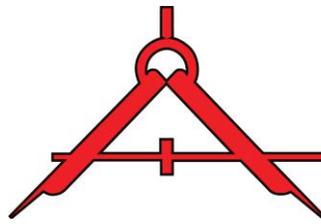# Construction

Digital Data

Summary

Here, we highlight how MDA Engineers has taken steps to improve the reliability and accuracy of data collected in the field. We also discuss how the tools our field staff use keeps the data digital.
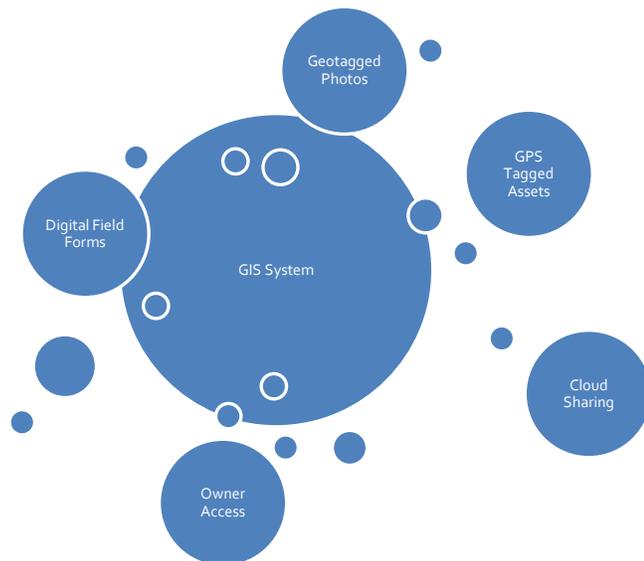
MDA ENGINEERS

Since 1982

Keeping it DIGITAL!

MDA Consulting Engineers recognizes the importance of not only collecting good data, but maintaining *ACCESS* to that data! We have invested time and effort into improving the efficiency of our field operations. We have improved the flow of information from our office to our field staff and from our field staff back to the main office. These improvements result in a REAL benefit to our Clients!

The challenge is taking several ideas and developing a process that connects these ideas in a meaningful and useful way.

Ideas that seem like they should be related to one another

We provide our field staff with laptops and internet access to allow them access to the Contract Drawings and Specifications as well as approved shop drawing submittals and other project related data. We also provide them with GPS enabled cameras so that every photograph is geotagged with a location! Our field staff complete their daily reports digitally so the data can be easily incorporated into databases, such as a GIS System.

We make use of cloud storage to improve workflow between the field office and the main office. We can also utilize the cloud to pass information along to the Owner.

MDA Consulting Engineers, PLLC

Since 1982

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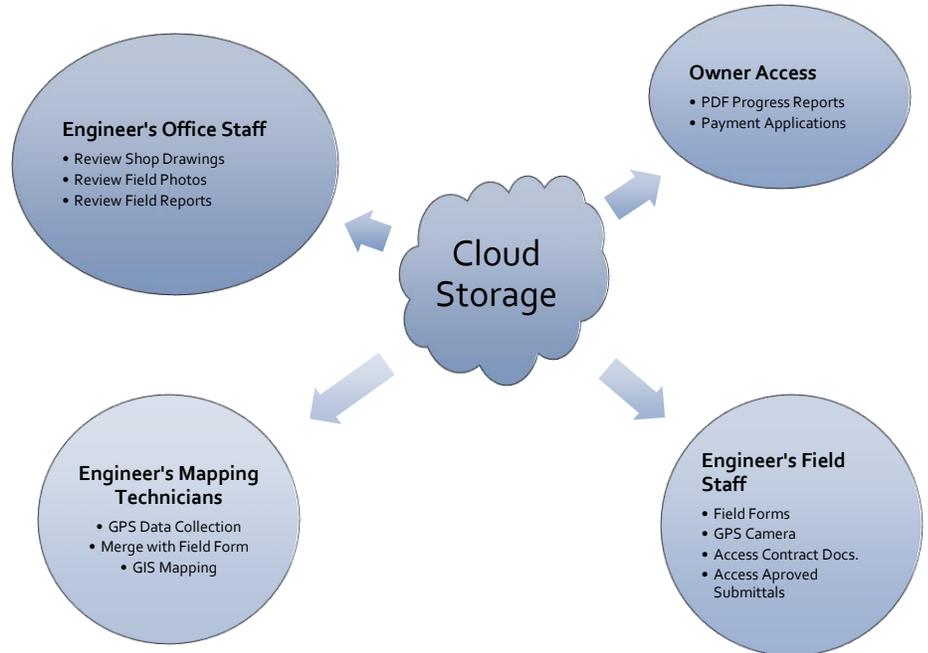
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Engineer's Office Staff
- Review Shop Drawings
- Review Field Photos
- Review Field Reports

Owner Access
- PDF Progress Reports
- Payment Applications

Cloud Storage

Engineer's Mapping Technicians
- GPS Data Collection
- Merge with Field Form
- GIS Mapping

Engineer's Field Staff
- Field Forms
- GPS Camera
- Access Contract Docs.
- Access Aproved Submittals

Making Efficient Use of the Cloud for Collaboration and Organization

Questions and Answers

Q. We don't have a GIS system. Why all this talk about GIS?

A. GIS is a user friendly way to gather a bunch of related information into one platform to make accessing that information easier. It also incorporates a map interface that is particularly helpful with a public utility system. We collect the data to make it easy to start a GIS system if you choose to do so in the future. It can also be added to an existing GIS system if you already have one in place.

Q. How does this benefit me as the Client?

A. When building new infrastructure, collecting the data digitally in the first place helps you not have to pay someone else in the future to convert your data into a digital system. Organizing the data digitally also allows the Engineer to more efficiently group data to provide you with the information you need during the Construction Phase. Need to know all of the Grinder Pumps installed, but not yet commissioned? No Problem.

Have any other questions? Contact us Today!