



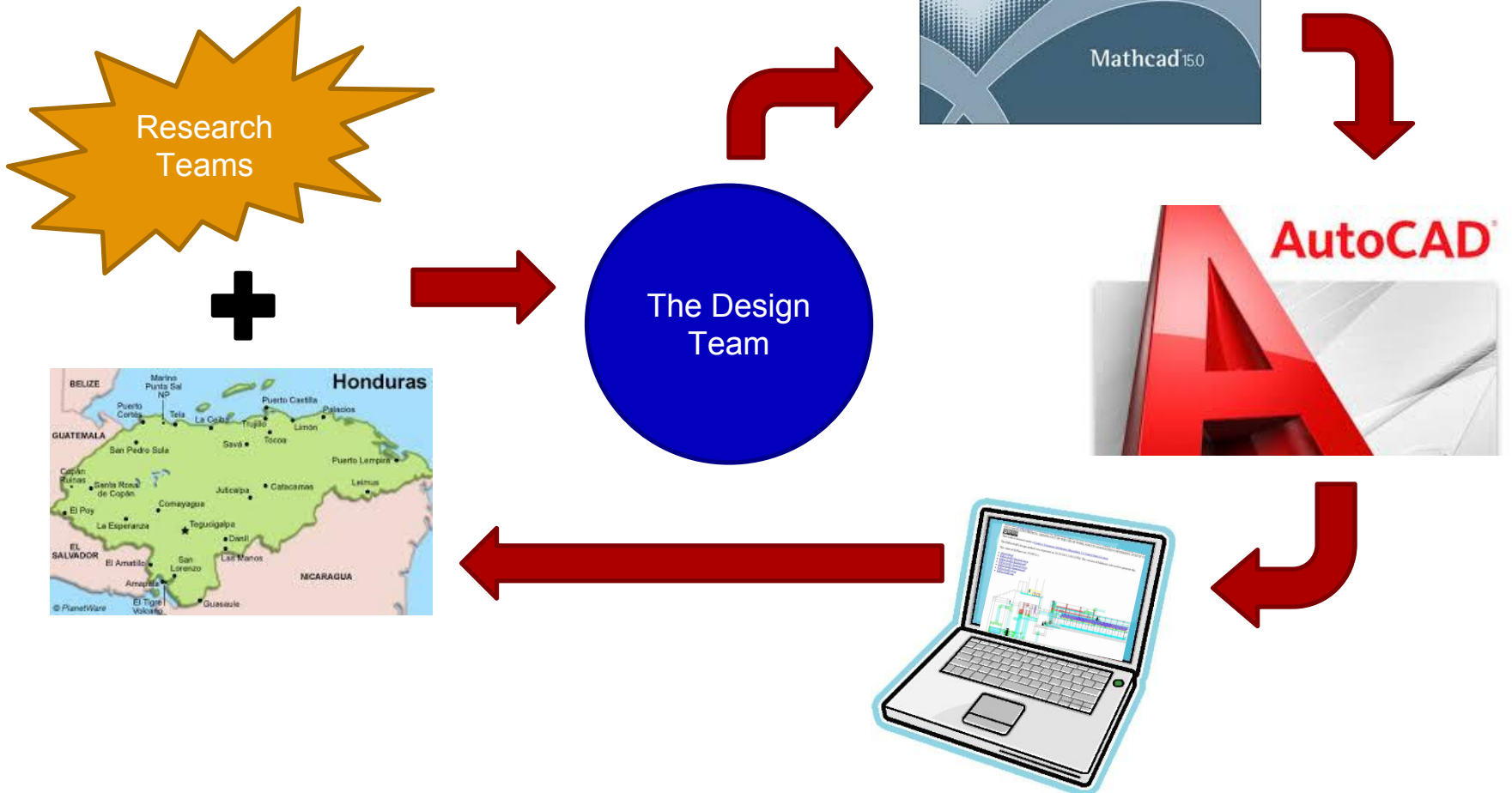
Design Team

Group 1



Cornell University

Design in general...





Section Cuts

David Gold and Meghan Furton
Design Subteam

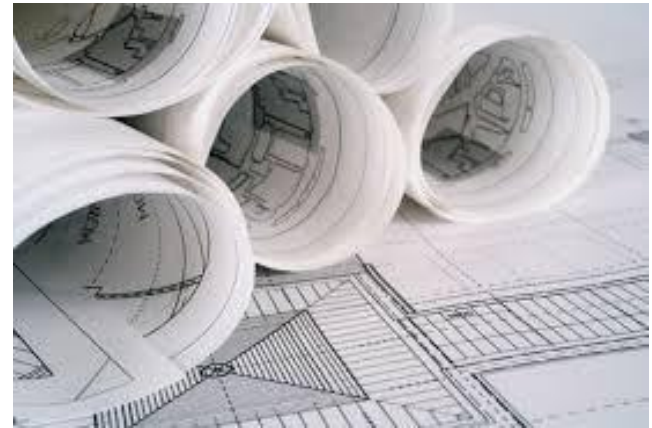
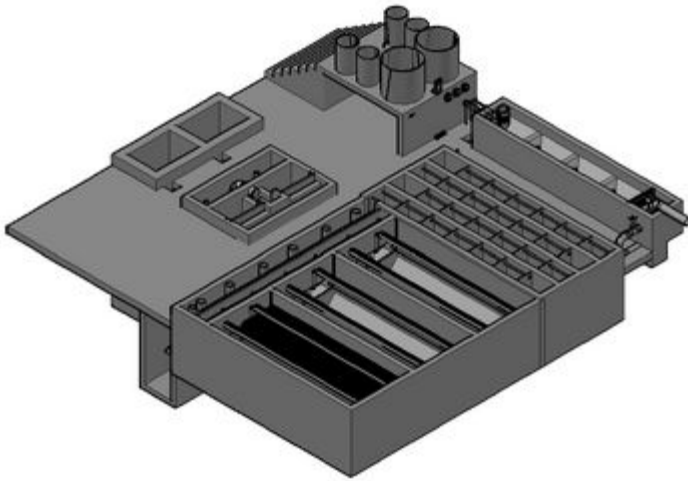


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3D

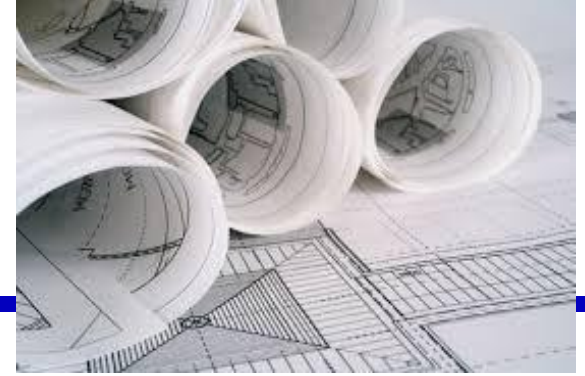
AUTOMATED

2D





Why?



Useful for construction

Saves time for partners in the field

Graphics intensive

Professional product

Easier to see different plant components



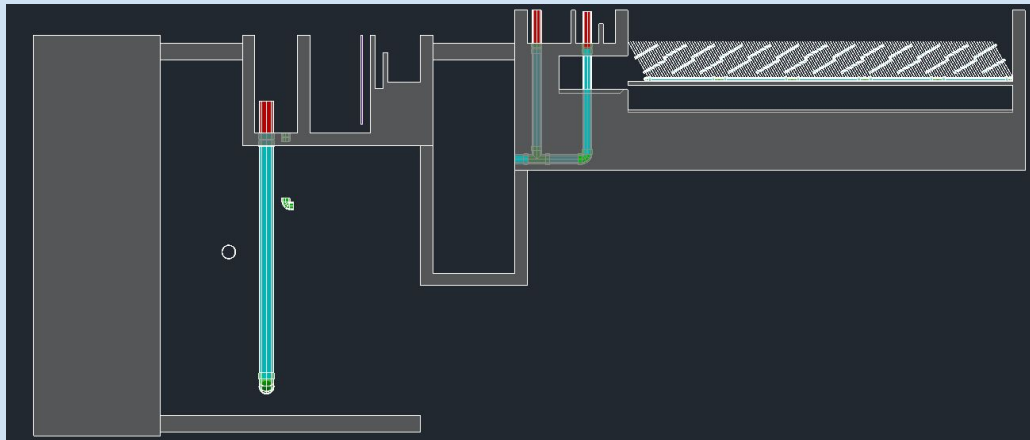
Challenge

Dialogue Box vs. Command Line

Slices instead of Section Planes!

Eliminating the need for special ddl files

Easily preserve layers





AguaClara

Modular Designs

Stephanie Sun



Cornell University

- Purpose:
 - Create component designs so that individual parts of the plant can be requested separately

Design Methods

Sedimentation Tank

The SedimentationTank method creates a sedimentation tank(s) based on a desired flow rate.

[Request a Sedimentation Tank design](#)

Linear Flow Orifice Meter

The LFOM method creates a linear flow orifice meter based on the target range of head and flow rate.

[Request a Linear Flow Orifice Meter design](#)

AguaClara Plant

The EtFlocSedFi Method creates an AguaClara water treatment plant based on the user input of a desired plant flow rate (Only use for flow rates above 7 L/s).

[Request an AguaClara Plant design](#)

<http://designbeta.cee.cornell.edu/Designs/>

Standard designs using the Sedimentation Tank method.

The SedimentationTank method creates a sedimentation tank(s) based on a desired flow rate.

These designs were created with version 7215 of the design code.

- [3Lps](#)
- [6Lps](#)
- [20Lps](#)
- [70Lps](#)

Custom Design

If you would like a custom design that is not available above, you can submit a design request to our design server.

Name:

Email:

Organization:

Country:

Project Title:

Project City:

Project State:

Project Notes:

flow rate (L/s):

plate settler width (in):

maximum inlet manifold diameter (in):

upflow velocity (mm/s):

capture velocity (mm/s):

spacing between the plate settlers (cm):

launder head loss (cm):

Sedimentation tank outer wall thickness (m):

Sedimentation tank dividing wall thickness (m):

Sedimentation tank channel wall thickness (m):

Floc blanket depth (slope peak to floc weir) (m):

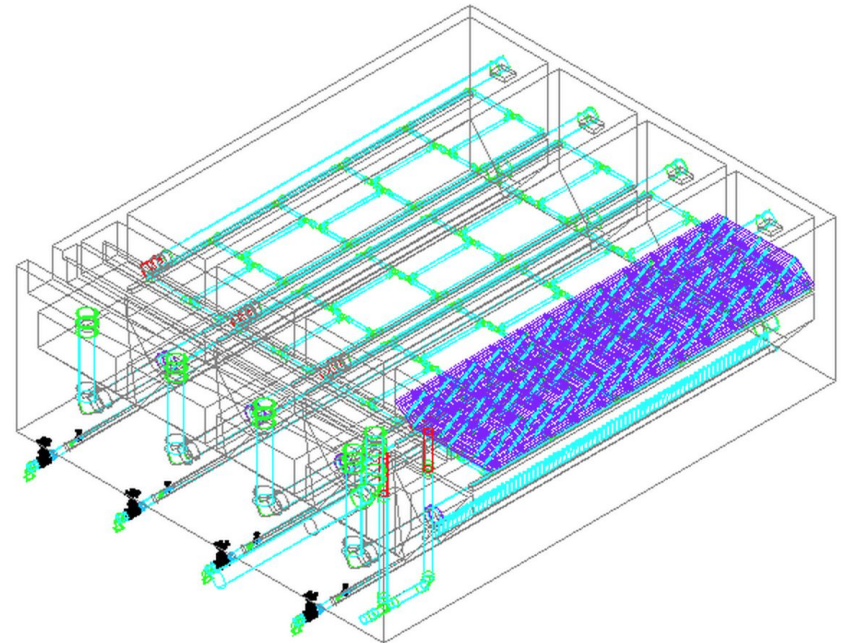
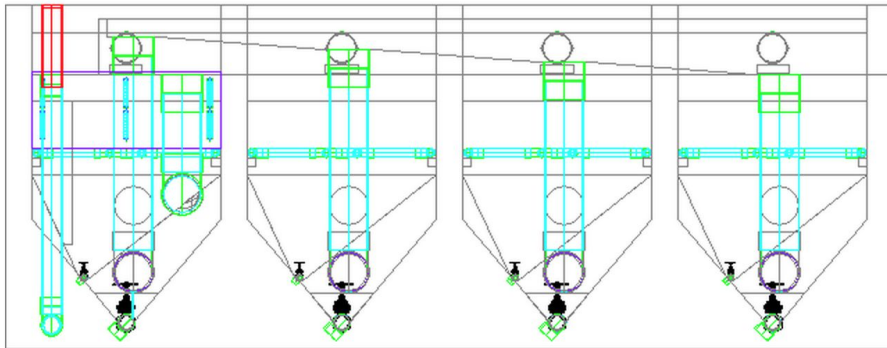
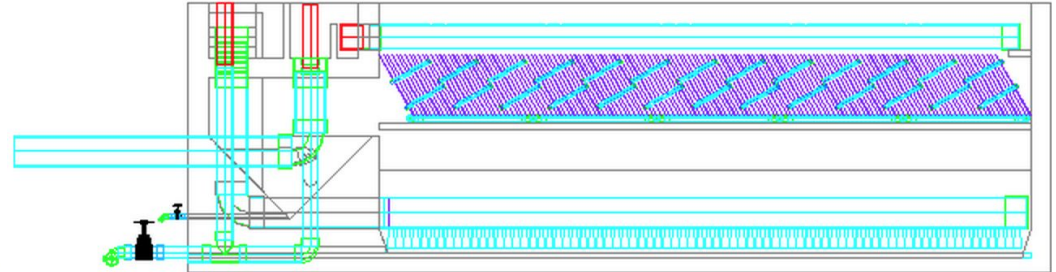
User Inputs

➤ Progress: Sedimentation Tank

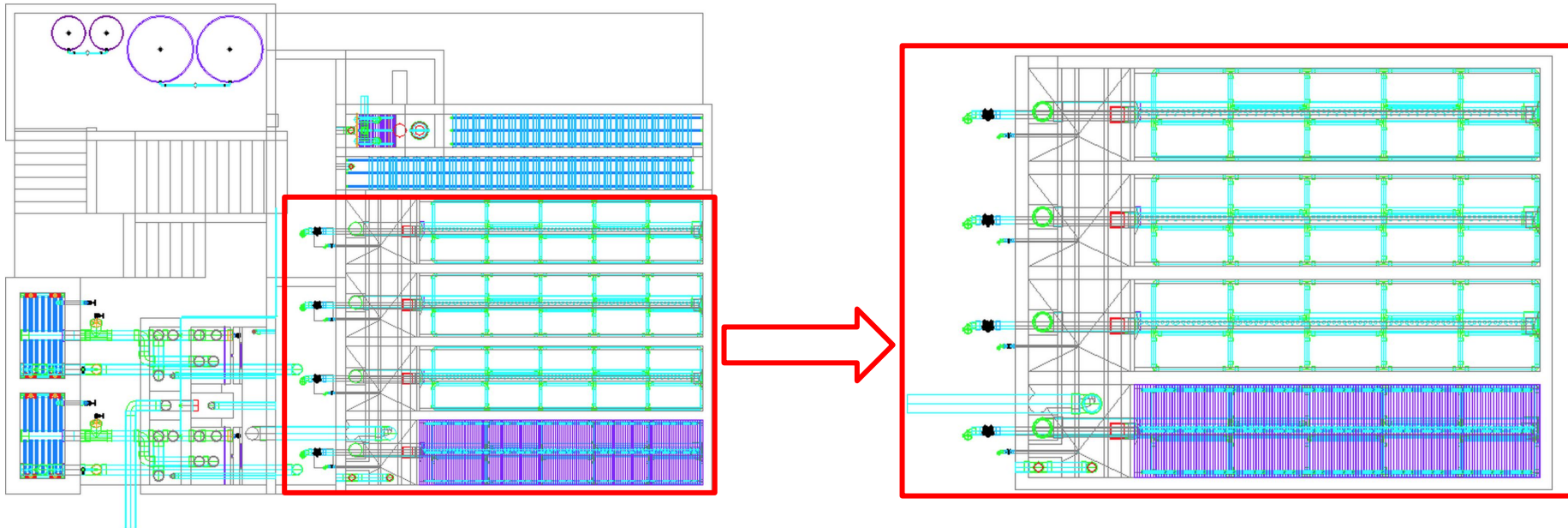
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- 6Lps
- 20Lps
- 70Lps



- Future:
 - Continue to create modular designs for other plant components



➤ Questions?

