

CURRICULUM VITAE

THOMAS H. BURTNESSE, PE, BSEE



Tom Burtness

Contact Information:

Email: tom@burtnesseng.com

Office: 2195 Wagon Trail Rd., White Heath, IL 61884

217-687-2000 Office

217-898-8000 Cell

Website: www.burtnessengineering.com/forensic

AREAS OF EXPERTISE

Electrical engineering, lighting and illumination engineering (roadway, street, parking lot, and area lighting) including photometric requirements and site evaluation, industrial and roadway accidents and injury, electrical power (including LV, MV, & HV), electrical controls & instrumentation (SCADA), electrical equipment and machinery installations and failure, fire and explosion cause and origin, electrocution, electrical construction, construction defects, construction contract disputes, and construction project management disputes. In addition to deposition and trial testimony, some of the forensic services that I provide include consulting, case file review, site investigations including protocol development, cause and origin determination, technical and investigative report writing, and attorney prep for interrogatories, discovery, deposition, and trial.

PROFESSIONAL QUALIFICATIONS

EDUCATION

University of Illinois at Urbana - Champaign,
Bachelor of Science in Electrical Engineering, 1976
Plumbing Design Course, University of Wisconsin, 1982
Numerous CEU to support active registrations (see listing below)

ACTIVE REGISTRATIONS

Illinois Licensed Professional Engineer, 1983, License No. 062.040946
Alabama Licensed Professional Engineer, License No. 35831
Indiana Licensed Professional Engineer, License No. PE11600219
Florida Licensed Professional Engineer, License No. 76442
Louisiana Licensed Professional Engineer, License No. 40711
Massachusetts Licensed Professional Engineer, License No. 48045
New York Licensed Professional Engineer, License No. 96955
Texas Licensed Professional Engineer, License No. 122891
Washington State Licensed Professional Engineer, License No. 50766
Wisconsin Licensed Professional Engineer, License No. 40389-006

(Registration in Other Jurisdictions Available by Comity)

TRADE QUALIFICATION

Licensed Electrician, Urbana Illinois, 1976 – 2004

EXPERT WITNESS

I have served as an insurance investigator and consultant since 1978, and as a forensic engineer and expert witness since 1983.

**PROFESSIONAL
MEMBERSHIPS**

Illuminating Engineering Society of North America (IES)
IES Street and Area Lighting Committee
IES Central Illinois Section, Board Manager, 2014-2015
Institute of Electrical and Electronics Engineers – IEEE
National Council of Examiners for Engineering & Surveying – NCEES
National Fire Protection Association – NFPA
Eta Kappa Nu, Electrical Engineering Honors Society, 1975

PROFESSIONAL EXPERIENCE

EMPLOYMENT HISTORY

1984 to Present

Burtness Engineering Services

As the Owner and Chief Engineer of this MEP consulting engineering firm, I have been responsible for all aspects of the firm's operations, both technical and administrative. See complete description below.

1981 to 1984

Sandhu, Dennis & Assoc, P.C.

As Senior Project Engineer, I served in responsible charge of the technical aspects of all electrical power, control, lighting, and instrumentation projects as well as HVAC and plumbing projects and insurance investigations. I also managed the technical and financial aspects of the firm's engineering staff, including budgeting, personnel, billing, marketing, and client development.

1973 to 1981

Burtness Electrical Contracting, Inc.

I served as President and Licensed Electrician for this electrical and general contracting firm that specialized in multi-family housing, churches, commercial establishments and light to medium industrial work.

**PROFESSIONAL
PRESENTATIONS GIVEN**

“Control System Automation for Water Treatment Plants.” Hydraulic Engineers Luncheon Presentation, Sept 16, 1998, Champaign, IL.

“Are LED Streetlights Ready For Prime Time?” Presentation to the American Public Works Association, Champaign Branch, February 15, 2008, Champaign, Illinois.

“Are LED Streetlights Ready For Prime Time?” Presentation to the American Public Works Association, Prairie Branch, June 18, 2010, Decatur, Illinois.

“LED's, Plasma, Induction, Oh My! Emerging Technologies in Street and Area Lighting.” American Public Works Association, Illinois Chapter 2010 Conference Presentation, May 6, 2010, Peoria, Illinois.

“Navigating the Inevitable Adoption of LED Streetlights.” 100th Annual Illinois Transportation and Highway Engineering Conference Presentation, March 25, 2014, University of Illinois, Champaign, Illinois.

“Maximize Your Savings! Strategies to Economically Justify Your LED Lighting Installations.” Conference Presentation, LED Specifier Summit, October 21, 2014, Chicago, Illinois.

“University of Illinois Campustown – Economic Development Benefits of Street Lighting Design.” IES – Central Illinois Section Presentation, March 11, 2015, Champaign, Illinois.

Numerous Formal Presentations to City Councils and at Public Meetings.

EXPERT WITNESS QUALIFICATIONS

My value as an expert witness comes from over 40 years of real world experience with the design, selection and specification, code and standard conformance and compliance, installation, system integration, equipment startup, troubleshooting, and failure analysis of electrical power, illumination, control & instrumentation systems (SCADA) and industrial equipment and machinery.

As a licensed electrician for many years, and then as a consulting engineer, I have specified and/or installed thousands of electrical, illumination, and instrumentation & controls (SCADA) equipment installations in residential, commercial, industrial, municipal, and utility occupancies.

This depth of real world experience has served as a practical foundation for the numerous forensic investigations I have conducted, and for site analysis of equipment installations, accidents, injuries, failures, and fires.

In addition, I am a seasoned technical and contract writer, having written hundreds of construction contracts and specifications, as well as numerous investigative, master planning, O&M, and forensic reports.

One of my strengths is the investigative process. I am detailed and thorough, enabling me to unearth both technical and documentation facts of the case that others often miss, thus assisting me in drilling down the chain of causation to identify root causes.

PROFESSIONAL EXPERIENCE

My core technical experience in the built environment includes electrical power and distribution (including Medium and High Voltage); lighting and illumination engineering; and control, instrumentation, SCADA, and HMI (Human-Machine Interface) systems. I have designed over 300 water and sewer treatment facilities, each with dozens to hundreds of pieces of equipment, all needing power and control systems. Additional technical experience includes residential and commercial plumbing, heating, ventilating, air conditioning; and mechanical engineering and construction.

My experience also includes expert witness and forensic services including both litigation and insurance investigation services.

My construction industry engineering experience is in all aspects of engineering, contract preparation, and project management in the design-build construction process and I have been responsible for: RFP and RFQ (Tender) preparation and response; proposal and contract preparation; establishment of pre-design criteria and project requirements; conducting stakeholder collaborative needs assessment workshops; site/field surveys and studies; preliminary design studies; alternative solution analyses; code compliance investigations; inter-disciplinary coordination; neighborhood citizen committee interaction and liaison; design, contract document and specification preparation; material quantity takeoffs (Bills of Material – BOM) / Bills of Quantity – BOQ) / Summaries of Quantity – SOQ); Opinions of Probable Construction Costs (OPC); analysis and verification of cost estimates, billings, and applications for payment; life-cycle cost analyses; value engineering; contract management and administration; system integration; construction scheduling and sequencing; on-site construction observation and conflict resolution; shop drawing review; initiating and processing client purchase orders; long term purchase agreements; operation and maintenance manual preparation; start-up assistance, testing, calibration, troubleshooting, adjustment, and maintenance; as well as energy conservation surveys and design.

A member of the Illuminating Engineering Society's Street and Area Lighting Committee, I have completed dozens of illumination engineering projects, particularly in the area of outdoor municipal street and parking area lighting. One of my specialty areas involves central business district streetscape lighting installations that have proven to be a critical element for economic revitalization.

I am experienced in the field of industrial instrumentation and control systems, and as the designer and/or system integrator, I have completed numerous municipal and industrial projects involving flow, level, pressure, pH, temperature (and similar parameters), instrumentation, multi-loop control, PLC based control, SCADA, and HMI operator interface computer based systems.

I am experienced in the design of commercial plumbing and HVAC systems. For example, while working as Chief Engineer for construction administration of a major renovation project for a 6 story genetic engineering laboratory at the University of Illinois, Chicago campus, my work involved observing the installation, coordination, testing, balancing, calibration and adjustment of control components and systems for proper operation and energy conservation in several HVAC systems, including VAV, multi-zone, and HEPA filtration systems on laboratory hazardous vent hoods.

I have also written in-depth reports, including forensic reports, municipal master planning documents, and study reports; as well as operation, maintenance, and testing manuals.

I have experience in working with a wide variety of clientele including numerous architectural and engineering firms; governmental authorities, municipalities; consulting firms; attorneys; insurance companies; individuals; homeowners; small business owners; light, medium, and heavy industrial firms; utilities; the U.S. Environmental Protection Agency; the U.S. Army; the U.S. Air Force; the US Farmer's Home Administration; the State of Illinois Capital Development Board; and the Army Corps of Engineers. I have worked cooperatively with numerous utility companies as well as local, county, state and federal authorities.

CONTINUING EDUCATION COURSES TAKEN

Engineering Project Management (20 PDH), University of Wisconsin, June 2006
Computer Aided Exterior Lighting Design (6 PDH), Illuminating Engineering Society, Sept 2007
IES Street and Area Lighting Courses (16 PDH), Illuminating Engineering Society, Sept 2007
LED Lighting Course (6.5 PDH), Illuminating Engineering Society, Sept 2009
IES Street and Area Lighting Courses (17 PDH), Illuminating Engineering Society, Sept 2009
Risk Drivers Loss Prevention & Risk Management (2 PDH), XL Insurance, Nov 2010
Mergers & Acquisitions for Engineering Firms (14 PDH), PSMJ Resources, Sept 2011
IES Street and Area Lighting Courses (16 PDH), Illuminating Engineering Society, Sept 2012
Outdoor Lighting Controls (4 PDH), Illuminating Engineering Society, Sept 2012
IES Street and Area Lighting Courses (16 PDH), Illuminating Engineering Society, Sept 2013
Computer Aided Exterior Lighting Design (6 PDH), Illuminating Engineering Society, Sept 2013
LED Reality Check, LED Specifier Summit (1 PDH), Nov 2013
Lighting Commissioning, LED Specifier Summit (1 PDH), Nov 2013
Successful Expert Witness Practice (14 PDH), SEAK, Inc., April 2014
National Expert Witness Conference (13 PDH), SEAK, Inc., April 2014
IES Street and Area Lighting Courses (16 PDH), Illuminating Engineering Society, Sept 2014
Outdoor Lighting Controls (6 PDH), Illuminating Engineering Society, Sept 2014
Existing Buildings & LED Upgrades (1 PDH), LED Specifier Summit, Oct 2014
Applying Lighting for Visual Performance (1 PDH), LED Specifier Summit, Oct 2014
The LED Revolution is Over (1 PDH), LED Specifier Summit, Oct 2014
LED Lighting and Controls, LED Specifier Summit (1 PDH), Oct 2014
Laws, Rules & Ethics for Florida PE's (4 PDH), Ezekiel Enterprises, Feb 2015
Law for Experts (14 PDH), SEAK, Inc., April 2015
National Expert Witness Conference (14 PDH), SEAK, Inc., April 2015
Fire Investigation Certificate (8 PDH), Investigative Engineers Association, May 2015
Forensic Engineering Training (19 PDH), Investigative Engineers Association, May 2015
Forensic Engineering Convention (21.25 PDH), Investigative Engineers Association, Oct 2015
Midwest Regional Expert Witness Workshop (7.5 PDH), Forensic Expert Witness Assoc, Dec 2015
Advanced Trial Skills Workshop for Expert Witnesses (14 PDH), SEAK, Inc., May 2016
National Expert Witness Conference (14 PDH), SEAK, Inc., May 2016

A SAMPLING OF FORENSIC ENGAGEMENTS

Key:

IE = Investigative Engineer Assignment

P = Plaintiff Engagement

D = Defense Engagement

Pre-Litigation Investigations – and/or Settled Out of Court

Armstrong Lumber Company Electrical Panel Failure, Urbana, IL – 1978 (IE)
Kraft/Humko Food Mfr Corp – Coffee Creamer Packaging Line Safety Seal Failure – 1983 (IE)
Dial Soap Manufacturing Corp – Steam Boiler Internal Vessel Damage (IE)
University of Illinois Abbott Power Station – Sulphur Scrubber Failure – 1987 (IE)
Danville Single Family Residence – Utility Transformer Induced Fire (IE)
Gray Chiropractic Clinic X-Ray Machine Failure – 1991 (IE)
Tuscola Video Store Fire – Tuscola, Illinois – 1991 (IE)
Drake v Illinois Power, Single Family Residence, Utility Induced Fire – Champaign, IL – 1991 (P)

Cabot Chemical Manufacturing Corporation – Karbate Vessel Disintegration – 1992 (D)
Quick Single Family Residence Fire – Villa Grove, Illinois – 1992 (IE)
Joines Well Pump Branch Circuit Failure, Hindsboro, Illinois – 1993 (IE)
Sisk Supermarket Electrical Service Fire – Arcola, Illinois – 1993 (IE)
Recontek Waste Recycling Scrubber Failures – Newman, Illinois – 1994 (IE)
Hoopeston Sewer Plant Flooding, Hoopeston, IL – 1994 (IE)
Plastipak Inc. Injection Molding Factory, 15KV Distribution Equipment Explosion – 1995 (IE)
Getz Single Family Residence Intermittent Power Failure – Urbana, Illinois – 1996 (IE)
Campbell Residence Electrical Fire and Primary Cable Explosion Urbana, IL – 1996 (IE)
Stockland Grain Elevator – Grain Silo Distribution Panel Fire – 1997 (IE)
Bidner Farm Steel Disintegration from Natural Gas Pipeline Cathodic Protection – 1997 (IE)
Paul Single Family Residence Lightning Induced Fire, Monticello, Illinois – 1997 (IE)
Hoopeston Illinois Water Plant Instrumentation Failure due to Lightning Strike – 1997 (IE)
Industrial Scrubber Fire, Memphis, TN – Mechanical Component Failure – 2014 (D)
Double Electrocution, Wellman, Iowa – 7.2 kV Contact – 2015 (P)
Crop-duster Severs High Voltage Line – 2014 (IE)
Residential Fire/Smoke Damage Investigation, Mahomet, IL – 2015 (IE)
Bowling Alley Service Connection Damage, Springfield, IL – 2015 (IE)
Strip Mall Retail Store Fire, Appleton, Arkansas – 2015 (IE)
Residential Electrical Fire, Colmar, Illinois – 2016 (IE)
Pickup Truck Fire, Sunman, Indiana – 2016 (IE)
Numerous other insurance and forensic investigations, most commonly to determine root cause.

Deposition Witness – Settled Pre-Trial

Lighting Contractor – Contractor Negligence – Liquidated Damages, Breach of Contract – 2004 (D)
60 Story Building Security System Installation – Breach of Contract Claim – 2014 (D)
Fertilizer Manufacturer – Industrial Amputation due to Controls Failure – 2015 (D)
Residential Contractor Quality Dispute – Construction Contract Claim – 2015 (P,D)
Trucking Company – Slip & Fall Injury – Illumination Case – 2015 (P)
Industrial Injury – Exploding Electrical Equipment, \$7,000,000 settlement – 2016 (P)
Man Lift Worker Electrocution – High Voltage Electrical – 2016 (P)
Electrical Contractor Breach of Contract Regarding Overages – 2106 (P)

Deposition and/or Witness at Trial

Milk Distributor – Route Driver Electrocution – 1995 (D)
Shopping Mall Shooting – Fact Witness at Trial

Current Ongoing Cases

41 Vehicle Accident – Illumination Case (P)
Municipal Reservoir Pumping Station – SCADA System Case – Tank Rupture (D)
Copper & Brass Manufacturer – Double Amputation – Illumination Case (D)
Pedestrian Injured by Pickup Truck – Illumination Case (P)
Double Fatality in Construction Zone – Illumination Case (P)
Pedestrian Fatality in Parking Lot – Illumination Case (P)
Construction Worker Injury – Illumination Case (D)
Residential Light Trespass – Illumination Case (P)
High Voltage Electrical Explosion – Electrical Power Case (D)

ILLUMINATION ENGINEERING PROJECTS

Street, Roadway, and Parking Lot Illumination Projects:

City of Urbana 22 Downtown Parking Lots LED Lighting Replacement, Urbana, IL. 2012
City of Urbana Race Street UHS Lighting Replacement, Urbana, IL. 2013
Town of Barnstable Street Lighting Master Plan, Hyannis, MA. 2007.
Town of Barnstable Main Street Lighting Design, Hyannis, MA. 2008.
Town of Barnstable HYCC Parking Lot Lighting, Hyannis MA. 2008.
Town of Barnstable Bearse's Way Roundabout Lighting, Hyannis MA. 2009.
Town of Barnstable Prioritized Lighting Action Plan, Hyannis MA. 2009.
Town of Barnstable Walkway To The Sea Lighting. 2010.
City of Champaign Street Lighting Master Plan. Chief Lighting and Electrical Engineer. 1993.
North Prospect Avenue. City of Champaign Street Lighting. 1994.
Marketview Drive. City of Champaign Street Lighting. 1994.
Northwood 4th Subdivision. City of Champaign Street Lighting. 1994.
City of Champaign Area 4B Residential Series Street Lighting Replacement. Const: 1996.
City of Champaign Boneyard Creek LAMAR Project Street/Walkway Lighting. Const: 1998.
City of Champaign Area 4A Residential Series Street Lighting Replacement. Design: 2000.
City of Champaign East Side Streetscape Project Phase I. Construction: 2000-01.
City of Champaign 2002 Alley & Parkette Project. Construction: 2002.
City of Champaign Campustown Infrastructure and Streetscape Project. Constr. 2002-3.
Residential Series Streetlight Modernization, Zone 2. Urbana, IL. Const: 1998.
Residential Series Streetlight Modernization, Zone 3B. Urbana, IL. Const: 1999.
Residential Series Streetlight Modernization, Zone 3A. Urbana, IL. Const: 1999.
Residential Series Streetlight Modernization, Zone 3C. Urbana, IL. Const. 2000.
Residential Series Streetlight Modernization, Zone 3B – Phase 2. Urbana, IL. Const. 2003.
Urbana Downtown Streetscape/Streetlighting Phase IV. Urbana, IL. Const. 2002.
Urbana Downtown Streetscape/Streetlighting Phase V. Urbana, IL. Const. 2003.
Engineering Quad Lighting. University of Illinois. Construction: 1995.
City of Tuscola Downtown Streetscape Project. Construction: 2000 and 2003.
City of Chenoa, Illinois Streetscape Lighting. Construction: 1998.
Village of Ivesdale, Illinois Streetscape Lighting. Construction: 2000.
Village of Monticello, Illinois Streetscape Lighting. Construction: 2000.
Emmanuel Memorial Episcopal Church, Champaign, Illinois. Parking lot lighting. 1996.
Numerous parking lot lighting installations.

Sports Lighting Projects:

Sullivan Civic Center Inspection & Renovation Project. Sullivan, Illinois. 1999-2000.
Atkins Tennis Center Indoor Tennis Court Lighting Modifications. Univ. of Illinois, 1997.
University of Illinois Baseball Stadium Lighting Design Review. Fall 1996.
University of Illinois Outdoor Tennis Facilities Renovation. Completed 1993.

Industrial/Commercial Lighting Projects:

First State Bank of Monticello Drive-up Addition. Monticello, Illinois. 1999-2000.
Tactical Vehicle Repair Facility at Fort Knox, Kentucky. 1983.
Energy Conservation Lighting Retrofit. Kraft/Humko Food Products, Champaign, IL. 1982.
Plantwide Lighting Survey (50 acre). Quantum Chemical, Tuscola, Illinois. 1989.

Grien Candy Factory, Robinson, Illinois. 1979.
Heath & Sons Candy Factory, Robinson, Illinois. 1976.
Indoor and outdoor lighting design at over 50 water and wastewater treatment facilities.

Architectural Lighting Projects:

Temple Baptist Church, Champaign, Illinois. Sanctuary and exterior lighting design. 1992.
Air Force Museum, Dayton, Ohio. Complete electrical and lighting design. 1985.
Cross County Mall Restaurant, Charleston, Illinois. 1978.
Diamond Dave's Taco Restaurant, Market Place Mall. 1983.
New Covenant Fellowship. Sanctuary and classroom renovation. 1992.
Vineyard Christian Fellowship Gymnasium / Multipurpose building. 1996.

HIGH VOLTAGE POWER DISTRIBUTION PROJECTS

Saline Valley Conservancy District Regional Water Facility, Harrisburg, Illinois. 1981.
Tactical Vehicle Repair Facility at Fort Knox, Kentucky. 1983.
Nabisco-Chuckles Substation Replacement. Danville, Illinois. 1984.
Naperville East Side Water System Pressure Improvements. Naperville, Illinois. 1985.
Air Force Museum, Dayton, Ohio. Complete electrical and lighting design. 1985.
Peterson/Puritan, Inc. Pretreatment Facilities. Danville, Illinois. 1988.
Mendota WWTP Reconstruction, Electrical and Controls. Mendota, Illinois. 1994.
U-C Sanitary District Plant Redesign and Co-Generation Facilities. Urbana, Illinois. 1998.
Plastipak, Plant High Voltage Distribution System Redesign. Champaign, Illinois. 1999.

ELECTRICAL POWER AND CONTROLS (SCADA), HVAC AND PLUMBING - WATER TREATMENT FACILITIES

Mahomet Water Plant Control Modifications. Mahomet, Illinois. 2000.
Mahomet Wells Nos. 4 & 5 Upgrade. Mahomet, Illinois. 1999 - 2000.
Mahomet Water Plant PLC Programming. Mahomet, Illinois. 1998
Mahomet Water Plant – HSP Control Modifications. Mahomet, Illinois. 1998.
Heyworth Water Plant, Wells & Tower. Heyworth, Illinois. 1998.
Bement WTP Improvements. Bement, Illinois. 1998.
Lawrenceville Standpipe and Emergency Generator. Lawrenceville, Illinois. 1997.
Mahomet Water Tower and WTP Controls Modifications. Mahomet, Illinois. 1997.
Newman Water Tower and Well #5. Newman, Illinois. 1997.
Stone Creek Irrigation Well. Urbana, Illinois. 1997.
Ashkum Water Plant Electrical Controls Replacement. Ashkum, Illinois. 1996.
Hoopeston Water Plant Electrical Controls Replacement. Hoopeston, Illinois. 1996.
Oakland WTP Electrical Service and Controls Replacement. 1996.
Paxton Water Tower, Paxton, Illinois. 1996.
Sheldon Water Plant Well Replacement and Generator Relocation. Sheldon, Illinois. 1995.
Watska Well #6. Watska, Illinois. 1995.
Hartsburg Water Tower. Hartsburg, Illinois. 1994.
Danforth Water Treatment Plant Replacement. Danforth, Illinois. 1993.
Oakland WTP Clarifier Addition. Oakland, Illinois. 1993.
Bement Water Tower Replacement. Bement, Illinois. 1992.
Bement Well #3. Bement, Illinois. 1992.
Newman Water Plant Replacement. Newman, Illinois. 1992.

Alvin Water Plant Renovation and Controls Replacement. Alvin, Illinois. 1991.
Emington Water Plant Replacement. Emington, Illinois. 1991.
Paxton Water Treatment Plant, Paxton, Illinois. 1991.
Longview Water Plant. Longview, Illinois. 1990.
Fithian Wells #5 & #6. Fithian, Illinois. 1990.
Watseka Water Tower. Watseka, Illinois. 1990.
Blue Mound Water Plant Renovation. Blue Mound, Illinois. 1989.
Hoopeston Water Plant Emergency Generator. Hoopeston, Illinois. 1989.
Mahomet Water Well #5. Mahomet, Illinois. 1989.
Crescent City Water Tower and Generator. Crescent City, Illinois. 1988.
Pesotum Water Plant Improvements. Pesotum, Illinois. 1987.
Fairmount Water Plant Improvements. Fairmount, Illinois. 1986.
Pesotum Water Plant Renovation and Well Addition. Pesotum, Illinois. 1986.
Naperville East Side Water System Pressure Improvements. Naperville, Illinois. 1985.
Clifton WTP Improvements. Clifton, Illinois. 1984.
Rankin Water Treatment Plant Renovations. Rankin, Illinois. 1984.
Thomasboro Water Treatment Plant Improvements, Thomasboro, Illinois. 1984.
Sullivan Water Plant Renovation. Sullivan, Illinois. 1983.
Thomasboro Water Well #4, Thomasboro, Illinois. 1983.
Chanute Air Force Base Water Plant Renovation. Rantoul, Illinois. 1982.
Onarga Water Treatment Plant Improvements, Onarga, Illinois. 1982.
Saline Valley Conservancy District Regional Water Facility, Harrisburg, Illinois. 1981.

ELECTRICAL POWER AND CONTROLS (SCADA), HVAC AND PLUMBING - STORMWATER TREATMENT FACILITIES

Villa Grove Stormwater Flow System Improvement. Villa Grove, Illinois. 1999.
City of Champaign Boneyard Creek Data Acquisition System. Champaign, Illinois. 1998.
Healey Street Detention Basin and Pump Station. Champaign, Illinois. 1997.
Dorner Drive Retention Basin. Urbana, Illinois. 1996.
North Point Stormwater Pumping Station. Champaign, Illinois. 1993.

ELECTRICAL POWER AND CONTROLS (SCADA), HVAC AND PLUMBING - WASTEWATER TREATMENT FACILITIES

U-C Sanitary District Station F MCC Replacement. Urbana, Illinois. 2002-2003.
U-C Sanitary District Station X MCC Replacement. Urbana, Illinois. 2001-2002.
U-C Sanitary District Station S MCC Replacement. Urbana, Illinois. 2000-2001.
U-C Sanitary District SCADA System Review. Urbana-Champaign, Illinois. 2000.
University of Illinois Swine Research Pump Station. Urbana, Illinois. 1999.
Watseka STP Influent Pump Control Modifications. Watseka, Illinois. 1999.
Mahomet STP Stand-by Generators. Mahomet, Illinois. 1998.
Mahomet STP Mudwell Panel. Mahomet, Illinois. 1998.
U-C Sanitary District Long Range Planning. Urbana, Illinois. 1998.
Paxton STP Excess Flow Transport & Treatment Facilities. Paxton, Illinois. 1998.
Mahomet STP Filter Panel Programming. Mahomet, Illinois. 1997.
Georgetown Pump Station. Georgetown, Illinois. 1997.
Watseka Wastewater Plant Renovation, Oxidation process Addition, Plant Automation and

Instrument and Electrical Controls Replacement. Watseka, Illinois. 1997.
Hoopeston Wastewater Plant Renovation, Filter Building Addition, Plant Automation, and Instrument and Electrical Controls Replacement. Hoopeston, Illinois. 1997.
Mahomet WWTP Filter Panel Controls Replacement. Mahomet, Illinois. 1997.
Sam Dale Lake Conservation Area Sewer Facilities. Wayne County, Illinois. 1997.
Watsseka Wastewater Plant Renovations and Instrument and Control System Replacement. Watsseka, Illinois. 1997.
Bond Street Lift Station and Controls Replacement. Bement, Illinois. 1996.
Mahomet STP Alarm Upgrade and Filter Panel. Mahomet, Illinois. 1996.
Lakes at Riverbend Pump Station. Mahomet, Illinois. 1996.
Tolono Linshar Fields Pump Station. Tolono, Illinois. 1996.
Watsseka Mulberry Street Lift Station for Combined Sewer System. Watsseka, Illinois. 1995.
Mendota WWTP Reconstruction, Electrical and Controls. Mendota, Illinois. 1994.
Tilton King Street Pump Station. Tilton, Illinois. 1994.
Hoopeston Route 1 Lift Station. Hoopeston, Illinois. 1993.
Robeson Meadows Pump Station and Generator. Champaign, Illinois. 1993.
Tilton Central Park Pump Station. Tilton, Illinois. 1993.
Cushman Street Lift Station. Bement, Illinois. 1991.
North Point Sewage Lift Station. Champaign, Illinois. 1991.
Peterson/Puritan, Inc. Pretreatment Facilities. Danville, Illinois. 1988.
Peterson/Puritan, Inc. Grape Creek Pump Station. Danville, Illinois. 1988.
Rankin Wastewater Treatment Plant Replacement. Rankin, Illinois. 1988.
Hoopeston Wastewater Plant Excess Flow Facilities. Hoopeston, Illinois. 1987.
Hutsonville WWTP Renovation. Hutsonville, Illinois. 1987.
Tilton Wastewater Plant Renovation. Tilton, Illinois. 1987.
Monticello Wastewater Plant Filter Building. Monticello, Illinois. 1987.
Tilton Linden Street Pump Station. Tilton, Illinois. 1987.
Atwood Sewer Plant Renovation. Atwood, Illinois. 1986.
Monticello Wastewater Plant Revisions and Additions. Monticello, Illinois. 1986.
Mahomet Wastewater Plant Replacement. Mahomet, Illinois. 1985.

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