolitan at Cupertino**, Cupertino, California: HVAC and Plumbing Systems
- ✓ **University of Nevada, Reno**: Frandsen Humanities Building: Retrofit Security and Fire Alarm Systems
- ✓ **Nevada Department of Motor Vehicles & Public Safety/Nevada Highway Patrol** State Office Building Complex, Elko, Nevada



Boys & Girls Club



The Metro



Reno ReTRAC

- ✓ **Truckee Meadows Reno Transportation Rail Access Corridor (ReTRAC)**, Reno, Nevada: Phase I - Project Management
 - ★ *Southwest Contractor's* "Best of Nevada 2005 Award" for Transportation Project
 - ★ *American Public Works Association 2007 award* "Public Works Project of the Year" in Transportation category, more than \$100 million range



Key Personnel:

<i>Keller C. Hackbusch</i>	- Chief Executive / Manager of Airfield Electrical Department Electrical Engineer
<i>Peter K. Hackbusch</i>	- President Electrical Principal-in-Charge
<i>Tim A. Prockish</i>	- Executive Vice President / Manager of Electrical Department Chief Electrical Engineer
<i>Thomas P. Federici</i>	- Principal / Manager of Mechanical Department Chief Mechanical Engineer
<i>Matthew C. Myres</i>	- Mechanical Department Production Manager Mechanical Engineer
<i>Donald Y. West</i>	- Mechanical Engineer
<i>Peter M. Syntax, LEED^{AP}</i>	- Electrical Engineer
<i>Edward R. Gansberg</i>	- Assistant Manager of Electrical Department Electrical Project Manager
<i>Kevin B. Melrose</i>	- Electrical Project Manager

The staff of Dinter Engineering Company generally numbers around 30 licensed professional engineers, engineer interns, project managers, designers, CADD technicians, drafters and administrative personnel, and the firm utilizes departmental crossover of our drafting and technical personnel whenever needed to meet project deadlines.

Professional Affiliations: Actively participating in many professional organizations keeps our staff up-to-date with the latest products and techniques. Currently we are represented in the following associations:

- Airport Consultants Council (ACC)
- American Association of Airport Executives (AAAE)
- American Association of Airport Executives - South Central Chapter (AAAE-SCC)
- Northwest Chapter of the American Association of Airport Executives (NWAAAE)
- Southwest Chapter American Association of Airport Executives, Inc. (SWAAAE)
- Arizona Airports Association (AzAA)
- Nevada Airports Association (NvAA)
- American Public Works Association (APWA)
- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
- American Society of Mechanical Engineers (ASME)
- Builders Association of Western Nevada (BAWN)
- The Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- Illuminating Engineering Society of North America (IESNA)
- National Fire Protection Association (NFPA)
- National Society of Professional Engineers (NSPE)

Professional Registrations: We have mechanical and electrical engineering staff licensed in multiple states.



Keller C. Hackbusch - Chief Executive / Manager of Airfield Electrical Department / Electrical Engineer: Mr. Hackbusch began his employment at Dinter Engineering in 1995, while attending the University of Nevada, Reno. During the next nine years his duties focused on project management, design and

construction observation services for airfield electrical projects. In 2004 Mr. Hackbusch became manager of Dinter's Airfield

Electrical Department and is also Chief Executive for the firm. His duties include project management, design and construction management for airfield electrical systems on projects at various airports nationwide—to date, nine international air carrier airports, 35 general aviation or regional/municipal airport facilities, and six military air bases.

Keller is a member of seven airport-related professional organizations, including ACC, AAAE and AzAA, and has lead educational presentations at two *ACC/AAAE Airport Planning, Design and Construction Symposiums*.

Years:

with Dinter Engineering: 13.6

Professional Registration:

Nevada P.E. No. 018326

Degree: B.S.

Electrical Engineering - 2001

Project Examples:

- Projects for **Los Angeles International Airport**, Los Angeles, California:
 - ▶ *Midfield Satellite Concourse (MSC), Tom Bradley International Terminal (TBIT) Expansion – Task Order 1: Taxiway C-13, Taxiway D Extension and RON Apron*
 - ▶ *Computer Airfield Lighting Control and Monitoring System Upgrade.*
- 12 projects for **McCarran International Airport**, Las Vegas, Nevada, including:
 - ▶ *C-2226 Ramp and Airfield Improvements for Cluster Building No. 4 (CB-4).*
 - ▶ *Reconstruction of Runway 1R-19L and Associated Taxiways (McCarran 2000 - Phase Five).*
 - ▶ *Taxiways B, C and D (Project C-2119).*
- 3 projects for **Phoenix Sky Harbor International Airport**, Phoenix, Arizona.
- **Idaho Falls Regional Airport**, Idaho Falls, Idaho: *Runway 2/20 Rehabilitation.*
- 3 projects for **Riverside Airport**, California, including *Electrical System Survey and Master Plan.*
- **Prescott Municipal Airport**, Prescott, Arizona: *Taxiways D and F Lighting.*
- **Pulliam Airport**, Flagstaff, Arizona: *Lighting Vault Improvements.*
- 6 projects for **Reno-Stead Airport**, Reno, Nevada, including:
 - ▶ *Runway 14/23 Reconstruction and Extension.*
 - ▶ *Taxiways A and D Realignment and Taxiway Lighting.*
- 13 projects for **Reno-Tahoe International Airport**, Reno, Nevada, including:
 - ▶ *Runway Safety Area Improvements.*
 - ▶ *Airfield Signage Improvements - Phases I and II (Prime A-E).*
- 5 projects for **Norman Y. Mineta San José International Airport**, San José, California, including:
 - ▶ *Renzel Airfield Improvements.*
- 3 projects at **Southern California Logistics Airport**, Victorville, California, including:
 - ▶ *Airfield Electrical Systems Upgrade and Vault.*
 - ▶ *Runway 17-35 Extension.*
- **Tallahassee Regional Airport**, Tallahassee, Florida: *Runway 9/27 Reconstruction and Correction of Line of Sight.*
- **Naval Air Weapons Station (NAWS), China Lake**, California: *Design-Build Repair Flightline Lighting Electrical Distribution System.*
- 4 projects for **Colorado Springs Airport**, Colorado Springs, Colorado.



Peter K. Hackbusch - President / Electrical Principal-in-Charge: Mr. Hackbusch has amassed a tremendous amount of electrical design and project management experience on a large variety of projects over the last 42 years. In 1977 he joined Dinter Engineering and became a principal in the firm in 1985.

Presently Mr. Hackbusch is president and the principal in charge of electrical production.

Years:

with Dinter Engineering: 32.3
with other firms: 10

Education:

Electrical Engineering - 1973

Mr. Hackbusch's work experience includes design of high and medium voltage distribution systems; standby generation and controls, computer facilities' distribution; tele/data communications (LAN and voice, CAT 6 wiring systems and fiber optics); pumping control systems, and special signal and security electronics systems required for institutional projects such as prisons, hospitals, and universities.

Pete was in direct charge of most of the electrical engineering work at the Fallon Naval Air Station (NAS) in northern Nevada for over twenty years and is intensely familiar with military airfield operations. He has also been involved with many airport, institutional, medical, industrial and commercial projects, including some with total construction costs over \$800 million. He is currently electrical project manager for the new Sky Train for Phoenix Sky Harbor International Airport.

Project Experience: Mr. Hackbusch has experience in all of the following categories:

- **Airports:** El Paso Intl., TX (2); Los Angeles Intl., CA (2); McCarran Intl., NV (3); Oakland Intl., CA (2); Phoenix Sky Harbor Intl., AZ (4); Reno-Tahoe Intl., NV (43); Sacramento Intl., CA; Salt Lake City Intl., UT; San Diego Intl., CA (2); Norman Y. Mineta San José Intl., CA (4); Battle Mountain, NV; Beatty, NV; Chandler, AZ; Chino, CA; Elko Regional, NV (2); Flying Eagle Air Park Ranches, NV (2); Henderson Executive, NV (2); Medford-Jackson County, OR; Minden-Tahoe, Minden, NV; Needles, CA; Phoenix-Mesa Gateway, AZ (3); Prescott, AZ; Ramona, CA; Reno-Stead, Reno, NV (10); Riverside, CA (3); Sedona, AZ; Southern California Logistics, CA.
- **Commercial** (banks, shopping centers, retail stores, offices, restaurants, kitchens, bars, etc.): ~65 projects.
- **Correctional** (jails; minimum, medium and maximum security prisons; public safety facilities; and youth facilities): +70 projects.
- **Municipal and Other Government** (courthouses/city halls; fire stations; city, county and state government administrative and dispatch facilities (DMV, DOT, Legislature, etc.); post offices): +110 projects.
- **Educational** (kindergarten through 12th grade, post-secondary institutions, training facilities): +205 projects.
- **Historic Preservation/Renovation:** ~20 projects.
- **Hotels, Casinos, Motels:** ~20 projects.
- **Industrial, Mining and Warehousing:** +60 projects.
- **Medical** (hospitals, mental health facilities, convalescent homes, health clinics, medical/dental office buildings, medical laboratories, veterinary facilities, etc.): +65 projects.
- **Military** (Air Force, Army Corps of Engineers, Marine Corps, National Guard, Navy): +110 projects.
- **People Movers/Rail Facilities:** 8 projects.
- **Recreational Facilities** (parks, ballfields, trails/pathways, fairgrounds, golf courses, ski resorts, recreation areas, campgrounds/RV parks, U.S. Forest Service facilities, visitor centers, gyms/physical fitness facilities, community centers/clubhouses, senior centers, swimming pools, tennis courts, museums, galleries, theaters): ~70 projects.
- **Religious** (churches, chapels, wedding chapels, cemeteries): +30 projects.
- **Residential** (barracks, dorms, condos, apartments, housing developments, single-family homes): ~45 projects.
- **Non-airport Vehicular** (vehicle maintenance shops, DOT equipment buildings, bus system facilities, vocational/auto repair shops, garages, parking garages/structures, gas/service stations, car/truck wash facilities, paint booths, auto sales): +70 projects.



Tim A. Prockish - Executive Vice President / Manager of Electrical Department / Chief Electrical Engineer:

Mr. Prockish has 21 years of engineering experience from various local electrical engineering and contracting firms. He has performed all phases of electrical engineering including design, project scheduling, estimating, submittal review, field inspections, overseeing staff and drafters, and system installation. Mr. Prockish is vice president and manager of the Electrical Department for Dinter Engineering Company and has designed all types of electrical systems including communications infrastructure items such as security, telephone, local area network (LAN), fiber optics, information display, and fire alarm systems, power distribution, building electrical systems, and roadway and interior lighting. Mr. Prockish is presently Dinter's Project Manager for recent projects for the Naval Air Station in Fallon, Nevada.

Years:

with Dinter Engineering: 8.2
with other firms: 13

Professional Registration:

Electrical Engineering P.E. in
multiple states

Degree: B.S.

Electrical Engineering - 1993

Project Experience:

- **Airports:** George Bush Intl., TX; McCarran Intl., NV (8); Phoenix Sky Harbor Intl., AZ; Reno-Tahoe Intl., NV (29); Sacramento Intl, CA (3); Norman Y. Mineta San José Intl., CA (2); Barstow-Daggett, CA; Beatty, NV; Bryant Field, CA; Casa Grande Muni., AZ; Chino, CA; Falcon Field, AZ (2); Fallon Muni., NV; Flying Eagle Air Park, NV; Gabbs, NV; Garfield County Regional, CO; Henderson Exec., NV (2); Lee Vining, CA; Long Beach, CA (2); Needles, CA; Okanogan Legion, WA; Phoenix-Mesa Gateway, AZ; Prescott Muni., AZ (2); Redding Muni., CA; Redlands Muni., CA; Reno-Stead, NV (4); Riverside, CA (3); Sacramento Exec., CA; Silver Springs, NV (2); Southern California Logistics, CA (2); Tallahassee, FL; Tonopah, NV; Truckee Tahoe, CA (2); Tucson Ryan, AZ.
- **Bank of America**, 50 W. Liberty, Reno, Nevada: *Remodel Suite 880.*
- **Shasta Head Start Facility**, Anderson, California (new preschool building).
- **Desiderio Property**, Sun Valley (Sparks), Nevada (new multi-tenant, three-building shopping center).
- **Riverside Art Gallery**, Reno, Nevada: *Remodel* (of 5,000 sq. ft.)
- **Damonte Ranch High School**, Reno, Nevada (new \$35 million high school for 2,000 students).
- **City of Riverside, California**, *Mobile Radio System: Box Springs Project.*
- **Washoe County District Attorney**, Reno, Nevada: *New Offices for Family Support Division.*
- **Immaculate Conception Church**, Sparks, Nevada (new 43,000 sq.ft. church facility).
- **Ely State Prison**, Ely, Nevada: *Fire Alarm Detection Replacement and Upgrade.*
- **High Desert State Prison**, Indian Springs, Nevada: *Transient Voltage Surge Suppression - Phase I.*
- 3 projects for **Truckee Police Station**, Truckee, California, including: *Remodel* (design/build).
- **Reno-Sparks Indian Colony**, Sparks, Nevada: *Improve Water System for Hungry Valley Pump Station.*
- **City of Redding, California: Fire Station No. 8** (new 8,858 sq.ft. fire station).
- **Trout Creek Expansion**, Truckee, California (10,000 sq.ft. addition to existing recreation center).
- **Atlas Contractors: New Batch Plant at Rocky Ridge**, Sparks, Nevada.
- **Truckee Library**, Truckee, California: *Addition and Remodel.*
- **Southern Nevada Adult Mental Health Services**, Las Vegas: *New Rawson-Neal Psychiatric Hospital.*
- 17 projects for **Naval Air Station, Fallon**, Nevada.
- **Town of Mammoth Lakes: Mammoth Welcome Center and Visitors' Bureau Administrative Offices.**
- **Truckee-Donner Recreation & Park District - Community Sports Park**, Truckee, California: *Phase 2 Buildings and Maintenance Building.*
- **Patel Residence**, (Lake Tahoe), Nevada (new \$3 million, 9,000 sq.ft. residence).
- **Sizzler Restaurant**, Sparks, Nevada: *Remodel.*
- **Reno Transportation Rail Access Corridor**, Reno, Nevada: *Phase I - Project Management.*
- **Defense Depot San Joaquin**, Tracy Site, CA: *Renovate Building 286, Bays 4, 5 and 6* (Design/Build)



Thomas P. Federici - Principal and Manager of Mechanical Department / Chief Mechanical Engineer:

Mr. Federici has 35 years' experience in engineering, the majority in the construction industry as a mechanical engineer, designing and evaluating HVAC and plumbing systems for new and remodeled

building projects. Tom joined Dinter Engineering as a Senior Mechanical Engineer in May 1995 and is presently a principal in the firm and manager of the Mechanical Department, overseeing the mechanical and plumbing designs for all projects.

Years:

with Dinter Engineering:	14
with other firms:	21

Professional Registration:

- Mechanical Engineering P.E. in multiple states
- California Energy Auditor

Degree: B.S.

Mechanical Engineering - 1974

Mr. Federici's experience encompasses a wide variety of projects, and his responsibilities have included design of mechanical and plumbing systems, design review, studies, and construction inspection. He is currently mechanical project manager for the new Sky Train for Phoenix Sky Harbor International Airport.

Project Experience: Mr. Federici has experience in all of the following categories:

- **Airports:** Barstow-Daggett, CA; El Paso Intl., TX; McCarran Intl., NV; Oakland Intl., CA; Phoenix Sky Harbor Intl., AZ (2); Reno-Stead, NV (2); Reno-Tahoe Intl., NV (25); Norman Y. Mineta San José Intl., CA (2) and Southern California Logistics Airport, Victorville, CA.
- **Commercial** (banks, shopping centers, retail stores, offices, restaurants, kitchens, bars, etc.)
- **Correctional** (jails; minimum and maximum security prisons; police stations; and youth facilities).
- **Municipal and Other Government** (courthouses/city halls; fire stations; city, county and state government administrative and dispatch facilities (DMV, DOT, etc.); post offices).
- **Educational** (kindergarten through 12th grade, post-secondary institutions, training facilities) ~35 projects.
- **Industrial, Mining and Warehousing.**
- **Medical** (hospitals, mental health facilities, convalescent homes, health clinics, medical/dental office buildings, medical laboratories, veterinary facilities, etc.)
- **Military** (Air Force, Army Corps of Engineers, National Guard, Navy): ~27.
- **Recreational Facilities** (parks, golf courses, ski resorts, recreation areas, campgrounds/RV parks, U.S. Forest Service facilities, visitor centers, gyms/physical fitness facilities, community centers/clubhouses, senior centers, swimming pools, museums).
- **Religious** (churches, chapels, wedding chapels, cemeteries).
- **Residential** (barracks, condominiums, apartments, housing developments).
- **Non-airport Vehicular** (vehicle maintenance shops, DOT equipment buildings, bus system facilities, parking garages, vehicle wash facilities, paint booths).

Project Examples:

- Remodel for **Nevada State Museum**, Carson City, Nevada (renovation of 42-year-old bank building).
- **Kal Kan Foods' Western Dry Facility**, Sparks, Nevada (new, \$10 million, 110,000 sq.ft. pet food manufacturing plant).
- New Nevada **National Guard State Area Readiness Command Complex**, Carson City, Nevada, comprised of: *USPFO Building* (31,000 sq.ft. office building with warehouse) and *Armory/Headquarters (OTAG) Building* (78,683 sq.ft., two-story building for supply, administration and training functions).
- * **Circus-Circus Hotel-Casino**, Reno, Nevada: 1,000-room Tower and Casino Addition (prior to Dinter).



Matthew C. Myres - Mechanical Department Production Manager / Mechanical Engineer:

Mr. Myres' experience comes from a number of different sources including eight years of military service, work for general contractors, employment for a plumbing contractor for whom he started an engineering department specializing in design-build projects, and various positions at Dinter Engineering Company, where he is now Dinter's mechanical department production manager. His duties include designing HVAC, plumbing, and fire protection systems, performing calculations, AutoCAD work, cost estimating, specification writing and managing the production for the mechanical department.

Years:

with Dinter Engineering: 9.7
with other firms 3.2

Professional Registration:

Mechanical Engineering P.E. in multiple states

Degree: B.S.

Mechanical Engineering - 1999

Matt's project experience is varied and includes military facilities, maintenance shops, a criminal forensics lab, commercial kitchens, remodeled office buildings, tenant improvement buildings, fire stations, vehicle exhaust systems, high-end residences, auditoriums, stand-alone restroom facilities, design-build mixed-use condominiums with retail spaces, underground garages, Green building design, and senior assisted living facilities. He is currently designing a complete retrofit HVAC system for a Veterans Hospital building that is more than 60 years old.

Project Examples:

- 4 Airport projects including: **Oakland International Airport**, Oakland, California: *New Airfield Lighting Facility*.
- **VA Sierra Nevada Health Care System**, Reno, Nevada: *Building #1 HVAC System Replacement* (\$15.8 million project to replace antiquated HVAC system in 132,000 sq.ft., six-story, 68-year-old building.)
- **University of Nevada, Reno**: *Remodel of Animal Care Laboratory in Anderson Health Science Building, Manville School of Medical Science*.
- **1200 Riverside Drive Condominiums**, Reno, Nevada: *Chiller/Cooling Tower Replacements*.
- **Washoe County Administration Complex**: *Replace Chillers and Cooling Tower and Install Chilled Water Plate-and-Frame Heat Exchanger*.
- 5 projects for **Washoe County Jail**, Reno, Nevada, including: *Civil Protective Custody Expansion*.
- **Sierra Nevada College**, Incline Village, Nevada: *Prim Library and Learning Resource Center*.
- **City of Sparks Fire Stations Nos. 2, 3 and 4**, Sparks, Nevada: *Nederman Vehicle Exhaust Systems*.
- 4 projects for **Sparks (Main) Fire Station No. 1**, 1605 Victorian Avenue, Sparks, Nevada.
- **Squaw Valley Public Service District**, Squaw Valley, California: *Fire Station/Administration Center*.
- **Nevada Dept. of Transportation Elko Maintenance Station**, Nevada: *New Equipment Repair Shop*.
- **Commons Beach**, Tahoe City, California: *Lake Access Enhancement (Path and Restroom Building)*.
- **Town of Mammoth Lakes, CA**: *Mammoth Welcome Center & Visitors' Bureau Administrative Offices*.
- **North Tahoe Beach Center**, California Tahoe Conservancy, Kings Beach, California: *Reconstruction*.
- **Nevada National Guard State Area Readiness Command Complex**, Carson City, Nevada:
 - *New USPFO Building* (31,000 sq.ft. office building.)
 - *New Armory/Headquarters (OTAG) Building* (78,683 sq.ft., two-story building for supply, administration and training functions.)
- **Defense Depot San Joaquin** [Sharpe Defense Depot], Tracy Site, California: *Renovate Building 286, Bays 4, 5 and 6* [remodel 131,000 sq.ft. of warehouse and 1,000 sq.ft. of office/restroom spaces for Design/Build project].



Donald Y. West - Mechanical Engineer: Mr. West has more than ten years' experience as a Mechanical Engineer designing HVAC and plumbing systems for a variety of projects including health care, institutional, educational, and commercial facilities; office buildings; and warehouses. He is now a mechanical engineer in Dinter's **Phoenix** office.

Years:

with Dinter Engineering: 2.8
with other firms 7.7

Professional Registration:

Mechanical Engineering P.E. in
Arizona, California and Nevada

Degree: B.S.

Mechanical Engineering - 1999

Donny's experience includes design of overall mechanical/HVAC air distribution, plumbing and fire protection systems; mechanical calculations for HVAC design; selection of new HVAC equipment and of plumbing fixtures, including ADA-compliant fixtures; and design of water, waste, and gas distribution, backflow prevention devices, and chillers and water towers

Mr. West is an active member and past-president of the local chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc. (ASHRAE).

Project Examples:

- **Arizona Department of Revenue**, Phoenix, Arizona: *Elevator Modernization.*
- **Arizona State Veterans Home**, Phoenix, Arizona: *Dining Room Remodel Expansion.*
- **Brown Field Municipal Airport**, San Diego, California: *Design/Build Fuel Lines.*
- **Dazzle Dental Office**, Queen Creek, Arizona: *Tenant Improvement.*
- **Equity Industrial Properties: Fuller Commercial Office Center**, Gilbert, Arizona.
- **Family Dentistry Office**, Phoenix, Arizona: *Dr. Covington Tenant Improvement.*
- **Foothills Community Park**, Goodyear, Arizona: *Aquatic Facility.*
- **Lamoreaux Marketplace**, Phoenix, Arizona.
- **Regional Transportation Commission of Washoe County**, Reno, Nevada: *RTC Ride and RTC Access Facilities: Seismic Gas Shutoff Valves.*
- **Reno-Tahoe International Airport**, Reno, Nevada: *Integrated In-Line Explosive Detection System Project* (three phases of work involving 96,395 sq.ft. for \$59 million expansion and remodeling of the airport ticketing lobby/baggage make-up areas.)
- **City of Reno Police Department**, Reno, Nevada: *Main Police Station HVAC Replacement.*
- **Silver Peak Grill & Taproom on the River**, Reno, Nevada: *Modification and Reconfiguration of Kitchen Hood Exhaust for the Parking Gallery Ventilation System.*
- **University of Nevada, Reno: Fleischmann Agriculture Building #032: Environmental Controls Upgrade for Rooms 135, 137, 137B, Animal Laboratory.**

Prior to Dinter Engineering employment:

- * **North Tahoe Fire Station**, North Lake Tahoe, California (new building; ADA-compliant plumbing).
- * **Southern Nevada Adult Mental Health Services**, Las Vegas, Nevada: *Rawson-Neal Psychiatric Hospital* (new 117,000 sq.ft., single-story, 190-bed psychiatric hospital).
- * **University of Nevada, Reno: Student Union Building** (new 160,000 sq.ft. building).
- * 3 projects for **Lyon County School District**, Nevada, including two new schools.
- * **China Springs Boys' & Girls' Dormitories**, Gardnerville, Nevada (new buildings).
- * **Comstock Large Animal Hospital**, Reno, Nevada (new veterinary hospital with offices).
- * **Lahontan Fish Hatchery**, Gardnerville, Nevada (new building; HVAC equipment selections and water distribution system for ultraviolet (UV) filter system inside the building).



Peter M. Syntax, LEED^{AP} - Electrical Engineer: Mr. Syntax has nine years of engineering experience from engineering firms and U.S. Navy ships. In addition to electrical engineering, his background includes providing mechanical and plumbing designs for residential and commercial projects.

Pete has performed all phases of engineering including feasibility studies and assessments, project designs, project scheduling, estimating, field inspections, construction administration and submittal review, and overseeing engineers, designers, and drafters. He also provides LEED design and documentation. Mr. Syntax currently heads up the Electrical Department for Dinter Engineering Company's **Phoenix**, Arizona, office.

Pete's project experience is diverse and includes educational, administrative, institutional, government, fire station, museum, recreational, athletic, mixed-use, retail, convention, hotel, and restaurant facilities.

Years:

with Dinter Engineering:	.2
with other firms:	9

Relevant Registrations:

Arizona P.E. No. 49025
LEED® Accredited Professional

Degree/Education:

B.S.
Marine Engineering Systems (minor
in Electrical Engineering) - 2004

Project Examples (prior to Dinter Engineering employment):

- * **APS Deer Valley Operations Building**, Phoenix, Arizona (new \$85 million, multi-story, 220,000 sq.ft. building.)
- * Projects for **Arizona State University**, Tempe, Arizona:
 - *Devil Dome* (new \$15 million, 90,000 sq.ft. indoor practice and training facility for football team.)
 - *Psychology Department Expansion and Renovation* (\$10 million, phased, multiple remodel packages of over 65,000 sq.ft. of office and research space in six different buildings.)
 - *The Weatherup Center* (new \$25 million, 44,000 sq.ft. indoor practice facility for men's and women's basketball teams.)
- * **Surprise City Hall**, Surprise, Arizona (new, \$48.5 million, 160,000 sq.ft. city hall.)
- * Projects for **Maricopa County**, Arizona:
 - *Maricopa County Fire Station #2* (new 8,000 sq.ft., three-bay, nine-bed municipal fire station.)
 - *Maricopa County Fire Station #571* (new 11,000 sq.ft., four-bay municipal fire station.)
- * **The Baha'i Faith Center**, Scottsdale, Arizona (three-building religious facility complex.)
- * **Bank of America Corporate Offices**, Phoenix, Arizona (\$8 million, 1.3 million sq.ft. remodeling of office space in four separate office buildings.)
- * **Best Buy**, Durante, California (new 46,000 sq.ft. electronics and appliances specialty retail store.)
- * **Chandler Center for the Performing Arts**, Chandler, Arizona: *Feasibility Study*.
- * **George Washington Carver Museum and Cultural Center**, Phoenix, Arizona: *Feasibility Study and Renovation*.
- * **Las Vegas Convention Center**, Las Vegas, Nevada (three million sq.ft., \$890 million.)
- * **The Rock Teen Center**, Phoenix, Arizona (new two-story, 26,000 sq.ft.)
- * **Yourland Mixed-Use Development**, Phoenix, Arizona (new mixed-use development including nine six-story office buildings, three multi-level parking garages, a hotel, restaurant, and retail space.)
- * **Wal-Mart Supercenter and Sam's Club Store Planning Program**, various locations throughout United States and Mexico (renovations of existing stores.)
- * **Paradise Bakery**, various locations throughout United States (new restaurants ranging in size from 800 to 1,600 sq.ft. for free-standing buildings, tenant infills, or mall food courts.)
- * **Ling and Louie**, Scottsdale, Arizona (new 8,000 sq. ft. Asian restaurant with commercial grade kitchen and specialty lighting.)



Edward R. Gansberg - Assistant Manager of Electrical Department / Electrical Project Manager: Mr. Gansberg has over 32 years' experience in the construction industry directly related to electrical engineering, performing all phases including computer operating, design, calculations, estimating, and inspections. Ed

joined Dinter Engineering Company in 1991 as an Electrical Project Manager, bringing with him thirteen years' experience as senior project manager for various engineering firms. Mr. Gansberg is currently assistant manager of the Electrical Department.

Mr. Gansberg is a member of the Illuminating Engineering Society of North America (IESNA).

Honors/Awards: Mr. Gansberg's engineering talents have received particular recognition through a number of honors/awards including:

- ★"Certificate of Appreciation" from Associated Students of **University of Nevada** and the UNR Staff for contributing to the successful renovation of the **Jot Travis Student Union** building.
- ★Special recognition from Sierra Pacific Power Company commending Mr. Gansberg's design of *energy-efficient electrical systems* for the **Bethlehem Lutheran Church and School** in Carson City, Nevada.
- ★"Excellence in Design" award from Washoe County Design Review Committee Awards Panel for design of an electrical snowmelt system for the **Washoe County Administration Courtyard**.

Project Experience: Mr. Gansberg has experience in all of the following categories:

- **Airports:** Elko Regional, NV; Henderson Executive, NV; Jean, NV; McCarran Intl., NV (2); Phoenix-Mesa Gateway, AZ; Phoenix Sky Harbor Intl., AZ (2); Redding Municipal, CA; Reno-Stead, NV; Reno-Tahoe Intl., NV (48); Sacramento Intl., CA (2); Salt Lake City Intl., UT; Norman Y. Mineta San José Intl., CA.
- **Commercial** (banks, shopping centers, retail stores, offices, restaurants, kitchens, bars, etc.)
- **Correctional** (jails; minimum and maximum security prisons; police stations, public safety facilities; and youth facilities).
- **Municipal and Other Government** (courthouses/city halls; fire stations; city, county and state government administrative and dispatch facilities (DMV, DOT, etc.); post offices).
- **Educational** (kindergarten through 12th grade, post-secondary institutions, training facilities): ~ 50 projects.
- **Historic Preservation/Renovation:** including U.S. Forest Service's Zephyr Cove Resort Campground and RV Park, Zephyr Cove, Nevada: Rehabilitation (built in 1920's; award-winning project).
- **Hotels, Casinos, Motels:** including 11 renovations for Harrah's Tahoe Hotel-Casino, Stateline, Nevada.
- **Industrial, Mining and Warehousing:** including remodel/addition to Dura-Line Plant, Sparks, NV.
- **Medical** (hospitals, mental health facilities, health clinics, medical/dental office buildings, medical laboratories, etc.)
- **Military** (Marine Corps, National Guard, Navy): including 10 projects for NAS, Fallon, Nevada.
- **Recreational Facilities** (parks, picnic facilities, ballfields, fairgrounds, ski resorts, recreation areas, campgrounds/RV parks, U.S. Forest Service facilities, visitor centers, community centers/clubhouses, gyms/physical fitness facilities, ice skating rinks, swimming pools, tennis courts, museums, amphitheaters/stages/theaters).
- **Religious** (churches, chapels, wedding chapels).
- **Residential** (barracks, condominiums, apartments, housing developments, single family homes).
- **Non-airport Vehicular** (vehicle maintenance shops, DOT equipment buildings, bus system facilities, vocational/auto repair shops, parking garages/structures).

Years:

with Dinter Engineering:	18.3
with other firms:	14

Degree:

Junior Designer - 1976



Kevin B. Melrose - Electrical Project Manager: Mr. Melrose has over 15 years of electrical experience, having worked for several companies while attending school. He performed tasks such as evaluating electrical equipment (motors, switchgear, variable frequency drives) on a performance/cost basis,

gathering data for sound impact studies, assisting in the design of custom-built control panels for the oil and gas fields, and updating existing drawings on AutoCADD.

Years:

with Dinter Engineering: 13.5
with other firms: 2

Professional Registration:

Canada - C.E.T.

Degree:

Electrical Engineering Technology -
1995

After acquiring his Certified Engineering Technologist (C.E.T.) certification in 1995, Mr. Melrose joined Dinter Engineering's Electrical Department, bringing with him considerable knowledge in computer hardware and software as well as engineering. Kevin has worked on a variety of new and remodeled projects for Dinter Engineering, providing field investigations, design, calculations, cost estimating, as-building systems, and construction administration. In the last few years his work has focused on airport projects, specializing in apron lighting, security fencing and gates, automated access controls and card reader systems, and on municipal well and pumping station projects.

Project Examples:

- **Airports:** Beatty, NV; Casa Grande Muni., AZ; Chandler Muni., AZ; Chino, CA; Falcon Field, AZ; Flying Eagle Air Park Ranches, NV; Grand Canyon West, AZ; Henderson Exec., NV (2); McCarran Intl., NV (5); Oakland Intl., CA; Phoenix-Mesa Gateway, AZ (4); Reno-Stead, NV (3); Reno-Tahoe Intl., NV (8); Norman Y. Mineta San José Intl., CA (2); Scottsdale, AZ; Sedona, AZ; Silver Springs, NV; Southern California Logistics, CA; Truckee Tahoe, CA Tucson Ryan, AZ.
- 9 projects for **City of Fernley, Nevada** involving wells, water storage, pumps, lift stations, and wastewater treatment ponds.
- **Truckee-Tahoe Lumber Company**, Truckee, California: *Truckee Yard Material Storage Building.*
- **National Judicial College**, University of Nevada, Reno, Campus: *Remodel/Addition for Donald W. Reynolds National Center for the Courts and Media: Card Access System.*
- **High Desert State Prison**, Indian Springs, Nevada: *Transient Voltage Surge Suppression.*
- 3 projects for **University of Nevada, Reno**, including: *Phase I Security Upgrades for Ansari Business Bldg.*
- **Washoe County School District**, Reno, Nevada: *Three New High Schools (\$100 million).*
- **The Lodge at Tahoe-Donner**, Truckee, California (new, 9,500 sq.ft. clubhouse and Pro Shop).
- **Carson City Nugget**, Carson City, Nevada: *Remodel Theater/Lounge (in casino).*
- **Reno-Sparks Indian Colony**, Sparks, Nevada: *Improve Water System for Hungry Valley Pump Station.*
- **City of Sparks' Glendale/Meredith and Mary Wahl Pump Stations:** *Storm Drain Control Structures and Lift Station Design.*
- **Fallen Leaf Water System**, California: *US Forest Service Improvement Project Phase IA.*
- **Mineral County Library**, Hawthorne, Nevada: *Addition and Remodel.*
- 4 projects for **Northern Nevada Adult Mental Health Services**, Sparks, Nevada, including: *Dini-Townsend Psychiatric Hospital (new, 60,000 sq.ft., 90-bed psychiatric hospital).*
- **Veterans Affairs Carl T. Hayden Medical Center**, Phoenix, AZ: *Increase Electrical Distribution.*
- **Naval Air Station, Fallon**, Nevada: 3 task orders from 3 IDIQ contracts.
- **Defense Depot San Joaquin**, Tracy Site, CA: *Renovate Building 286, Bays 4, 5 and 6 (design/build).*
- **Indian Hills GID**, Carson City, Nevada: *Standby Generator System Enhancements.*
- **South Hills Christian Assembly**, Geiger Grade, Reno, Nevada.
- **Arizona Department of Revenue**, Phoenix, Arizona: *Elevator Modernization.*
- **City of Mesa, Arizona:** *Sossaman Road 16-inch Waterline - Pressure Reducing Valve (PRV) Station.*

Los Angeles International Airport, Los Angeles, California: **Midfield Satellite Concourse, Tom Bradley International Terminal Expansion – Task Order 1: Taxiway C-13, Taxiway D Extension and RON Apron** - Electrical engineering for the first of four new crossfield taxiways for a phased terminal development program to serve the new Airbus A380. (\$82 million)



- ➔ Taxiway edge and centerline LED lighting
- ➔ Signage
- ➔ Power, conduit, cable, handholes, etc.
- ➔ High-mast apron lighting
- ➔ Electrical service for RON apron and aircraft ramp services.

Prescott Municipal Airport, Ernest A. Love Field, Prescott, Arizona: **Taxiways D and F Lighting** - Electrical design. *This was a test project designed with new LED taxiway edge lights, LED RGLs, and new CCR technology provided by Crouse-Hinds Airport Lighting Products in conjunction with the FAA AND-520 Team, who were evaluating a standard design to use a 5 kV circuit with LED taxiway lights. FAA engineers estimate the LED system could reduce energy use by as much as 50 to 80 percent each year.* (\$850,000)



- ➔ Replace existing stake-mounted taxiway edge lights with base-mounted LED fixtures
- ➔ New conduit & conductors
- ➔ New guidance signs
- ➔ New constant current regulator (CCR)
- ➔ 14 new elevated LED Runway Guard Lights (RGLs)
- ➔ New ALCMS for existing vault building, mini-vault and FAA ATCT.

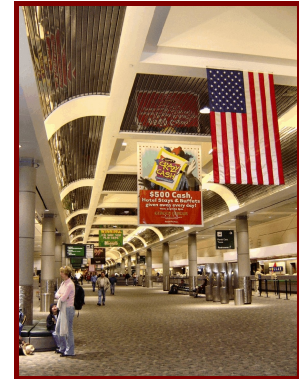
Southern California Logistics Airport, Victorville, California: **Airfield Electrical Systems Upgrade and Vault** - Prime A-E for design and construction observation services. (\$2.8 million)



- ➔ Replace runway and taxiway lighting and signage systems
- ➔ Relocate Glide Slope (GS)
- ➔ New power feeds to all NAVAIDS (Localizer (LOC), VOR-DME, GS, AWOS)
- ➔ New fiber optic communications link for all NAVAIDS (LOC, VOR-DME, GS, AWOS)
- ➔ New PAPI for Runway 3-21
- ➔ Replace apron lights
- ➔ Apron lighting pole reconfiguration for ALCMS control and interface
- ➔ Expand and relocate existing Siemens ALCMS
- ➔ New electrical vault building (with backup generator; switchgear-style regulator system compatible with existing ALCMS; power, control and monitoring systems for NAVAIDS (REILs); and HVAC

Fast-Track: *We successfully completed design in just 10 weeks from initial field investigation through bid documents for a complete electrical upgrade (lights, signs, cables, etc.) for the airport, which features a 15,000-foot runway, a 10,000-foot runway, 30,000 feet of taxiway, a complete new vault building, 5 miles of fiber optic cable, new control and communication interface and upgrades, and new generators and power equipment.*

Reno-Tahoe International Airport, Reno, Nevada: **Baggage Claim Expansion, Phases 1 and 2** - Electrical design and construction observation services for the phased expansion of the baggage claim area. Our work included providing utility relocation and conveyor system power/control requirements and coordination drawings. The project transformed the existing single-story structure into a two-story building, doubling its square footage. (\$6.5 million)



Oakland International Airport, Oakland, California: **New Airfield Lighting Facility** - Prime A-E for design of a new 5,000 sq.ft. airfield lighting building with a regulator room, generator room, day tanks and rollup door access, a facility yard with parking, covered storage and above-grade tank, and an extension of the Airport's 12 kV distribution system. (\$5.5 million)



Reno-Tahoe International Airport, Reno, Nevada: **Integrated In-Line Explosive Detection System Project** - Mechanical and electrical design and construction observation services for three phases of work involving 96,395 sq.ft. for expansion and remodeling of the airport ticketing lobby/baggage make-up areas to accommodate the installation of a state-of-the-art, space-conserving, in-line baggage conveyance and screening system utilizing Explosive Detection System (EDS) and Explosive Trace Detection (ETD) equipment behind the ticketing counter. (\$59 million)



Reno-Tahoe International Airport, Reno, Nevada: **New Aircraft Rescue and Fire Fighting (ARFF) Facility** - Mechanical and electrical design and construction observation services for a new 25,000 sq.ft., single-story ARFF facility with dormitories, day room, commercial-style kitchen, dining room, exercise room, offices, conference/training room, gear/equipment storage, five double-length apparatus bays, etc. (\$11.7 million)



☆Penta Building Group won "2008 PINNACLE Award" from *Nevada Chapter of Associated General Contractors* for "Over \$5 million" category for *excellence in project management*.

Reno-Tahoe International Airport, Reno, Nevada: **New Parking Structure and Roadway Improvements** - Mechanical and electrical design and construction observation services for new 750,000 sq.ft., 3-level parking facility for 2,400 automobiles and rental car counters, meeting rooms, office space, and a glass-enclosed pedestrian skywalk and tunnel. (\$23 million)



Phoenix-Mesa Gateway Airport, Mesa, Arizona (previously Williams Gateway Airport; former Williams Air Force Base): **Fire Protection System, Phases I and II** - Electrical review/evaluation, design and construction observation services to provide electrical service, controls, SCADA telemetry, and remote monitoring for six 350 HP pumps with a 1,750 kW generator (Phase I) and four 300 HP pumps with a 1,000 kW generator (Phase II) and electrical service for a chlorination system. The design criteria required a single engine unit capable of starting five of the six pumps on staggered start sequence. (\$4.3 million)



Southern Desert Correctional Center and High Desert State Prison, Indian Springs, Nevada: **Emergency Generators Replacement** - Prime A-E for investigation, testing, design and construction observation services to connect a High Desert State Prison (HDSP) emergency system to a 12.47 kV transformer that reduces feeder voltage to 4.16 kV to provide a backup power source for the prison in the event of power failure. (\$494,591)



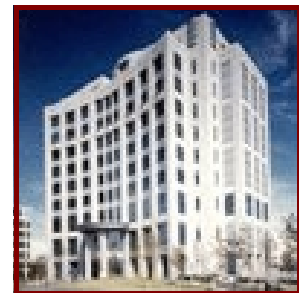
Washoe County Jail Complex, Reno, Nevada: **Medium Security Expansion** - Mechanical and electrical design and construction observation services for the addition of four 64-bed housing units to increase the medium security jail capacity by 256 inmates and provide additional support facilities. (\$10 million)



Nevada State Legislative Complex, Carson City, Nevada: **Expansion/Renovation** - Electrical design and construction observation services for a four-story addition of 92,000 sq.ft. to the existing 104,000 sq.ft. Legislative Building to add offices and two large hearing rooms and for a remodel of 58,602 sq.ft. (\$16 million)



The Bruce R. Thompson U.S. Courthouse and Federal Building for General Services Administration, South Virginia Street, Reno, Nevada - Electrical design and construction observation services for a new 195,500 sq.ft. high-rise building for offices and federal court rooms totaling ten floors plus a penthouse and a 43,600 sq.ft. underground, secure parking garage. (\$31 million)



☆ This facility was counted by the Washington D.C.-based American Institute of Architects (AIA) as one of the Top 10 designed courthouses in the nation--recognized for aesthetic and security reasons--and earned *Nevada AIA Excellence in Design Awards* for 1997, 1998 and 2000.

National Judicial College, University of Nevada, Reno, Campus: **Remodel/Addition for Donald W. Reynolds National Center for the Courts and Media** - Electrical design and construction observation services for a 31,337 sq.ft. addition to the Judicial College building and for a remodel of 27,383 sq.ft. of the existing college facility. Our work included design of an extension of the University's 25 kV power distribution system; parking lot and site lighting and controls; special isolated power systems for data equipment; a LAN system; MATV system; and a central command center to control security electronics consisting of a network card access system with local programming computer station, video surveillance of controlled doors and a system interlock to the fire alarm system. (\$6.1 million)



Washoe County School District; Reno, Nevada: **Expansion of Spanish Springs and North Valleys High Schools** - Mechanical and electrical design and construction observation services for 29,000 sq.ft. additions to each school for more classrooms, computer and science laboratories, and special education spaces and for 1,057 sq.ft. additions for sports officials' restroom/shower areas, with each school contract bidding separately. (\$13.4 million)



Sierra Nevada College, Incline Village, Nevada: **Prim Library and Learning Resource Center** - Mechanical and electrical design and construction observation services to for a new 32,132 sq.ft., three-story multipurpose library facility with state-of-the-art computer technology and energy-saving features. (\$8 million)



- ▶ underfloor radiant heating system
- ▶ air conditioning system utilizing outdoor air for warm weather cooling and tempering for ventilation during winter operation
- ▶ humidity control
- ▶ smoke control system for Atrium classification
- ▶ hydronic snowmelt system for 8,000 sq.ft. of outside walkways
- ▶ HVAC systems for elevator equipment room
- ▶ elevator pit sump pump
- ▶ plumbing fixtures meeting latest ADA standards, low-consumption type for water conservation, with back flow prevention
- ▶ wet pipe sprinkler systems throughout with glycol sub-loops or dry systems provided for freeze-prone areas
- ▶ technology data and security system raceways
- ▶ fire alarm/detection systems.

Desert Research Institute, Reno, Nevada: **Northern Nevada Science Center** - Electrical design and construction observation services for a new 65,000 sq.ft. laboratory building with 40,000 sq.ft. of finished spaces for high tech labs, offices, a library, conference/seminar rooms and related facilities. (\$9.7 million)
☆This facility earned *Nevada AIA Excellence in Design Awards* for 1997 through 2000.



Washoe County School District; Reno, Nevada: **Three New High Schools** - Mechanical and electrical design and construction observation services to design a prototype 255,000 sq.ft. high school for 1,725 students and site adapt the plans for new **Spanish Springs, North Valleys** and **Damonte Ranch** high schools. (\$100 million)



Squaw Valley Public Service District, Olympic Valley, California: **Fire Station and Administration Center** - Mechanical and electrical design and construction observation services for a new two-story, 27,000 sq.ft. fire station and public services building for Administration, Utilities, and Fire Departments. (\$7.2 million)



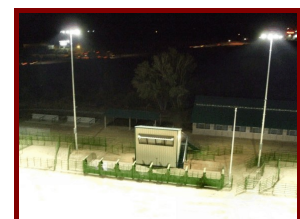
Sparks Fire Stations No. 2, 3 and 4, Sparks, Nevada: **Nederman Vehicle Exhaust Systems** - Prime A-E for mechanical and electrical design and construction observation services. (\$173,228) ★ *“Excellent Quality”* commendation by City of Sparks for all aspects of the projects.



Kal Kan Foods' Western Dry Facility, east of Sparks, Nevada - Mechanical and electrical design and construction observation services for a new, 110,000 sq.ft. pet food manufacturing plant. (\$10 million)



Carson City Parks and Recreation Department, Carson City, Nevada: **Fuji Park Phase 4, Part 2 (Buildings and Frontage Road)** - Mechanical and electrical design and construction observation services for the announcer’s booth, rodeo arena, restroom building, multipurpose barn, site power distribution, and site lighting using Musco’s latest “Green Lighting System,” which utilizes cut-off fixtures that comply with IES night-time friendly recommendations. (\$1,850,000)



Carson City Parks and Recreation Dept., Carson City, Nevada: **Governor's Field Lighting Replacement** - Electrical design and construction observation services to replace the existing lights and poles for two Babe Ruth and four Little League baseball fields using the latest version of Musco Lighting's "Green" (energy-friendly) design. (\$1 million)



Southern Nevada Adult Mental Health Services, Las Vegas, Nevada: **Rawson-Neal Psychiatric Hospital** - Electrical design and construction observation services for a new 117,000 sq.ft., single-story, 190-bed psychiatric hospital. (\$43.6 million)

- ▶ Scan Pen personal duress system,
- ▶ Card reader access control,
- ▶ Closed circuit television (CCTV) surveillance,
- ▶ Specialized intercom systems,
- ▶ 1750 kW standby generator,
- ▶ Lightning and transient voltage surge suppression (TVSS) protective devices for all critical power, signal, control, communication, and security equipment to guard against Southern Nevada's increased lightning risk factor.

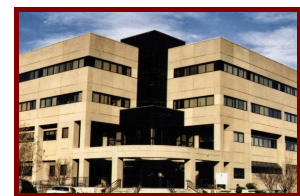


VA Sierra Nevada Health Care System, Reno, Nevada: **Building #1 HVAC System Replacement** - Prime A-E for design and construction observation services for a phased renovation project to replace the antiquated HVAC system in a 132,000 sq.ft., six-story, 68-year-old building for administrative offices, dental services, clinical lab, and hospital kitchen and Morgue, Pathology, BioHazard, and Audiology Departments. (\$15.8 million)



Elm Street Professional Medical Office Building for St. Mary's Health Network, Reno, Nevada - Mechanical and electrical design and construction observation services for a new 4-story, 74,000 sq.ft. medical office building with 23,000 sq.ft. outpatient surgery center. (\$14 million)

★Lighting design award



Naval Air Weapons Station, China Lake, California: **Design-Build Repair Flightline Lighting Electrical Distribution System [part of Dry Utilities Multiple Award Contract Construction (MACC)]** - Electrical design and construction observation services to repair and upgrade the runway and taxiway lighting systems and regulator vault. (\$6.6 million)



El Centro Naval Air Facility, El Centro, California: **Design/Build Lighting for Simulated Aircraft Carrier Deck with Landing Lights and Helicopter Landing Pad** - Electrical design.



Grand Forks Air Force Base, North Dakota: **Construction Quality Assurance Observation Services for Runway Reconstruction** - Electrical inspections and quality assurance (QA) observations of the construction of the airfield electrical systems for a reconstructed 12,351-foot-long by 150-foot-wide runway. Our work involved QA inspection of all electrical installations in conjunction with the runway reconstruction including runway edge lighting, new threshold lights and approach lighting within overrun and review of submittals and as-built drawings.



Nevada National Guard State Area Readiness Command Complex, Carson City, Nevada: **New Armory/Headquarters (OTAG) Building** - Mechanical and electrical advance planning, design and construction observation services for a new 78,683 sq.ft., two-story building to consolidate Guard functions and house five Guard units for supply, administration and training functions. (\$8.6 million)



Nevada Army National Guard, Reno Stead Airport, Reno, Nevada: **Washoe County Armory** - Mechanical and electrical design and construction observation services for a new 55,766 sq.ft. armory building with assembly hall, administrative offices, kitchen, etc. (\$4.6 million)



Naval Air Station, Fallon, Nevada: **Replace High Voltage Transformer Banks at 15 Sites** - Electrical design and construction observation services to replace aging 4160 volt, oil-filled station-type overhead and grade-mounted transformer assemblies with new pad-mounted service transformers. Our work included reconstructing secondary service conductors and demolition of existing transformers. (\$575,000)



The William F. Harrah Foundation National Automobile Museum, Reno, Nevada - Electrical concept, master plan, design and construction observation services for new 96,000 sq.ft. auto exhibit hall with facilities for classic car restoration, exhibition and storage; office areas; reference collection library; gift shop; information/ticket booth; entrance lobby; 128-seat multi-media theater; and a separate food service facility and catering kitchen. (\$4.3 million)



Wingfield Park, Reno, Nevada: **Truckee River Recreation Plan Phase I - Whitewater Park at Wingfield: Park Lighting and Power Systems** - Electrical design and construction observation services to support a 2,600-foot-long kayak course for the first component of a 24-mile-long whitewater park along the Truckee River. (\$1.5 million)



Awards for design of Wingfield Whitewater Park for the City of Reno, Nevada, in conjunction with Kennedy/Jenks Consultants:

★ *American Council of Engineering Companies (ACEC-Nevada)'s Engineering Excellence* Honor Award on the basis of uniqueness and originality, technical value to the engineering profession, social and economic considerations, complexity, and meeting the needs of the client, including time and budget constraints. (The project was a state honor award and a national finalist.)

★ *Nevada Commission on Tourism's Nevada State Development/Entrepreneurial Award.*

★ *American Public Works Association (APWA-Nevada)'s Small Project Award.*

Projects for **U.S. Forest Service**, Lake Tahoe Basin, California and Nevada:

▪ **Taylor Creek Visitor Center**, Lake Tahoe, California: **Lake of the Sky Amphitheater Rehabilitation and Site Lighting Improvements** - Electrical design of power and lighting for a remodeled outdoor stage with a new dressing room and storage room, new stage floodlights, pathway bollard lights, bench lights and new pole lights. (\$421,245) ☆ **"2006 Best in Basin"** award in Public Facility Rebuild category from Tahoe Regional Planning Association (TRPA) for excellence for design effectiveness, ease of maintenance, types of materials used and overall visual quality.



▪ **Zephyr Cove Resort Campground and RV Park**, Zephyr Cove, Nevada: **Rehabilitation** - Mechanical and electrical design and construction observation services to redevelop a 172-acre aging facility originally built in the 1920's to bring up to current standards and place all utilities underground. Our work included design for a new Operations Building, a stand-alone two-unit restroom/shower building, and Four Seasons Building. (\$3.2 million) ☆ **"2003 Best in Basin"** award in recreation category from TRPA for design effectiveness, ease of maintenance, types of materials used and overall visual quality.



Immaculate Conception Church, Sparks, Nevada - Electrical design and construction observation services for a Design/Assist project for a new 43,000 sq.ft. church with a sanctuary seating 1,000 for Mass and a multipurpose hall with a kitchen, offices, classrooms, daycare, library, other support spaces. (\$7.8 million)

★ *Southwest Contractor's "Best of Nevada 2005 Award" for Private Building Project over \$5 million*

★ *Q & D Construction, Inc., won "2005 PINNACLE Award" from Nevada Chapter of Associated General Contractors for "Over \$5 million" category for sensitivity to environment/history/culture.*



Projects for **Park Avenue Development**, South Lake Tahoe, California:

■ **Park Avenue Streetscape Improvements** - Electrical design and construction observation services to light the city right-of-way along Park Avenue, Lake Tahoe Blvd., Van Sickle Road and Transit Blvd. and the walkways around the hotels by providing site and landscape lighting and electrical, landscape receptacles, power for the fountains and irrigation controllers, and removing lights. (\$4.1 million)

■ **Park Avenue Streetscape: Lighting Revisions** - Electrical design to change light locations, transformers' voltages, re-design a service pedestal, revise electrical load information for the fountain, and provide power to irrigation controllers for Phase II construction of a City of South Lake Tahoe redevelopment project. (\$4.9 million)



14 Remodeling Projects for Harrah's Tahoe Hotel-Casino, Stateline, Nevada - Mechanical and electrical studies, design and construction observation services for a variety of projects involving an arcade, Center Stage, stairwells, employee cafeteria, wedding chapel, keno station, Club Cappuccino, a master plan for 39,000 sq.ft. of demolition work and 50,000 sq.ft. of new construction, casino floor remodeling, commissary kitchen, American River Café, Friday's Station, and laundry sorting room. (Over \$5 million)



Circus Circus Hotel Casino, Reno, Nevada: **Parking Structure** - Plumbing design for deck drainage and a 5,000-gallon sand/oil interceptor for a new 700,000 sq.ft., six-story parking garage with 1,814 spaces. (\$20 million)



Carson Valley Inn, Minden, Nevada - Mechanical and electrical design and construction observation services for a new 100,000 sq.ft., 102-unit hotel-casino. (\$7 million)



Y2A Office Building, Ironwood Drive, Minden, Nevada - Mechanical and electrical design and construction observation services for a new 30,330 sq.ft., three-story office building with four 2,000 sq.ft. tenant spaces per floor. (\$3.7 million)

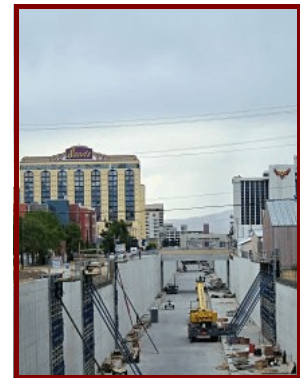


Phoenix Sky Harbor International Airport, Phoenix, Arizona: Automated Train Fixed Facilities - Mechanical and electrical design of facilities for a phased new passenger train system with elevated guideways, elevated stations and a Maintenance and Storage Facility with an Automated Train Central Control Facility. (Stage 1: \$370 million; total project: \$800 million)



Projects for **Truckee Meadows Reno Transportation Rail Access Corridor (ReTRAC)**, Reno, Nevada:

- **Phase I - Project Management** - Mechanical and electrical engineering for work related to relocating 2.25 miles of two sets of Union Pacific Railroad tracks to eliminate 11 railroad crossings through downtown Reno. This Phase I work produced an RFP document for the selection of design/build firms. (\$282 million) ★ *Southwest Contractor's "Best of Nevada 2005 Award" for Transportation Project*; ★ *American Public Works Association 2007 award "Public Works Project of the Year" in Transportation category, more than \$100 million range*
- **Study for Reno Railroad Corridor** - Mechanical and electrical engineering to assist in the preparation of an Environmental Impact Statement, examine rail alignment options, assist the City of Reno in the selection of a preferred alignment option, and provide preliminary engineering of the preferred rail alignment option. This complex job required working closely with the utility companies to design and estimate the costs for temporary and permanent relocations to coincide with the train trench construction. Systems included SPPCO power, Nevada Bell telephone, Charter Cable TV, MCI and QWest fiber optics, SPPCO natural gas, and the Kinder Morgan high pressure fuel line.



Somerset II Development, Reno, Nevada: **HVAC for Booster Pump Station** - Mechanical design and construction observation services to provide HVAC systems for a new pressure booster pump station. (Mechanical portion: \$27,000)



References

Name and Address	Contact	Telephone Number
Airport Consultants Council 908 King Street, Suite 100 Alexandria, Virginia 22314	<i>Paula Hochstetler</i> Executive Director	703/683-5900
Associated Engineers, Inc. A Division of Parsons Brinckerhoff 3311 E. Shelby Street Ontario, California 91764-4872	<i>James J. "Jim" Imborski</i> Executive Vice President <i>Chuck McCormick</i> Airport Consultant	909/980-1982
Ronald Beyer, Architect 2515 Park Marina Drive, Suite 205 Redding, California 96001	<i>Ron Beyer</i>	530/241-7067
Building Concepts, Inc. 1478 4th Street Minden, Nevada 89423	<i>Dennis Freitas, AIA</i>	775/782-8886
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Dibble Engineering 7500 North Dreamy Draw Drive, Suite 200 Phoenix, Arizona 85020-4660	<i>Kenneth L. "Ken" Snyder, P.E.</i> Vice President, Airport Infrastructure	602/957-1158
Gannett Fleming, Inc. 4722 N. 24th Street, Suite 250 Phoenix, Arizona 85016-4852	<i>John R. Kenny, P.E.</i> Vice President	602/553-8817, extension 202
Gannett Fleming, Inc. APM Project Office 500 South 24th Street 500 South Building Phoenix, Arizona 85034	<i>Mark P. Pilwallis, P.E.</i>	602/683-2717
Ganthner Melby LLC 5190 Neil Road, Suite 231 Reno, Nevada 89502	<i>Terrence "Terry" Melby, AIA</i> Principal Architect	775/829-8814
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References

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City of Long Beach Department of Public Works Bureau of Engineering, 9th Floor City Hall 333 W. Ocean Blvd. Long Beach, California 90802-4664	<i>Jeffrey A. "Jeff" Sedlak, P.E.</i> Civil Engineer	562/570-6046
Lumos and Associates, Inc. 800 E. College Parkway Carson City, Nevada 89706-0628	<i>Thomas "Tom" Young, P.E.</i> Project Engineer	775/883-7077
MACTEC Engineering & Consulting, Inc. 961 Matley Lane, Suite 110 Reno, Nevada 89502-2139	<i>Stuart E. Dykins, P.E.</i> Vice President Nevada Regional Manager	775/329-6123
U.S. Dept. of the Navy Public Works Engineering, Building 307 Naval Air Station Fallon, Nevada 89496	<i>Del Pursel, EIC</i> Public Works Department	775/426-2398
U.S. Dept. of the Navy ROICC Office Bldg. 307, 2 nd Floor Naval Air Station Fallon, Nevada 89406-5000	<i>Belinda L. Bratcher</i> Contracting Officer	775/426-2926
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References

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Nevada Dept. of Transportation 1263 S. Stewart Street Carson City, Nevada 89712	<i>Bill Schulz</i> Architecture	775/888-7950
NEI 335 E. Street, Suite B Chula Vista, CA 91910	<i>Eric Barajas</i>	619/425-0513
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Reno-Stead Airport Reno-Tahoe Airport Authority P. O. Box 12490 Reno, Nevada 89510	<i>R. L. "Skip" Polak</i> Airport Manager	775/328-6570
Reno-Tahoe Airport Authority Reno-Tahoe International Airport P. O. Box 12490 Reno, Nevada 89510-2490	<i>Ms. Kryss T. Bart, CAE/AAE</i> Executive Director	775/328-6402
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	<i>David "Dave" Lazo, P.E.</i> Manager of Engineering and Construction	775/328-6458
	<i>Allan K. Eckle, P.E.</i> Special Projects Coordinator	775/772-8518
Royal Electric Company 8481 Carbide Court Sacramento, California 95828	<i>Eric Gardner</i> Chief Estimator (Airports)	916/399-6201
Ryan Group Architects 10800 Donner Pass Road, #200 Truckee, California 96161	<i>Scott Ryan, AIA</i> Principal Architect <i>Brendan Riley</i>	530/587-3800
County of San Bernardino Dept. of Airports 825 E. Third Street, Suite 203 San Bernardino, California 92415-0831	<i>James E. Jenkins, Jr.</i> Deputy Director	909/387-7800



References

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The City of San José Public Works Dept. Planning and Development Division Norman Y. Mineta San José International Airport 1732 N. First Street, Suite 400 San José, California 95112-4538	<i>Kevin E. Spinks, P.E.</i>	408/501-0466
Southern California Logistics Airport Authority 18374 Phantom West Victorville, California 92394	<i>Peter R. Soderquist, A.A.E.</i> Airport Director <i>Victor J. Fajardo, P.E.</i> Associate Civil Engineer	760/243-1900 760/243-6311
Stantec Consulting Inc. 6980 Sierra Center Parkway, Suite 100 Reno, Nevada 89511	<i>Franklin G. "Frank" Alverson II, P.E., PTOE</i> ; Principal <i>John J. Welsh, P.E.</i> , Principal	775/850-0777
TRC Solutions, Inc. 4875 Longley Lane, Suite 100 Reno, Nevada 89502	<i>Michael P. Bidart, P.E.</i>	775/322-3064
University of Nevada, Reno Facilities Services/182 Reno, Nevada 89557-0057	<i>Dean Borges, P.E.</i> Mechanical Engineer <i>John Walsh, AIA</i> Director, Construction Services <i>Marcella Yeates - Architect</i>	775/784-6514
URS Corporation 7720 North 16th Street, Suite 100 Phoenix, Arizona 85020	<i>James L. "Jim" Cooke, P.E.</i> Associate Vice President <i>Bruce K. Loev, P.E.</i> Principal Airport Engineer	602/371-1100
URS Corporation Century Square Building 1501 4th Avenue, Suite 1400 Seattle, Washington 98101-1616	<i>Shammi S. Ratti P.E.</i> Senior Airport Civil Engineer	206/438-2228
Ward-Young Architecture & Planning 12010 Donner Pass Road, Suite 201 Truckee, California 96161	<i>Larry Young, AIA</i> Principal <i>Ron Larkin</i> Architect Associate	530/587-3859



References

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Z & H Engineering, Inc. 9200 East Pima Center Parkway, Suite 240 Scottsdale, Arizona 85258	<i>Lance R. McIntosh, P.E.</i> President <i>Jessica L. Mullen, P.E.</i> Principal Engineer	602/997-7536



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