



Engineering Confidence.
Airfield
Electrical
Mechanical

Statement of Qualifications:



Dinter - Reno Office



Dinter - Phoenix Office



**Dinter
Engineering Confidence**

2009

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General Overview

Dinter Engineering Company

Consulting Engineers for Mechanical, Electrical and Airfield Electrical Systems

Dinter Engineering Company 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 Dinter opened a branch office in Phoenix, Arizona, in 2006 and another in Coeur d'Alene, Idaho, in 2009.

The firm's experience is extensive, with over 4,200 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:

- | | |
|--|--|
| T Investigations and reports | T Consultation during bidding and construction phases |
| T Testing and evaluating | T Construction observation and support |
| T Feasibility studies and master plans | T "As-built" plans and documents |
| T Energy audits | T "Design/Build" contractor design assistance |
| T Plan checking | |
| T Engineer's Reports | |
| T Designs, drawings, specifications and cost opinions | |

Stability: Dinter'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. These staff members coordinate effectively in-house, resulting in the best possible product delivered on time and within budget. The firm's long history of such service, coupled with a continuous, competent work record and key personnel retention, has 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: Dinter 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:

- | | |
|---|---|
| T Heating, ventilating, and air conditioning (HVAC) for institutional, commercial, and industrial applications | T Central plants (boilers/chillers)Co-generation systems |
| | T Steam heating and process |



General Overview

Mechanical/Plumbing (continued):

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

Electrical:

- T** Power transmission and distribution, substations and generating plants
- T** Building power (design and evaluation)
- T** Standby generator and uninterruptible power supply (UPS)
- T** Emergency power circuits for submersible sump pumps
- T** Power service for concrete containment pads for mixing fire retardant
- T** Power for automatic roll-up doors
- T** Special power for computer systems, including local area network (LAN)
- T** Fiber optics
- T** Wire management
- T** Lighting, interior, with controls and dimming systems
- T** Lighting, exterior, with controls for roadways, parks, aprons, and parking lots
- T** Intercom, paging, and nurse call
- T** Fire alarm and detection
- T** Building security and access
- T** Prison security and control
- T** Security electronics, including personal duress alarms, card access, prison locking, and facility control panels
- T** Security fencing and automatic gates
- T** Intrusion detection (IDS)
- T** Closed circuit television (CCTV)
- T** Clock and program
- T** Television distribution and utilization
- T** Master antenna television distribution
- T** Communications, telephones, data, and voice outlets with Category 6 wiring
- T** Energy management
- T** Pump station controls and control telemetry, including Supervisory Control and Data Acquisition (SCADA).

General Overview

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

- Runways, taxiways, aprons/ramps, and helicopter landing pads (helipads)
- Navigational and visual aids, such as PAPIs, REILs, approach lighting systems, ILS, GS, LOC, and DME
- Beacons and wind cones/wind socks
- Airfield mandatory/directional/guidance signage
- Weather stations (AWOS and ASOS)
- Airfield lighting control and monitoring systems (ALCMS)--computerized and analog
- 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, 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. Dinter has received many awards from utility companies for our energy-efficient designs in both mechanical and electrical engineering disciplines.



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

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

General Overview

Design/Build: Dinter Engineering has been involved in design/build work for many years. Examples include:

T Nellis Air Force Base, Las Vegas, Nevada: Design and Repair Various 58th Para RQS Facilities in Area II

T 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)]

T El Centro Naval Air Facility, El Centro, California: Design/Build Lighting for Simulated Aircraft Carrier Deck with Landing Lights and Helicopter Landing Pad

T Defense Depot San Joaquin [Sharpe Defense Depot], Tracy Site, California: Renovate Building 286, Bays 4, 5 and 6

T Design/Build Projects for Naval Air Station, Fallon, Nevada:

- < Design/Build Taxiways B, F, G - Lighting Upgrade
- < 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

T Brown Field Municipal Airport, San Diego, California: Design/Build Fuel Lines

T Norman Y. Mineta San José International Airport, San José, California: Renzel Airfield Taxiways Y and Z Improvements

T Los Angeles International Airport, Los Angeles, California: Airport-wide Computer Airfield Lighting Control and Monitoring System Upgrade

T Phoenix Sky Harbor International Airport, Phoenix, Arizona: S2 Concourse Apron Development/ Taxiway D Reconstruction

T Pulliam Airport, Flagstaff, Arizona: GA Box, T- and Shade Hangar Infrastructure and Design

T The Boys & Girls Club of Western Nevada, Carson City, Nevada: New Facility

T Northern Nevada Adult Mental Health Services, Sparks, Nevada: Dini-Townsend Hospital - Design-Build East Wing Remodel

T Flying Eagle Air Park Ranches, Washoe County, Nevada

T Camp Grizzly Creek, Portola, California: Campground, Phase I Buildings

T Truckee Police Station, Truckee, California: Remodel



Nellis AFB



NAS Fallon



Boys & Girls Club

General Overview

- T** Nevada Department of Motor Vehicles & Public Safety/Nevada Highway Patrol State Office Building Complex, Elko, Nevada
- T** Carson City Public Works, Butti Way, Carson City, Nevada: Renovate Electrical Service in Building #7
- T** The Metropolitan at Cupertino, Cupertino, California: HVAC and Plumbing Systems
- T** University of Nevada, Reno: Frandsen Humanities Building: Retrofit Security and Fire Alarm Systems



The Metro



Reno ReTRAC

- T** 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

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. The firm operates three departments – **Mechanical**, **Electrical** and **Airfield Electrical** – from which drafting and technical personnel may be pulled to meet surge workload demands on another department.

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

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 (AAAAE)
- American Association of Airport Executives - South Central Chapter (AAAAE-SCC)
- Northwest Chapter of the American Association of Airport Executives (NWAAAAE)
- Southwest Chapter American Association of Airport Executives, Inc. (SWAAAAE)
- 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)

Key Personnel



Years:

with Dinter Engineering: 13.9

Professional Registration:

Nevada P.E. No. 018326

Degree: B.S.

Electrical Engineering - 2001

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 41 different airports and 10 former or current military air bases nationwide.

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*.

Project Experience:

- **El Centro Naval Air Facility**, El Centro, California: *Design/Build Lighting for Simulated Aircraft Carrier Deck with Landing Lights and Helicopter Landing Pad.*
- **MCAS, Camp Pendleton**, California: *Repair of Bravo (formerly known as Alpha) Taxiway.*
- **Naval Air Weapons Station (NAWS), China Lake**, California: *Design-Build Repair Flightline Lighting Electrical Distribution System.*
- **Grand Forks Air Force Base**, North Dakota: *Construction Quality Assurance Observation Services for Runway Reconstruction.*
- **Projects for Naval Air Station, Fallon**, Nevada:
 - < *Design/Build Taxiway E, CALA Ramp, and Aprons for Hangars 3, 4 and 7.*
 - < *Insulation Resistance Monitoring System (IRMS) and Wave-off Lighting for Runway 13L-31R.*
- **Klamath Falls Airport**, Klamath Falls, Oregon (former Air Force Base and presently Air National Guard Base): *Various Airport Improvements.*
- 3 projects for **Phoenix-Mesa Gateway Airport**, Mesa, Arizona (former Williams Air Force Base).
- 3 projects for **Southern California Logistics Airport** (former George Air Force Base), Victorville, CA, including: *Airfield Electrical Systems Upgrade and Vault (Fast-Track: design was completed in just 10 weeks from initial field investigation through bid documents for complete electrical upgrade for airport).*
- **Pocatello Regional Airport**, Pocatello, Idaho (former Army Air Base): *Runway 3-21 Improvements.*
- 3 projects for **Los Angeles International Airport**, Los Angeles, California, including:
 - < *Midfield Satellite Concourse (MSC), Tom Bradley International Terminal (TBIT) Expansion – Task Order 1: Taxiway C-13, Taxiway D Extension & RON Apron.*
- **Idaho Falls Regional Airport**, Idaho Falls, Idaho: *Runway 2/20 Rehabilitation.*
- 4 projects for **Colorado Springs Airport**, Colorado Springs, Colorado.
- 6 projects for **Reno-Stead Airport** (Army National Guard Base), Reno, Nevada.
- 13 projects for **Reno-Tahoe International Airport**, Reno, Nevada (Air National Guard Base).
- 12 projects for **McCarran International Airport**, Las Vegas, Nevada.
- 3 projects for **Phoenix Sky Harbor International Airport**, Phoenix, Arizona.
- 5 projects for **Norman Y. Mineta San José International Airport**, San José, California.
- **Tallahassee Regional Airport**, Tallahassee, Florida: *Runway 9/27 Reconstruction and Correction of Line of Sight.*

Key Personnel



Years:

with Dinter Engineering: 32.5
with other firms: 10

Education:

Electrical Engineering - 1973

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.

Mr. Hackbusch's work experience includes design of high and medium voltage distribution systems; standby generation and controls, computer facilities' distribution; tele/data communications and fiber optics; pumping control systems, and special signal and security electronics systems required for 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 20 years and has been involved with projects of all sizes up to construction cost of \$800 million. He is currently electrical project manager for the new Phoenix International Airport Sky Train.

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

- **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, USFS facilities, visitor centers, gyms, 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.

Key Personnel



Years:

with Dinter Engineering: 8.5
with other firms: 13

Professional Registration:

Electrical Engineering P.E. in
multiple states

Degree: B.S.

Electrical Engineering - 1993

Tim A. Prockish - Executive Vice President / Manager of Idaho Office and of Electrical Department / Electrical Engineer:

Mr. Prockish has more than 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.

Tim 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. He is presently Dinter's Project Manager for recent projects for the Naval Air Station in Fallon, Nevada.

Mr. Prockish is particularly experienced in airport work, having done projects to date for 40 different airports/air bases in nine states. He is a member of six airport-related professional organizations.

Project Experience:

- **Airports:** 92 projects for 34 airports and 6 military air bases in AZ, CA, CO, FL, ID, ND, NV, TX & WA.
- **Bank of America**, 50 W. Liberty, Reno, Nevada: *Remodel Suite 880.*
- **Shasta Head Start Facility**, Anderson, California (new preschool building).
- **Desiderio Property**, Sun Valley, 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, NV: *Transient Voltage Surge Suppression - Phase I.*
- 3 projects for **Truckee Police Station**, Truckee, California, including: *Remodel* (design/build).
- **Reno-Sparks Indian Colony**, Sparks, NV: *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).
- **Defense Depot San Joaquin**, Tracy Site, CA: *Renovate Building 286, Bays 4, 5 and 6* (Design/Build)

Key Personnel



Years:

with Dinter Engineering: 14.3
with other firms: 21

Professional Registration:

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

Degree: B.S.

Mechanical Engineering - 1974

Thomas P. Federici - Principal and Manager of Mechanical Department / Mechanical Engineer: Mr. Federici has over 35 years' experience in engineering. He 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.

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:** 36 projects for 9 airports and 2 military air bases in AZ, CA, NV, and TX .
- **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., 2-story building).
- * **Circus-Circus Hotel-Casino**, Reno, Nevada: 1,000-room Tower and Casino Addition (prior to Dinter).

Key Personnel



Years:

with Dinter Engineering: 10
with other firms: 3.2

Professional Registration:

Mechanical Engineering P.E. in
multiple states

Degree: B.S.

Mechanical Engineering - 1999

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

Mr. Myres' experience includes 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, where he is now a key staff member in the firm's mechanical department. His duties include designing HVAC, plumbing, and fire protection systems, performing calculations, AutoCAD work, cost estimating, specification writing and managing mechanical production.

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 Experience:

- 5 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 for 132,000 sq.ft., six-story, 68-year-old building.)
- **Nellis Air Force Base**, Las Vegas, Nevada: *Design and Repair Various 58th Para RQS Facilities in Area II* [Design/build project to repair/refurbish six buildings of former federal prison work camp.]
- **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.*
- 7 jail projects including: **Washoe County Jail**, Reno, Nevada: *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**: *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 USPF0 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* [design/build remodel 131,000 sq.ft. warehouse and 1,000 sq.ft. office & restroom.]

Key Personnel



Donald Y. West - Mechanical Engineer: Mr. West has nearly eleven 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: 3.1
with other firms: 7.7

Professional Registration:

Mechanical Engineering P.E. in multiple states

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).

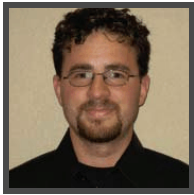
Project Experience:

- **Phoenix Sky Harbor International Airport**, Phoenix, Arizona: *PHX Sky Train*.
- **Brown Field Municipal Airport**, San Diego, California: *Design/Build Fuel Lines*.
- **Reno-Tahoe International Airport**, Reno, Nevada: *Integrated In-Line Explosive Detection System (Airport Baggage Check-in) Project*.
- **City of Reno Police Department**, Reno, NV: *Main Police Station HVAC Replacement* (Prime A-E.)
- **Arizona Department of Revenue**, Phoenix, Arizona: *Elevator Modernization*.
- **Foothills Community Park**, Goodyear, Arizona: *Aquatic Facility*.
- **Regional Transportation Commission of Washoe County**, Reno, Nevada: *RTC Ride and RTC Access Facilities: Seismic Gas Shutoff Valves*.
- **Silver Peak Grill & Taproom on the River**, Reno, Nevada: *Modification and Reconfiguration of Kitchen Hood Exhaust for the Parking Gallery Ventilation System* (Prime A-E for City of Reno.)
- **University of Nevada, Reno: Fleischmann Agriculture Building #032: Environmental Controls Upgrade for Rooms 135, 137, 137B, Animal Laboratory** (Prime A-E.)
- **Lamoreaux Marketplace**, Phoenix, Arizona (eight 3,000 sq.ft. tenant spaces in new building.)
- **Arizona State Veterans Home**, Phoenix, Arizona: *Dining Room Remodel Expansion*.

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 new elementary and intermediate schools in Fernley.
- * **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).

Key Personnel



Years:

with Dinter Engineering: .5
with other firms: 9

Professional Registration:

Electrical Engineering P.E. in
Arizona (No. 49025) and
LEED® Accredited Professional

Degree: B.S.

Marine Engineering Systems
(minor in Electrical Engineering) -
2004

Peter M. Syntax, LEED^{AP} - Electrical Engineer: Mr. Syntax has over 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. Mr. Syntax currently heads up the Electrical Department for Dinter Engineering Company's Phoenix office.

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

Project Experience (prior to Dinter Engineering employment):

- * **APS Deer Valley Operations Building**, Phoenix, Arizona (new \$85 million, multi-story, 220,000 sq.ft.)
- * 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. basketball practice facility.)
- * **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. remodel.)
- * **Best Buy**, Durate, 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 & Cultural Center**, Phoenix, AZ: *Feasibility Study & Renovation*.
- * **Las Vegas Convention Center**, Las Vegas, Nevada (\$890 million; three million sq.ft.)
- * **The Rock Teen Center**, Phoenix, Arizona (new two-story, 26,000 sq.ft. multipurpose.)
- * **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.)

Key Personnel



Years:

with Dinter Engineering: 18.5
with other firms: 14

Degree:

Junior Designer - 1976

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 and is currently assistant manager of the Electrical Department.

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

- 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.

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

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

- **Airports:** 78 projects for 12 airports and 2 military air bases located in AZ, CA, NV, and UT.
- **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).

Key Personnel



Years:

with Dinter Engineering: 13.9
with other firms: 2

Professional Registration:

Canada - C.E.T.

Degree:

Electrical Engineering Technology
- 1995

Kevin B. Melrose - Electrical Project Manager: Mr. Melrose has nearly 16 years of electrical experience performing field investigations, design, calculations, cost estimating, as-building systems, and construction administration tasks. After acquiring his Certified Engineering Technologist (C.E.T.) certification, 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. His military experience includes projects for the Naval Air Station in Fallon, Nevada (part of three separate IDIQ contracts) and the Defense Depot San Joaquin. His other federal work includes projects for the U.S.D.A. Forest Service, U.S. Postal Service (part of an IDIQ contract), and the Department of Veterans Affairs.

In the last few years Mr. Melrose's 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 Experience:

- **Airports:** 38 projects for 20 airports located in AZ, CA, and NV.
- 3 projects (from 3 different IDIQ contracts) for **Naval Air Station, Fallon, Nevada**, including:
 - < *Building 311 - Water Pump Station System Upgrade.*
- **Defense Depot San Joaquin** [Sharpe Defense Depot], Tracy Site, California: *Renovate Building 286, Bays 4, 5 and 6* (design/build).
- **Nellis Air Force Base**, Las Vegas, Nevada: *Design and Repair Various 58th Para RQS Facilities in Area II* (design/build project to repair/refurbish six buildings of former federal prison work camp.)
- **U.S. Post Office, Vassar Street, Reno, Nevada:** *Investigation for Security Upgrades* (IDIQ Contract).
- **Fallen Leaf Water System**, California: *US Forest Service Improvement Project Phase IA.*
- **Dept. of Veterans Affairs Carl T. Hayden Medical Center**, Phoenix, Arizona: *Increase Electrical Distribution* (upgrade for entire medical center.)
- **City of Mesa, Arizona:** *Sossaman Road 16-inch Waterline - Pressure Reducing Valve (PRV) Station.*
- **Downtown Phoenix Public Market**, Phoenix, Arizona (public market space with shade structures.)
- 9 projects for **City of Fernley, Nevada**, including:
 - < *Well #14 Municipal Pumping Facility* (power, lighting, SCADA and telemetry control systems.)
 - < *Foothills of Fernley Subdivision: Water Storage Tank and Pressure Reducing Station.*
- **Indian Hills General Improvement District**, Carson City, Nevada: *Package Lift Station and Emergency Power Installation.*
- **Arizona Department of Revenue**, Phoenix, Arizona: *Elevator Modernization.*
- 2 projects for **Economic Security Buildings, 1300 & 1400 West Washington**, Phoenix, Arizona, including: *Replace Electrical Service Entrance, Main Panels and Conduit Feeder.*
- 5 projects for **Northern Nevada Adult Mental Health Services**, Sparks, Nevada.
- **Southern Nevada Adult Mental Health Services**, Las Vegas, Nevada: *Rawson-Neal Psychiatric Hospital* (new 117,000 sq.ft., single-story, 190-bed psychiatric hospital.)
- **Mineral County Library**, Hawthorne, Nevada: *Addition and Remodel.*