



INTELLIGENT DESIGN &
CONSTRUCTION
SOLUTIONS, LLC

Michael Dicientio
Senior CADD Technician

Education

Wright College,
Chicago, Illinois

Professional Societies

CEE

Software Knowledge

Microstation V8
AutoCAD 2011 MEP
Microsoft Office

Mr. Dicientio is the senior computer aided design and drafting (CADD) technician; he is responsible for new project drawing setup as well as all layering standards and level standards that Intelligent Design and Construction Solutions, LLC uses. Mike is also responsible for adjusting our standards to fit the client's requirements. In addition, Mr. Dicientio is responsible for drawing layout and file management of each project's drawing set.

Upper Des Plaines Pump Station – Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) River Forest, Illinois

Mr. Dicientio was responsible for the AutoCAD portion of the electrical design for the rehabilitation of a major pump station serving the Upper Des Plaines River Service Area. In addition, he was responsible for installation; including a control bypass to the TARP System. Drawing set included coordination with MWH for all other disciplines, interior and exterior power distribution and lighting.

(Client: MWH Americas, INC)

Distributed Control System at Stickney Water Reclamation Plant, Construction Engineering Services – Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), Stickney, Illinois

Mr. Dicientio is responsible for all AutoCAD requirements as requested by MWH. The drafting has a quick turn-around time and every deadline, no matter how demanding, has been met. Mr. Dicientio provides construction services including construction observation, start-up services and CAD drafting for this complete control replacement at the world's largest water reclamation plant. IDCS, LLC is a subcontractor providing electrical, instrumentation and CAD services during construction.

(Client: MWH Americas, INC)

Contract 1 – Fox Metro Water Reclamation District (FMWRD) Oswego, Illinois

Michael Dicientio is Senior CAD Technician in support of the electrical and control design for the addition of an emergency pump station for FMWRD. The drawings consisted of single line diagrams for two motor control centers (MCC) and the medium voltage service entrance, MCC elevations and low voltage switchboard elevations, interior lighting and power distribution, exterior conduit routing and exterior lighting. The drawings were completed as .DWG files and sent to client as plottable .PDF files.

(Client: Walter E. Deuchler & Associates)

New Preliminary Treatment Facilities at Calumet and Stickney WRP – Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) Calumet and Stickney, Illinois

Mr. Dicientio assisted in the completion of the exterior power and communications routing for the primary tank expansion at the Calumet Waste Water Treatment Facility. The drawings were required to follow the strict standards as set by MWRDGC and implemented into the set of drawings being produced by the JV team of M&E/CDM.



**Indiana Harbor Control – United States Army Corps of Engineers
East Chicago, Illinois**

Mr. Dicientio was in charge of CADD for the design of a new wastewater treatment facility to treat contaminated ground water, as well as the design of new administration and maintenance buildings. Mr. Dicientio was responsible for all MicroStation drafting on the electrical and instrumentation design for this project. This included single line diagrams, motor control center elevations, routing of power (both interior and exterior), as well as a complete supervisory control and data acquisition (SCADA) system layout. The coordination of all background drawings was critical as there were many design changes which necessitated changes to the background of each drawing. (Client: MWH Americas, INC)

**Illinois Avenue Pump Station – Fox Metro Water Reclamation District
(FMWRD)
Oswego, Illinois**

This new influent pump station consists of: three 25 HP soft start pumps with one future pump, a dry well unclassified area which contained the motor control center (MCC), remote telemetry units (RTU), generator and chemical storage tank, and a wet well Class 1 Div 1 area which consisted of two separate wet wells and redundant pressure transducers per wet well for level control. An RTU/PLC provides for automatic controls. A natural gas generator is provided for complete power back-up. Mr. Dicientio was responsible for the AutoCAD drafting and coordination with WEDA for all background drawings. The drawings for this project consisted of upper and lower levels for both the dry and wet well areas, split into power/control and lighting. (Client: Walter E. Deuchler & Associates)

**Temperature Phased Anaerobic Digester Design Services – Fox Metro Water
Reclamation District (FMWRD)
Oswego, Illinois**

Mr. Dicientio was the Senior AutoCAD Technician on this project, which consisted of the design of power distribution and control system for a new thermophilic digester complex at the Fox Metro Wastewater Treatment Facility. The system includes two batch operated thermophilic digesters, two mesophilic digesters and digested sludge storage. Gas and sludge handling was housed in a 15,000 square feet processing building, including Class 1 Div 1, Class 1 Div 2 and non-classified areas. The control system was integrated into a plant-wide supervisory control and data acquisition (SCADA) system for control and monitoring.

**North Avenue Pump Station – Fox Metro Water Reclamation District
(FMWRD)
Oswego, Illinois**

Mr. Dicientio was the Senior Technician responsible for all AutoCAD drafting on this new influent pump station which consists of three 45 HP variable frequency drive (VFD) pumps with one future VFD pump. A dry well unclassified area which contained the motor control center (MCC), remote telemetry units (RTU), generator and chemical storage tank as well as a wet well Class 1 Div 1 area which consisted of two separate wet wells and redundant pressure transducers per wet well for level control. An RTU/PLC provides for automatic controls. A natural gas generator is provided for complete power back-up.