

Kreg E. Maheu, P.E., President

Project Role: Principal-in-Charge

OVERVIEW:

Mr. Maheu is DMK's President of Engineering with over 39 years of experience as a civil engineer covering multiple disciplines. His experience includes both public and private practice.

Mr. Maheu has been involved in all aspects of civil engineering including land development, stormwater systems, transportation, water distribution and transmission systems, wastewater collection and transmission systems, and planning projects as designer, project engineer and project manager. He has extensive experience with local, state and federal permitting applications processes. His experience also includes QA/QC, construction engineering & inspection and contract administration.



EDUCATION:

Bachelor of Science,
Civil Engineering
University of Maine,
1983

REGISTRATIONS:

Professional Engineer,
Florida No. 45766

TECHNICAL TRAINING:

Florida Advanced
MOT Training

PROFESSIONAL EXPERIENCE:

DMK Associates, Inc.
1984-Current

EXPERIENCE HIGHLIGHTS:

Punta Gorda Middle School/Charlotte High School Campus

Reconstruction

Mr. Maheu was project manager and lead engineer for the Punta Gorda Middle School and Charlotte High School Reconstruction after Hurricane Charley destroyed the schools in August 2004. The initial task involved the relocation of 2200 students to portable classrooms including providing potable water and sanitary sewers to the new temporary modular campus. Mr. Maheu lead the overall site and civil design for the 90-acre campus including classroom building for the middle school and high school, athletic fields, field house and the football field, a grading and drainage design and modeling of existing and proposed conditions for the entire site as well as access roads, sidewalks and parking. Utility work included preparation of utility plans showing existing and proposed sewer and water lines, including fire protection, gravity sewers, force mains, lift stations and connection to the City of Punta Gorda water and sewer systems. Permitting included an ERP to SWFWMD, water and sewer line extension permit applications to FDEP, and an application for service to the City of Punta Gorda Utilities Department for water and wastewater improvements. Bid Phase services, MOT and Construction Administration were also performed on the project.

Sarasota High School

DMK provided civil engineering services for the Sarasota High School Renovations which began in 2012. This work was performed as subconsultant to Harvard Jolly Architects who were chosen by the Sarasota County School Board to lead the project. The work included site design for several areas throughout the campus including the existing Paul Rudolph classroom building and gym and the existing administrative building. A new gym was constructed at the northern end of the existing courtyard and the courtyard was reconfigured as a campus focal point. A new parent/pickup driveway loop and new bus loop were also be designed. At the northern end of the property a new CEP plant was constructed and house the new HVAC equipment. DMK was tasked with providing site design, grading and stormwater drainage, floodplain compensation study and design, utility design, SWFWMD permitting and City of Sarasota permitting throughout the project. The project schedule was previously approved by the School Board. To maintain the project schedule and meet pre-determined deadlines for milestone submittals during the planning and design phases, DMK adjusted the allocation of resources needed to complete task. During Design and Construction, DMK staff regularly attended Owner/Architect/Contractor (OAC) meetings to keep abreast of the project timeline and deliverable requirements. All civil design, permitting and site improvements were completed within the approved schedule and budget.

Bayfront Park, Longboat Key

DMK teamed with Wannemacher & Jenson Architects for the redevelopment and expansion of Bayfront Park in the Town of Longboat Key. DMK's responsibilities involved assistance with master planning and complete civil, site, survey and permitting requirements for the project. The existing

park area was expanded from approximately 4 acres of improvements to over 8 acres including a beachside access. The existing park consisted of a recreation center, tennis courts, shuffleboard court, basketball court and dock. The improvements included relocation of the basketball court, resurfacing of the tennis courts, picnic shelters, pavilions, kayak launch, Kayak storage, fishing piers, boardwalks, observation decks, dog park, open space, playground, landscaping and additional parking. The project also included a restricted access driveway to the Gulf beach from State Road 789, Gulf of Mexico Drive, Observation Deck, and pedestrian beach access. The beach improvements required coastal construction control line permitting through FDEP's Division of Water Resource Management. An Environmental Resource Permit (ERP) was obtained for the bayside shoreline improvements. Mr. Maheu was responsible for the project management of the civil, site, survey and permitting as well as Project Engineer and Engineer of Record.

Maxine Barritt Park

DMK performed civil engineering design, as well as complete permitting services for this City of Venice Park, located on a decommissioned wastewater treatment plant site adjacent to the Venice Airport and the Venice Pier. This design/build project included parking access drives, restrooms, pavilion and shelter locations, playground area, plaza area, boardwalks, multipurpose trails, and beach/dune lookouts. DMK was responsible for all aspects of civil engineering including grass parking. An ERP permit was applied for and obtained from the Tampa office of FDEP. The Tallahassee office of Beaches and Shores Department issued a CCCL permit, while the sewer and water service permits were obtained from FDEP. Mr. Maheu was Project Manager and Project Engineer for the civil engineering, site design and permitting.

Turtle Beach

Sarasota County determined the two existing boat launch areas at Turtle Beach on Siesta Key needed improvements to allow ADA access to the docks and to facilitate a more efficient launch. In addition, they wanted to add a fishing pier to the Turtle Beach amenities between the two covered pavilions on the east side of the canal. DMK was contracted to design the improvements with Mr. Maheu as Engineer of Record. The scope included data collection, survey, preliminary SITE planning and permitting through FDEP and USACE to construct the docks and fishing pier. Coordination was required to assure consistency with the Coastal Construction Control Line requirements as well as obtaining authorization from the FDEP Bureau of Beaches and Coastal Systems to conduct the proposed activities.

Boca Grande Fire Station

DMK was retained by the Boca Grande Fire District to provide surveying, site planning, stormwater design, utility design, permitting services, historic board applications, variance applications and final inspections for the construction of a new fire station facility in Boca Grande, FL. Due to the space limitations of the site a Low Impact Design feature involving an underground exfiltration stormwater management system was implemented under the pavement area. The project is located in a FEMA flood zone which normally requires occupied areas to be raised above the designated flood level. Due to the need to have the fire station at grade for housing of fire trucks and equipment, special flood proofing techniques were designed and employed. All openings below the flood zone elevation were designed to be capable of being sealed during a flood event. As part of this project DMK was retained to provide site planning and permitting services for the construction of a temporary location for the Boca Grande Fire Control District. Services included a landscaping plan, relocations plan for an historic building located on the site and a demolition plan to remove old structures on the property.

Port Charlotte Fire Station #4 - Fire Line

DMK provided route survey, fire line design and permitting, certificate of completion, and construction drawings for a fire line to serve Fire Station #4 on CR 771 in Charlotte County an Englewood Fire District Training Facility. This project involved developing a 3.83 ± acres on a 10-acre site owned by the Englewood Water District. The improvements included a 2,500 SF classroom, fire training tower, confined space/jaws of life/burn pit training areas, access road, and wet detention stormwater facility necessary for the proposed improvements. The project was permitted through the Southwest Florida Water Management District Florida Department of Environmental Protection, Charlotte County Land Development Services.

Deep Creek Fire/EMS Maintenance Facility

DMK provided site design and permitting services for a new 2.5-acre maintenance facility in Deep Creek, Charlotte County. This Guaranteed Maximum Price (GMP) project involved direct coordination and collaboration with the selected general contractor throughout the design process. The project included parking, vehicle wash facility, and fire engine pump test pits as well as stormwater management facilities, onsite sewage treatment and disposal system and water main extension for potable water and fire protection. Special care was required to avoid Scrub Jay habitat located on the parcel and in the vicinity.

Garden Elementary Entrance Realignment, Venice, FL

Design, permitting and construction supervision for the relocation of the existing driveway which had no left turn lane for access to Center Road and created major inconveniences to parents dropping off or picking up their children. The new design aligned the driveway to exit into Center Road at Horse and Chaise Boulevard, an intersection that was signalized in 1997. The increased driveway length combined with an adequate left turn from Center Road improved the in & out traffic.

Lemon Bay High School Campus Reconstruction

DMK provided design, permitting and construction administration for the new Lemon Bay High School campus including athletic fields, and football field on the existing 45-acre campus. DMK has been providing engineering and surveying for the Lemon Bay High School campus for over 20 years. In 2007, DMK prepared a Conceptual Master Plan for grading, drainage and utilities in advance of the proposed reconstruction of the campus, which was originally constructed in the 1960s. DMK gained Southwest Florida Water Management District stormwater design approval for the Conceptual Master Plan in 2007. Since 2010, DMK has provided Charlotte County Public Schools with phased construction drawings which will allow the existing school to function and operate during the reconstruction efforts. DMK has provided design, permitting and construction phase services for the multi-phase project through completion of the final build out of the 3-story classroom wing, cafeteria, gymnasium, music suite and auditorium, administration buildings, medical center, energy plant, bus loop and parking areas which were completed in 2016. DMK worked closely with Charlotte County Public School staff, project architect and the Construction Manager to develop reasonable timelines for civil design and permitting. DMK attended progress meeting and Owner/Architect/Contractor (OAC) meeting on a regular basis to keep abreast of the project timeline and deliverable requirements and adjusted project resources to maintain project schedules and deliverable deadlines. All civil design, permitting and site improvements were completed within the approved schedule and budget. DMK most recently provided civil and site planning services for Phase 7 involving the athletic field reconstruction.

PRMRWSA Loop Phase 1A Interconnect

DMK performed design services for 12 miles of 24" pipeline, a Regionally Integrated Loop System connecting the water supply systems of the PRMRWSA, Charlotte County and the City of Punta Gorda capable of providing between 4-10 MGD of bulk water in both directions. The project included a 7,400 feet "Open Cut" crossing of Peace River, just north of the I-75 Bridge. Mr. Maheu served as project manager.

Coon Key Murt & Water Main Replacement

DMK designed and permitted the 10' Multi-Use Recreational Trail located on Coon Key between the Coon Key bridge and Washington Drive for the City of Sarasota. The scope of services included the preparation of detailed construction drawings and all documentation needed to support the design and bid the project including replacement of an existing 16" AC water main. In addition, DMK performed all the necessary survey work. Since the project was located in FDOT right-of-way it was constructed through a local agency agreement with the FDOT and was designed to FDOT standards. The project design is currently receiving final approval from DOT and will be advertised for construction soon. Mr. Maheu is the project manager.

West Dearborn Street Utility Relocates, Englewood

DMK provided services which included preparation of construction plans, permitting and bid phase services to relocate or adjust the water mains, sewer force mains, water service lines, and vacuum sewer system as required to avoid conflicts with the low impact development drainage system being designed for the West Dearborn Project. The project included relocating or adjusting the Englewood Water District's (EWD) system of water and sewer lines along the approximately 3 miles of roadways that are part of this project. DMK determined the appropriate adjustments to minimize and solve the conflicts between the LID improvements and EWD lines. Mr. Maheu was the project manager.

Lakewood Ranch Reclaimed Water Eastern Expansion

DMK Associates, Inc. was retained by Aqua Utilities Florida to provide design, permitting, bidding and Construction Engineering & Inspection (CE&I) services for a 15,000 LF of 20" and 11,000 LF of 12" reclaimed water line project in east Lakewood Ranch. The project included an existing pump station upgrade with new high service vertical turbine pumps and reclaimed water. Mr. Maheu was project engineer for this project.

Charlotte County Utilities Wastewater Expansion Program Phases 1A and 1B Force Main and Reclaimed Water Systems

Mr. Maheu was project engineer responsible for the design of the backbone force main and reclaimed water systems throughout Port Charlotte including the initial alternative route analyses. The project also involved the design and permitting of force mains to transmit wastewater from neighborhoods and developments along Harborview Road to the Eastport WWTF. A reclaimed water main system was designed and permitted under Mr. Maheu's direction distributing

treated effluent from the Eastport WWTF to area golf courses including Port Charlotte Golf Club, Deep Creek Golf Club, Kingsway Country Club and Maple Leaf Golf & Country Club. Mr. Maheu was also responsible for siting of master pump station locations throughout Charlotte County as part of the County's wastewater expansion program.

Charlotte County Utilities – Waterline Extensions

Mr. Maheu served as project engineer for the design of 9 miles of water mains for various water system interconnects in Central Charlotte County. The water main extensions included a variety of pipe sizes from 6' – 16" diameters. The project included several aerial canal crossings.

Ingraham 24" Water Main, Charlotte County

This project on behalf of Charlotte County Utilities involves the design, permitting and construction of a 24" transmission water main from the intersection of SR771 at Ingraham Boulevard to the Rotonda Circle water tank, a distance of approximately 3.5 miles. The project included alternate rout analysis and a basis of design report. Multiple HDD roadway crossings were included in the design as well as subaqueous HDD under the Rotonda River. The project is currently under construction. Mr. Maheu is the project manager and Engineer of Record.

Reclaimed Water Main at Payne Park

Mr. Maheu was the project manager for this project for the City of Sarasota which included the monitoring of high-density polyethylene pipe fusion. Monitoring and inspecting the installation of appurtenances. Inspection of the horizontal boring drilling. Hydrostatic test pressure monitoring.

Siesta Key Water Meter Replacement

As consultant to Sarasota County, DMK provided CEI services related to six large water meter replacements for Jamaica Royale, Harbor Towers, Casa Blanca, Siesta Dunes, Bay Oaks and Sea Shell Condo. DMK provided field engineering inspection, shop drawing review, progress meetings and certification of quantities. Mr. Maheu was project manager and contract administrator for this project.

Landings 1 & I1, Riverview, Goldenrod, Beneva/Webber Lift Station Rehabs

CEI services for the construction of the lift station rehabilitation including above and below ground piping, protective liners or coatings, pumps, manholes, electrical controls and bypass pumping. Mr. Maheu served as project manager, contract administrator, and Engineer of Record for this project.

UTILITY PROJECTS:

- CCU Wastewater Expansion Program - Phase IA & IB Force Main and Reclaimed Water Systems
- Rotonda Heights low pressure force main & lift station /construction management
- Rotonda Villas 28 miles of low pressure forcemain and lift stations/construction management
- Englewood Water District – Lemon Bay Haven Sewer Extension
- Englewood Water District – Seastone Drive Sewer Extension
- Englewood Water District Area 17 low pressure Sewer Preliminary Master Plan
- Englewood Water District Area 17 Gravity Alternative Preliminary Master Plan
- Englewood Water District Lake Drive Low Pressure Wastewater Collection System
- Englewood Water District Dearborn Street Sewer Relocation CEI
- Clark Road Sewer Relocation
- Breakwater Lateral Sewer Relocation
- Fruitville Wastewater Treatment Plant Expansion
- Lakewood Ranch 12" and 18" Reclaimed Water Main