



Michigan Tech

Images Courtesy of Seiler Instrument and Michigan Tech University Capstone Project by Jacob Fabian and Matthew Kunkel titled: Hydrographic Survey for Irrigation Pond Evaluation. The Trimble R10 GNSS rovers were used to establish control and to measure topo around the site. The Hydrone-RCV boat and a Sonarmite (depth finder) were combined with the R10 rover to map the bottom of the pond. See project images below.



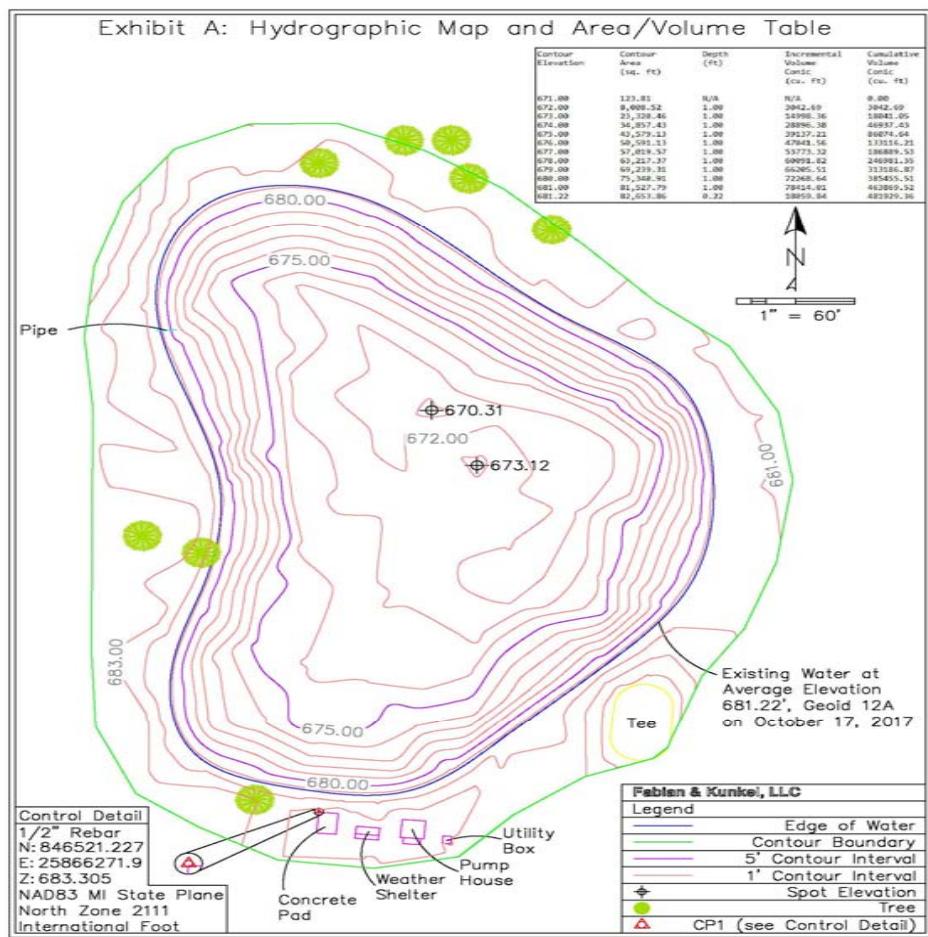


Exhibit B:
Portage Lake Golf Course - 3D Map
Houghton, Michigan



Pond Information:
 Area: 1.90 Acres
 Max Depth: 10.91 Feet
 Mean Depth: 5.62 Feet
 Volume: 3.61 Million Gallons

Mapping Information:
 Data Collection Performed: October 2017
 GPS: Survey Grade
 Points Collected: 450
 Pond Level: Full Pool

0 25 50 100 150 200 Feet



Fabian & Kunkel, LLC

