

# **JAMES A. WILSON, PE, LEED® AP**

*Senior Project Manager*

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## **Education**

B.S., Civil Engineering (Michigan Technological University, 1988)

## **Registration**

*Professional Engineer*

Michigan: 1993 (no. 38800)

Louisiana: 2010 (no. 35456)

## **Certifications**

- Leadership in Energy and Environment Design (LEED® AP), 2008

## **Affiliations**

- Louisiana Engineering Society
- American Society of Civil Engineers
- American Public Works Association
- ACEC

## **Relevant Project Experience**

### **Jefferson Parish, LA**

- *Sena Drive Drainage Improvements:* Project manager for design and construction of Phase I and Phase II of drainage improvements to Sena Drive, including 2700 LF of 48" to 60" RCPA drainage and 2700 LF of water, sewer and street improvements (2010-2014).
- *Sauve Road Drainage Improvements:* Project manager for design and construction of a 60 cfs (27,000 gpm) drainage pumping station, 2600 LF of 30" and 36" discharge forcemains and 60" gravity drainage. Project included extensive permitting and coordination for the Mississippi River levee crossing and discharge into the river, including the U.S. Corps of Engineers, Coastal Protection & Restoration of Louisiana (CPRA), DEQ, LA-DNR, Office of Coastal Management, U.S. Coast Guard and the East Jefferson Levee District (EJLD) (2011-2014).
- *Chetta Drive Sanitary Sewer Improvements:* Project manager for the design and construction of 2,700 LF of 8" gravity sewer in a previously unsewered area of Jefferson Parish (2012-2013).
- *Manhattan Boulevard Resurfacing Project:* Project manager for the design of asphalt resurfacing and concrete panel replacement in Manhattan Boulevard from Lapalco Blvd to Harvey Blvd (2012).
- *Lapalco Boulevard Improvements:* Project coordinator for the design of the Lapalco Boulevard widening improvements project from 900 feet west of Victory Drive to Tanglewood Drive (4,500 LF). Utilizing the existing roadway alignment, this project consists of the addition of a third lane in each direction with curb and gutter; drainage improvements; utility adjustments and asphalt pavement (2011-2012).
- *Cooper / Wilber Sewer Lift Station:* Project manager for the design of a replacement sewer lift

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station including 8" gravity sewer and miscellaneous street improvements (2013-2014).

- *Harahan Pump to the River*: Design engineer for two (2) drainage pump stations for the draining of the three – 72" diameter forcemains (2013).
- *Hoey's Pump to the River – Engineering Feasibility and Economic Analysis Report*: Engineer to determine alternates of physical location and route of drainage pumping station and discharge forcemains outletting into the Mississippi River, including preliminary construction quantities and cost estimates (2013).

## **City of Kenner, LA**

- *University City & Audubon Place Subdivision Drainage Improvements*: Project manager for the design and construction of drainage improvements including 1,200 LF of gravity drainage, and miscellaneous water and street improvements. Project was funded through the Statewide Flood Control Program (2013-2014).

## **City of Slidell, LA**

- *Carey Street Resurfacing*: Project manager for the design of asphalt resurfacing of an existing 225 LF concrete street, including drainage improvements and on street parking. (2012).

## **Mougeot Architects (Ascension Parish Government Complex), Gonzales, LA**

- *Government Complex Site Improvements*: Project manager for site improvements, including drainage, parking, sidewalks and site grading. (2013-2014).

## **NOLA Motorsports Park (Laney Chouest – Owner), Jefferson Parish, LA**

- *NOLA Motorsports Park*: Project manager for site development of 450-acre auto racetrack complex, including a go-kart track, miscellaneous service buildings, condominiums and other racetrack related facilities. Project included an overall site drainage study; design of access roads and parking areas, 8" water mains (22,315 LF), 8" sanitary sewer gravity mains (12,345 LF), multiple pump stations with forcemains (11,400

LF), various sized drainage facilities (15,150 LF); and an overall site grading plan (2010-2012).

## **Genesys Health Systems, Grand Blanc, MI**

- *Genesys Medical Center at Health Park*: Project manager for site development of 480-acre medical campus, including access roads, storm water facilities, water main, sanitary sewer, parking lots, improvements to existing county roads, and wetland mitigation. Responsible for permitting and receiving approvals from all regulatory agencies, direct coordination with the design team and construction administration with the construction manager (1993-1996).
- *Genesys Medical Center at Health Park Wetlands*: Project manager for delineating wetland boundaries and developing wetland mitigation plan for improvements and expansion to 480-acre medical campus (2006).
- *Master Planning of Vacant Property*: Project manager for the Master Planning and development of vacant property (north side of Pollock Road) on the 480-acre medical campus (2004).
- *New Office Building at 600 Health Park*: Project manager for site design and extension of utilities for a new office building on the 480-acre medical campus. Access roadway and utilities were designed for future expansion (2005).
- *Parking Lot Reconstruction*: Project manager for the reconstruction of the main public parking area to gain additional parking spaces (2003).
- *East Flint Campus Construction*: Project manager for new campus site design. Project included storm drainage design, parking lots, sidewalk, water and sanitary sewer extensions (2001).
- *MRI Facility*: Project manager for site plan development of MRI Facility on Genesys campus, including parking lots, drainage and utilities (1999).
- Project manager for 120-space parking lot expansion (1999).
- Project manager for paving of a fire lane behind the hospital building on the Grand Blanc campus (2008).

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- Project manager for miscellaneous drainage improvements throughout the Grand Blanc campus (2007).

### **Flint Cultural Center Corporation / Sasaki Associates, Flint, MI**

- *Kearsley Streetscape*: Local consultant for Sasaki team that worked through extensive public and committee input process to explore streetscape concepts for 0.25 mile of Kearsley Street, through the Cultural Center campus. Issues included pedestrian, bicycle and vehicular circulation and traffic calming, special event functions, campus identity, site furnishings and landscape planning. Design development documents and grant application are being prepared for implementation (\$1.7M construction; 2006).

### **Village of Ovid, MI**

- *Raw Water Line*: QA/QC for design and construction of a 3,400-linear-foot raw water line which connects a remotely located well to existing iron filtration facility. Project included obtaining an MDEQ floodplain permit and designing system controls. Utilized CDBG funds (2006).

### **Private Client, Mayville, MI**

- *Campground*: Project manager for site plan and construction permit application. Project was a 96-lot campground with an on-site well and septic field. The property featured drastic grade changes that minimized storm sewer options and made bio-swales the optimal choice, when possible, reducing cost (2008).

### **City of Linden, MI**

- *South Broad Street Reconstruction*: Project manager for design and construction of 0.5 mile of road, including curb and gutter, milling and resurfacing, sidewalk, streetlights, and asphalt pavement (2006).
- *Sanitary Sewer Extension*: Project manager for design of 2 miles of new sanitary sewer for Hyatt Avenue, Blythe Avenue, and West Rolston Road (2004).

- *River District Trails (Phase One)*: Project manager for approximately 0.5 mile of 8-foot-wide boardwalk, featuring overlooks, benches, trash receptacles and bike racks, placed along the Shiawassee River in the City of Linden. This project was constructed adjacent to an existing children's playscape, and is the first phase of the city's overall River District Trails system (2003).
- *Water System Improvements*: Project manager for design of city water system improvements, including two new wells, raw water lines, and an arsenic removal treatment plant (2004).
- *Sharp's Parking Lot*: Project manager for design and construction of 14-space parking lot and rehabilitation of an existing lot. Project included storm drainage, lighting, landscaping and irrigation (2004).
- *Thimbleberry Parking Lot*: Project manager for design and construction of new 50-space parking lot in downtown business district. Project included storm drainage, lighting, dumpster enclosures, landscaping, irrigation, and water main replacement. Also required coordination with Consumers Energy to place overhead electrical services underground (2006).
- *North Bridge Street Reconstruction (Awarded 2004 Public Works Project of Year, Transportation Category, Less than \$2M Category, American Public Works Association)*: Project manager for design and construction engineering for 0.6-mile road reconstruction, drainage improvements, and water main. Project utilized MDOT STP funds (2002).
- *Tickner Street Reconstruction*: Project manager for 0.82 mile of street reconstruction, including water main, storm sewer, curb & gutter, asphalt pavement and sidewalks (2002).
- *East Street Storm Sewer*: Project manager for replacement of 1,140 feet of undersized storm sewer to provide relief to a flood-prone area (2002).
- *Water System Master Plan*: Project manager for master plan and subsequent Drinking Water Revolving Fund project (1999-2002).

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- *South Bridge Street Sidewalk*: Project manager for placement of sidewalk on both sides of South Bridge Street, from Hickory Street south to the city limits (2001).
- *Ripley Road Sanitary Sewer*: Project manager for design and construction of sanitary sewer to service 19 homes, including a pump station (2001).
- *East & West Broad Streets Reconstruction*: Project engineer for design and construction engineering for street reconstruction, from city limit to city limit. Project included curb and gutter, storm sewer, water main and sidewalks (West Broad awarded *2002 Public Works Project of Year*, American Public Works Association; East Broad awarded *2001 Public Works Project of Year*, American Public Works Association).
- *Hickory Street Reconstruction (1997 Urban Street Project Award of Merit, Michigan Asphalt Paving Association/Michigan Dept. of Transportation)*: Project manager for reconstruction of 0.44 mile of bituminous pavement, curb and gutter, storm sewer, sidewalks, and water main. Project utilized MDOT STP funds (1997).
- *Meadow Green Lane Reconstruction*: Project manager for street paving, including bituminous pavement, curb and gutter, water main, and storm sewer (1996).
- *Hyatt Lane/Broad Street Intersection Improvements*: Project manager for lane widening, curb and gutter, storm sewer, and signalization utilizing MDOT H.E.S. funds (1996).

### **City of Port Huron, MI**

- *Vanness Area Combined Sewer Separation*: Project engineer for design and construction engineering for 2.3 miles of road reconstruction, including 12,200 linear feet of water main, 10,800 linear feet of sanitary sewer and 6,700 linear feet of storm sewer (design, 2006, construction, 2007-08.)
- *16<sup>th</sup> Avenue Phase III Sewer Separation*: QA/QC for design and construction of 1.5 miles of road reconstruction, including 11,000 linear feet of

sewer and 6,000 linear feet of water main (\$5.4M construction; 2005-06).

- *16<sup>th</sup> Avenue Phase II Combined Sewer Separation*: QA/QC for design and construction of 2.8 miles of road reconstruction, including 14,500 linear feet of water main, 15,400 linear feet of sanitary sewer, and 3,920 linear feet of storm sewer (\$7.3M construction; 2004 design, 2006 construction).
- *11<sup>th</sup> Avenue Combined Sewer Separation*: QA/QC for design and construction engineering for reconstruction of various streets and 20,000-linear-foot sanitary sewer, 12,000-linear foot water main, 7,000-linear-foot storm sewer, and two outfalls into the Black River (\$7.5M construction; 2001-03).
- *7<sup>th</sup> and 9<sup>th</sup> Streets Sewer Separation*: QA/QC for the design and construction engineering for 3.5 miles of road reconstruction, including 15,000-linear-foot water main, 12,500-linear-foot sanitary sewer, and 7,800-linear-foot storm sewer (\$6.9M construction; 2001).

### **Pittsfield Township, MI**

- *Platt Road Green Way*: Project engineer for assistance to the Green Way Committee's first trail project. Evaluated a 6-mile route for feasibility and routing options. Route includes at-grade signalized crossings at MDOT highways and pedestrian overpass, as well as connections to residential neighborhoods, parks, and county facilities. Explored use of new design materials, such as permeable pavement (2004).

### **City of Davison, MI**

- *Flint Street Reconstruction*: Design engineering for rehabilitation and resurfacing of 1.1 miles of street, utilizing federal STP funds (1995).
- *Genesee Street Storm Sewer*: Design engineer for construction of relief storm sewer on Genesee Street to alleviate flooding in downtown area (1994).

### **City of Clio, MI**

- *Mill Street Reconstruction*: Project manager for street reconstruction, including concrete

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pavement, storm sewer, water main, and sidewalks (1995).

### **City of Flushing, MI**

- *Flushing Road Resurfacing*: Field engineer for project utilizing MDOT STP funds, including cold milling bituminous pavement, miscellaneous curb and gutter repairs, and bituminous pavement resurfacing (1991).

### **Downtown Development Authority, Flint, MI**

- *AutoWorld Demolition*: Project engineer for two-phase project involving demolition of theme park and museum complex into greenfield site. Demolishment included 80,000-square-foot AutoWorld dome, 40,000-square-foot IMA building, 47,000-square-foot annex, four connector buildings totaling 26,000 square feet, and related parking areas (1997).

### **Local Development Finance Authority/City of Fenton, MI**

- *Silver Lake Road Widening*: Project manager for design and construction of lane widening, bituminous pavement, sidewalk, and 10- x 6-foot box culvert (1997).
- *Shiawassee/Rounds Intersection*: Project manager for design of intersection improvements for signal light placement. Project included lane widening and larger turning radii (2004).
- *Industrial Way Drive & Copper Avenue Reconstruction*: Project manager for design and construction of pavement resurfacing (1998).
- Project manager for reconstruction of various streets within industrial park including the extension of Grant Street to Fenway Drive (2000-01).

### **Oakland County Drain Commissioner, Holly, MI**

- *Patterson-Holly Drain*: Project manager for analysis and design of improvements to Oakland County drain (2005).

### **Village of Holly, MI**

- *Morrison Road Reconstruction*: Project manager for 0.28 mi of road reconstruction with hot mix

asphalt paving, curb and gutter, and sidewalk on Morrison Road from Deer Valley Road to CN Railroad tracks (2007).

- *Oakland Street Reconstruction* (Awarded 2006 Award of Excellence, Asphalt Pavement Association of Michigan): Project manager for design and construction of 0.34 mile of road reconstruction, including curb and gutter, sidewalk, storm sewer, drive approaches, asphalt pavement, and coordination with CN Railroad for a new crossing (2006).
- *Water System Improvements* (Named 2008 Project of the Year, Environmental Category, \$2-\$10M, American Public Works Association-Michigan): Project manager for planning, design, and construction of improvements to water system, including new well, 500,000-gallon water tower, water treatment plant expansion, and numerous water main replacements (2006).
- *Sunset Drive Pump Station*: Project manager for replacement of existing pump station with new wet well, valve vault, and controls (2004).
- *Elm Street*: Project manager for design and construction engineering for 0.75 mile of street reconstruction, including drainage improvements and water main. Project utilized MDOT STP funds (2003).
- *Grange Hall Road Resurfacing/Widening*: Project manager for design of Grange Hall Road resurfacing and widening, including a railroad diagnostic for a new CSX Railroad concrete crossing and signals (2003).
- *Hydraulic Modeling*: Project manager for update to hydraulic model first developed in the mid 1990s. Determined design requirements for two water booster stations, and identified several alternatives for system improvements (1999-present).
- *Various Paving/Water Main Projects*: Project manager for design and construction of Corbin Street resurfacing, Cogshall Street water main, reconstruction of three parking lots, and Sherman Street water main and street improvements (2001).



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- *Maple Street Reconstruction:* Project manager for reconstruction of Maple Street (from Broad Street to East Street), including new curb and gutter, bituminous roadway, sidewalk, water main, storm and sanitary sewer, as well as coordination with CSX Railroad for crossing improvements (1999-2000).
  - *Saginaw Street Reconstruction:* Project manager for design and construction of cold milling of existing pavement, bituminous resurfacing, water main, and sidewalk improvements (1999).
  - *Grant Street Closure:* Project manager for design and construction of the closure of Grant Street at the Sherman Street CSX Railroad grade crossing (1999).
  - *Rose Street Sanitary Sewer:* Project manager for design and construction of sanitary sewer extension (1997).
  - *Center Street Reconstruction:* Project manager for cold milling of existing pavement, bituminous resurfacing, and sidewalk ramp improvements (1996).
  - *East Road Reconstruction:* Project manager for the design and construction of paving an existing gravel road (from Maple St. to Elms St.) including new curb and gutter, storm sewer, water main, sanitary sewer and bituminous pavement. (2008)
- Village of Holly DDA, Holly, MI**
- *Saginaw Street Streetscape Improvements:* Project manager for addition of streetscape elements on Saginaw Street including: replacement of ornamental light fixtures; installation of stamped colored concrete crosswalks and colored exposed aggregate sidewalk at corners with ADA pedestrian ramps; relocation of existing ornamental clock at Maple Street; replacement of trees and some site furnishings, and coordination with CN Railroad for a new timber crossing. Completed MDOT enhancement grant (2007).
- Charter Township of Oxford, MI**
- *Sanitary Sewer Master Plan:* Project manager sanitary sewer master plan addressing concerns about existing system's capacity to meet future needs. Information was collected and analyzed included: present and future population; existing meter data; and known future developments (1999-2004).
  - *Hydraulic Modeling:* Project manager for development of hydraulic model in 1998; township continues to use it to evaluate proposed development's impact on township's water system. Model is updated as developments are constructed (1998-2004).
  - *Water System Master Plan:* Project manager for preparation of water master plan in 1998, and its continual review to ensure accuracy (1998-2005).
  - *Plan Review Services:* Ongoing plan review services for platted subdivisions, condominium developments, lot splits, private roads, and individual site plans (commercial, industrial, office, manufacturing, etc.) for conformance with township ordinances. Developments connecting to township water or sanitary sewer system must submit construction drawings for review and approval, in accordance with "Township Design Standards and Construction Specifications Manual," and the requirements of the Oakland County Drain Commissioner (ongoing).
  - *Lakevilla Road Sewer Extension:* Project manager for design and construction of sanitary sewer extension, from North Oxford Road to Lakevilla Mobile Home Park. Project included gravity sewer, lift station and force main (2001).
  - *Design Standards and Construction Specification Manual:* Drafted manual detailing minimum requirements for design and construction of the following (worked with Oakland County Road Commission, Oakland County Drain Commissioner, Michigan Department of Transportation, and Michigan Department of Environmental Quality to incorporate existing standards or draft a more stringent set of standards).
    - » Streets and roadways;
    - » Driveways and approaches;
    - » Parking lots;
    - » Street lighting;

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- » Water main, sanitary and storm sewer, and submersible sewage pump stations;
- » Soil erosion and sedimentation control,
- » Tree planting for street and buffer landscape areas;
- » Traffic control and safety standards;
- » Insurance and bond requirements;
- » Well abandonment and site grading.
- *Water Distribution Improvements:* Project manager for design and construction of 16-inch water main, including booster station. Water main supplies water for 2,150-unit residential/commercial development and Oxford Area Middle School (1998).
- *Pocahontas Area Water Main:* Project manager for design and construction of eight- and 12-inch water main and service-lead connections to residences. Project received Michigan Department of Environmental Quality funding, due to groundwater contamination (1997).
- *Water System Improvements:* Design and construction engineering for 16-inch water main connecting the Red Barn Water Tower to existing well fields at Mickelson Shores, Oxford Oaks, and Oxford Woods subdivisions. The project also included a 400-gpm water booster station with a 1,250-fire pump and water main, to supply water to Oxford Middle School (1997).

### **Charter Township of Oxford Parks & Recreation Department, Oxford, MI**

§ *Oakwood Lake Township Park:* The P&R department acquired a 300-acre parcel of land through an MDNR grant. Project manager for field verification of topography presented 10 years previously, as well as design and preparation of construction drawings for two entrances, four parking areas, and a series of trails through wooded wetlands. The property included wetlands, creeks and ponds. The client desired to develop a natural park to encourage hiking, fishing, hunting, and observing nature. Design of entrances required they be natural and non-invasive. Other project challenges included several crossings of a very large wetland and acquisition of two approach permits from the

Road Commission for Oakland County. The property borders the north side of Oakwood Road, which floods regularly due to naturally occurring artesian springs. Provided the client low-impact design solutions and reduced design budget by 40% (2004).

### **Grand Blanc Township, Grand Blanc, MI**

- *Abbey Park Senior Citizens Complex:* Design engineer for sanitary sewer extension (1997).
- *Fire station No. 3:* Project Manager for the site design of a new fire station (1996).
- *Water Main and Sanitary Sewer CIP Projects:* Responsible for the QA/QC of multiple miles of sanitary sewer and water mains to service multiple sections of the township (2009).

### **Charter Township of Fenton, MI**

- *Byram Lake Drive Paving:* Project manager for the design and construction of the paving of Byram Lake Drive in Fenton Township and City of Linden. The project was financed through a special assessment with the abutting property owners (2002).
- *Sanitary Sewer Study:* Project manager for evaluation of existing sanitary sewer system throughout the township and identified possible sewer route to service proposed Thompson Road corridor (2002).
- *Owen Road Sanitary Forcemain:* This project used directional boring methods, utilizing high-density polyethylene six-inch pipe. Method was chosen due to its ability to construct the 1,000 feet of force main without driveway removals or replacements, and the adaptability of the HDPE material with ductile iron form, which made a connection into the existing force main and pump station (1997).

### **Genesee County Road Commission, various locations, MI**

- *Lobdell Road Reconstruction (Fenton/Argentine Townships, MI):* Project manager for design of 2 miles of paving and ditching of a gravel road (2001).
- *Harvard Street Reconstruction (Mt. Morris, MI):* Project manager for design of bituminous

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pavement, ditching, and storm sewer improvements (1999).

- *Linden Road/Reid Road Intersection Improvements (Grand Blanc, MI)*: Project manager for construction of lane widening, 1,465 mm x 2,305 mm elliptical storm sewer, curb and gutter, and guard rail (1997).
- *Various Culvert Replacements*: Project manager for design of various box-culvert replacement projects (1997).
- *Holly Road Reconstruction, Phase II (Grand Blanc)*: Project awarded 2004 Award of Merit, Urban Street Projects (Michigan Asphalt Paving Assoc. & Mich. Dept. of Transportation). Project manager for design of passing and through lanes (1997).

**Genesee County Drain Commissioner**, various locations, MI

- *Millpond Dam/Perry Road Improvements (Atlas, MI)*: Project manager for design and construction of spillway improvements and embankment armor, with related reconstruction of Perry Road. Road improvements included pavement widening, existing pavement milling and resurfacing, and new concrete curb and guardrail replacement. An Emergency Action Plan, Operation and Maintenance Plan and permit application were prepared for submittal to the Michigan Department of Environmental Quality (2000).
- *Spring Meadows Branch, Shiawassee River (Linden, MI)*: Layout and designation of new drainage district, preliminary engineering study, right-of-way documents, and construction staking.
- *Hannan Drain Extension (Mt. Morris, MI)*: Project manager for design of extension, including 1,917-linear-foot, 24- and 30-inch storm sewer (1998).
- *Chamberlain Drain (Davison, MI)*: Project manager for design of drain, including 17,000-linear-foot open drain and various road crossings (1998).
- *Nagengast Drain (Davison, MI)*: Project manager for drain design, including 1,350-linear-foot storm sewer (2000).

**Lapeer County Drain Commissioner**, Lapeer, MI

- *Potters Lake Sanitary Sewer*: Project manager for design and construction of sanitary sewer collection system, including two lift stations and roadway construction (1998).

**City of Lapeer**, Lapeer, MI

- *M-24 Corridor Utilities*: Responsible for the QA/QC of multiple miles of sanitary sewer and water mains which will service the I-69 and M-24 interchange area (2009).

**Michigan Department of Transportation**, Flint, MI

- *M-21 Reconstruction (Flint)*: Project engineer for construction of Court Street, from Corunna Road to Miller Road. Project included lane widening, curb and gutter, sidewalk, storm sewer, traffic signals, cold-milling, and bituminous resurfacing (1999).

**THA Architects Engineers (Durand Community Schools)**, Durand, MI

- *High School and Middle School Improvements*: Project manager for site design of high school and middle school improvements, including storm water management and parking facilities (2008).

**THA Architects Engineers (Lapeer County Intermediate School District)**, Lapeer, MI

- *Lapeer ISD*: Project manager for site design of school expansion project (2008).

**THA Architects Engineers (Beecher Community Schools)**, Flint, MI

- *Tucker Elementary School*: Project manager for site design of parking lot reconstruction (2008).

**THA Architects Engineers (City of Burton)**, Burton, MI

- *Burton Fire Station*: Project manager for site design of a new fire station (2008).

**THA Architects Engineers (SAE Fraternity)**, Flint, MI

- *Sigma Alpha Epsilon Fraternity House*: Project manager for site design of a new fraternity house at Kettering University (2009).

**THA Architects Engineers (Lake Fenton**



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## **Community Schools), Fenton, MI**

- *New High School:* Project manager for site design of new high school, including an on-site water system, sanitary sewer, storm water management, and parking facilities (2004).

## **Fenton Area Public Schools, Fenton, MI**

- *Bus Maintenance Facility:* Project manager for design and construction of building and parking lot expansion (1999).
- *North Road Elementary:* Project manager for design and construction of bituminous parking lot and separate bus loop (1998).
- *State Road Elementary:* Project manager for design and construction of bituminous parking lot and separate bus loop. Project also included improvements to State Road (for City of Fenton), including resurfacing and turn lanes (1995).

## **Frankenmuth Schools, Frankenmuth, MI**

- *School Improvements:* Project manager for design of school improvements, including new transportation center, and elementary, middle, and high school site improvements (2001).

## **Hartland Community Schools (Kingscott Associates, Inc.), Hartland, MI**

- *New High and Elementary Schools:* Project manager for design of new schools on 190-acre campus. Included creek analysis, bridge crossing, wetland permitting, water system, sanitary sewer treatment and drainage facilities (2003).

## **Flint Memorial Park Cemetery, Mt. Morris, MI**

- Project manager for expansion of cemetery, including roadways and drainage (2002).

## **Green Oak Charter Township, MI**

- *Sanitary Sewer System (Awarded 2005 Public Works Project of Year, Environmental Category, \$2-\$10M Category, American Public Works Association):* Responsible for design engineering of sanitary sewer system. Project included four large pump stations, several thousand feet of gravity and low pressure sewer and force mains (\$6M construction; 2005).

- *Water Master Plan:* Assisted in development of a water distribution system master plan for newly created water district. The plan analyzed preliminary usage, as well as possible extensions and water system looping scenarios. Also identified possible phasing options, as well as associated cost estimates for each phase (2001).
- *Sanitary Sewer Study:* Feasibility study for possible sanitary sewer system for general and light industrial zones, as well as commercial and residential zoning. Project also included development of four possible sewer districts, and identified the needs of each district (1999).
- *Plan Review Services:* Plan review services for all platted subdivisions, condominium developments, lot splits, private roads, and individual site plans (commercial, industrial, office, manufacturing, etc.), for conformance with appropriate township ordinances. Plans are reviewed at each stage specified during the township plan review process. Review construction plans for private roads, storm sewer, sanitary sewer, and water main for conformance with Green Oak Township ordinance requirements, as well as compliance with Livingston County Drain Commissioner requirements for storm water systems.
- *Silver Lake Sanitary Sewer Study:* Project manager for preparation of feasibility study report. Included evaluation of several different sewage collection systems and routes to serve approximately 170 lake parcels. Presented alternatives for gravity collection and grinder pump/low-pressure sewer systems. Report also included projected wastewater flows and cost estimates for each alternative sewage collection system (2004).
- *Hidden Lake Wastewater Treatment Plant Expansion:* Project manager for construction plant expansion. Added third infiltration basin, new headworks system, two sequencing batch reactor tanks, digester tank, and building addition, complete with additional blowers for air supply and controls (2004).

## **Pilibosian and Limpuma Development, Grand Blanc Township, MI**

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- *The Pines Site Condominium*: Project manager for preliminary planning, site plan approval, and design engineering for 160-unit site condominium. Included preparation of Exhibit “B” condominium documents and design of roadways, public water, sanitary sewer, and storm water management (1999).

### **Phoenix Land Developments, Atlas, MI**

- *Site Condominium*: Project manager for preliminary planning and site plan approval for 48-unit site condominium. Also included preparation of Exhibit “B” documents (1998).

### **Central Michigan University, Mt. Pleasant, MI**

- *Robinson Hall*: Project manager for the rerouting of roof drains at Robinson Hall (2008).
- *Varsity Softball Field*: Project Manager for the replacement of the backstop and providing new bleachers (2008).
- *Field Hockey Field*: Project Manager for the addition of bleachers and seating area including sidewalks and grading (2008).
- *Parking Lot No. 33*: Project Manager for the evaluation of public busing drop-off options (2008).

### **City of Ithaca, MI**

- *St. John St. Sanitary Sewer*: Project manager for sanitary sewer extension project including a duplex grinder station (2008).
- *Phase A, B & C Water Main*: Project Manager for the design of replacement water mains throughout the city (2007-2008).

### **South Carolina**

- *Multiple Residential Developments*: Responsible for the QA/QC of the site design and construction plans for numerous residential developments (2007-2009).