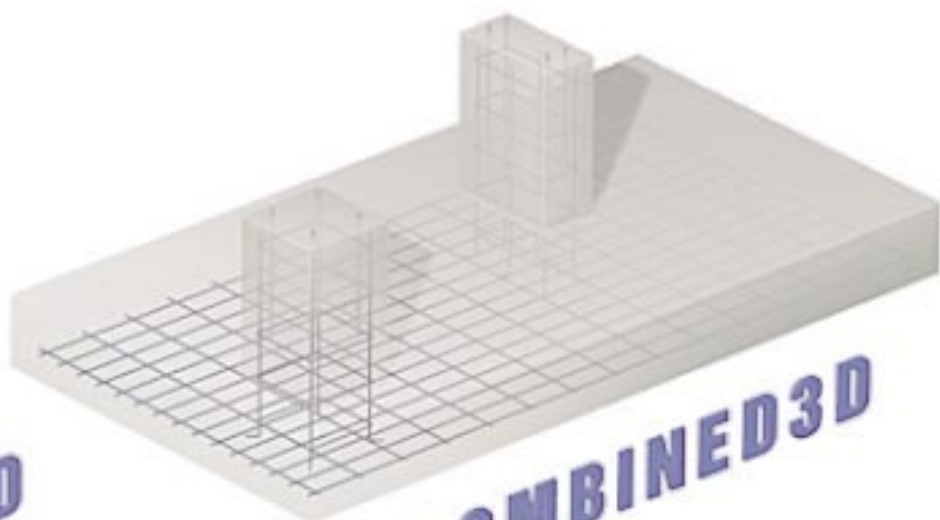


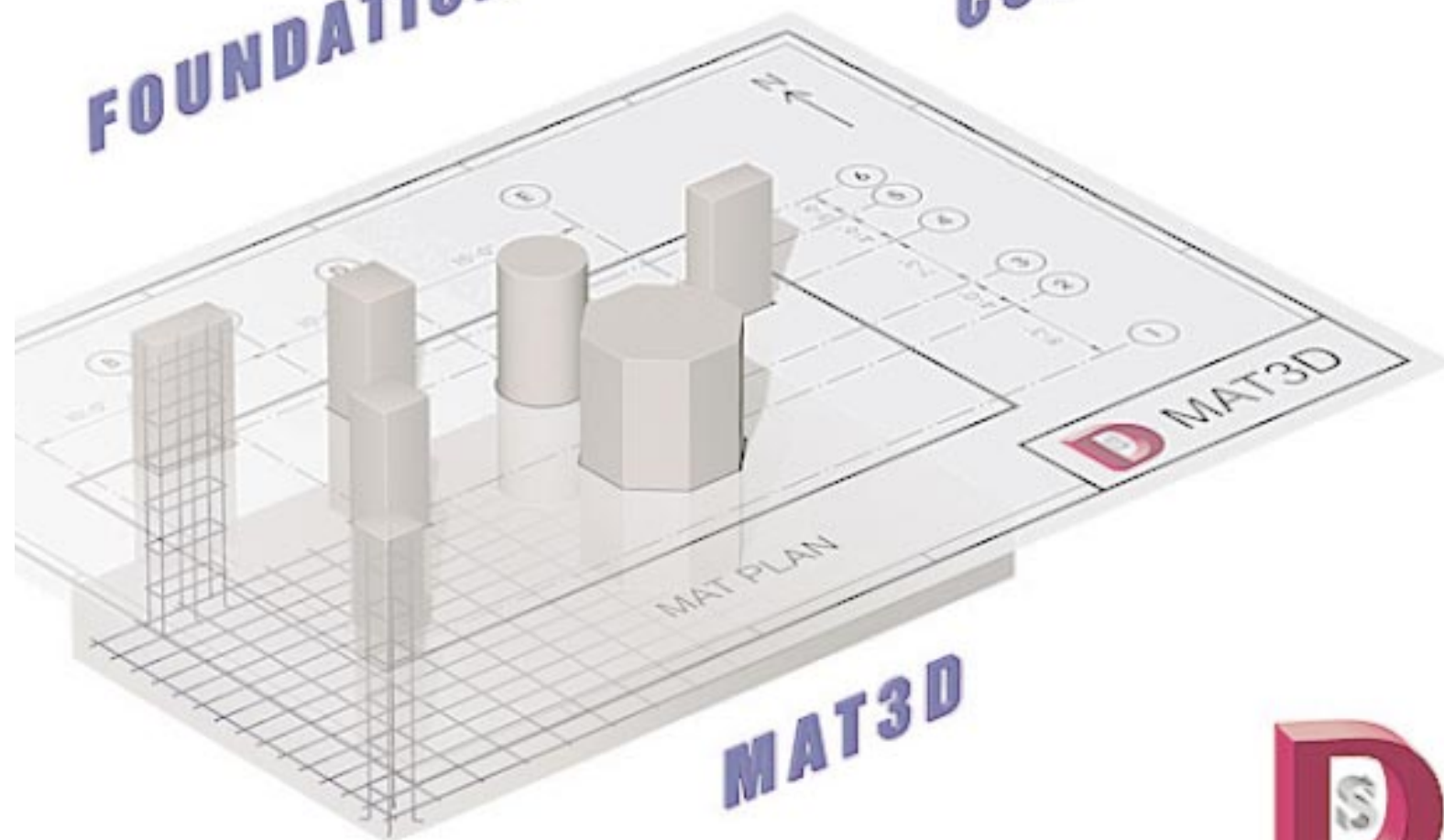
Advanced Software for Foundation Design



FOUNDATION3D



COMBINED3D



MAT3D

DIMENSIONAL SOLUTIONS, INC.



From Foundation Geometry to Construction Drawing in Minutes!

Foundation Design Ha

Powerful Design

To complete a design/analysis using standard industry codes, enter only a few parameters such as minimum footing depth, soil cover and pier loads. The program then takes over and within minutes it generates dimensional design sketches with plan, elevation, and section(s) through piers.

- ◆ Design and analyze symmetrical/ unsymmetrical mat, combined, or spread **soil and pile supported foundations**.
- ◆ Control design to meet your company's or client's standards.
- ◆ Adhere to domestic and international code load case/combination requirements.
- ◆ Change pile pattern to asymmetrical anytime.
- ◆ Generate dimensioned, relative-scale sketches for use as intermediate or final deliverables.

Complete Material Quantity Generation

If you are trying to allocate project costs or estimate the material lead times of the project, you know the value of having the material quantities. Dimensional Solutions' products generate material quantities at design time so you can estimate costs and project completion times more accurately.

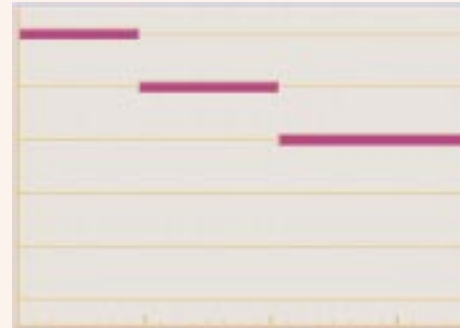
- ◆ Generate concrete, reinforcing steel, formwork, and excavation quantities for your estimator or your construction field crew.
- ◆ Determine project material and labor costs accurately.

Auto-Load Generation

With **FOUNDATION3D** you can complete horizontal exchanger, horizontal vessel, vertical tower, or a pipe rack foundation design in minutes. You merely enter the equipment geometry such as exchanger or vessel diameter or the tower height to obtain program-generated automatic load combinations.

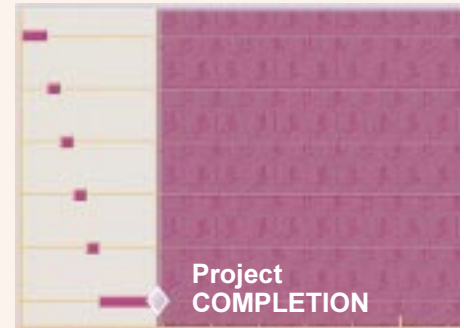
- ◆ Save valuable time in generating routine load combinations.
- ◆ Generate your own load combinations to meet your client's specific requirements.
- ◆ With a few mouse clicks, eliminate guess work regarding the adequacy of existing foundation to support new loads.

Input Geometry
Load Generation
Analysis/ Design
Foundation Sketches
Material Quantities
Construction Drawings

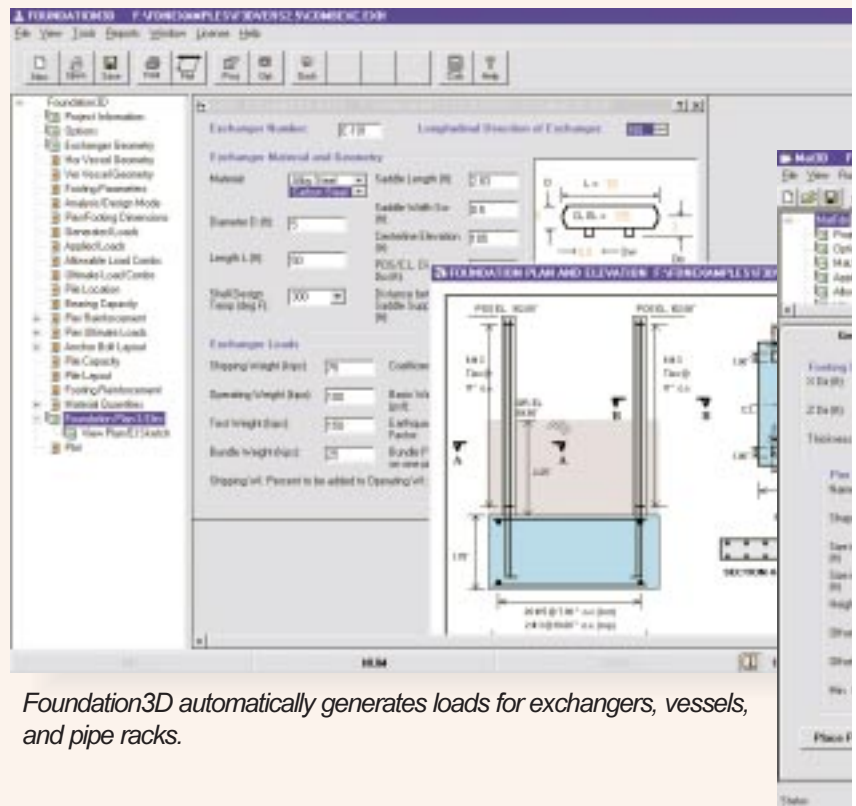


Project Timeline

Input Geometry
Load Generation
Analysis/ Design
Foundation Sketches
Material Quantities
Construction Drawings



Project Timeline



Foundation3D automatically generates loads for exchangers, vessels, and pipe racks.

as Never Been Easier

**Without
Dimensional Solutions'
Design Suite**

**Project
COMPLETION**

**With
Dimensional Solutions'
Design Suite**

Create Final Design Sketches and Construction Drawings in Seconds

Since Dimensional Solutions' suite automatically creates design sketches and full construction drawings, you can use your resources more effectively. Imagine the workhours and costs that can be saved by having the application create the construction drawings.

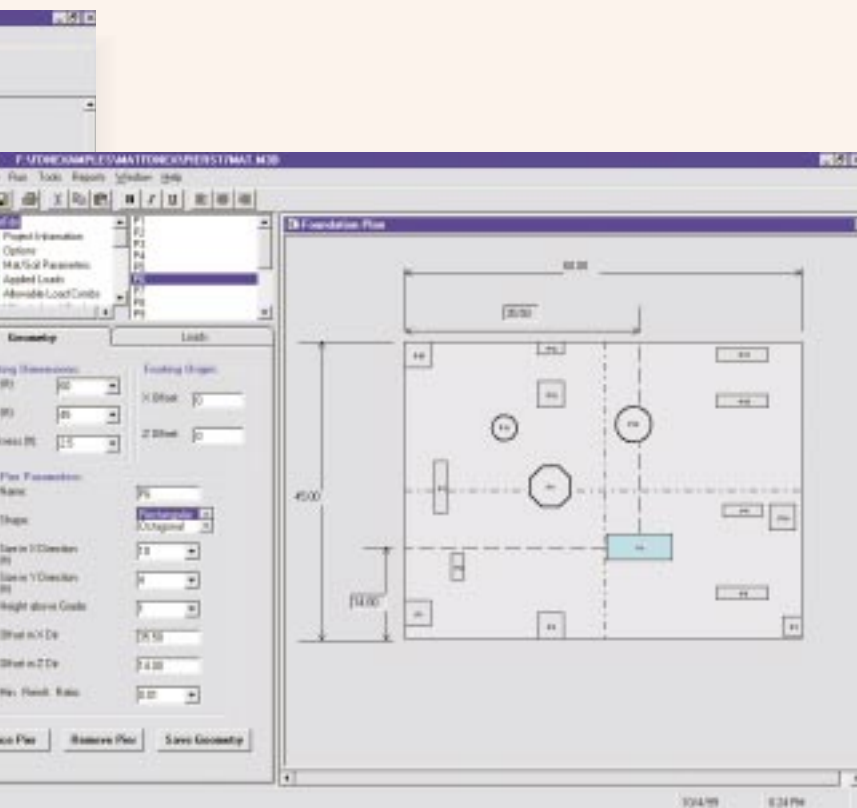
- ◆ Distribute foundation design sketches consisting of plan, elevation, and sections through user specified piers and material quantities to your upstream or downstream clients.
- ◆ Generate final construction drawings in a popular CAD engine of your choice such as **Autocad®**, **Microstation®**, and **SmartSketch®**.
- ◆ Eliminate down time between design and construction by delivering revised construction drawings reflecting field changes in seconds.

Single Program Solution

As a design engineer, you know the sequence you have to follow and the time it takes to complete your foundation design. Rather than using different programs to perform different tasks in the design workflow such as pier design, footing design, pile layout design, material quantity generation, and construction drawing creation, Dimensional Solutions' design suite combines these multi-step tasks into one simple, integrated program.

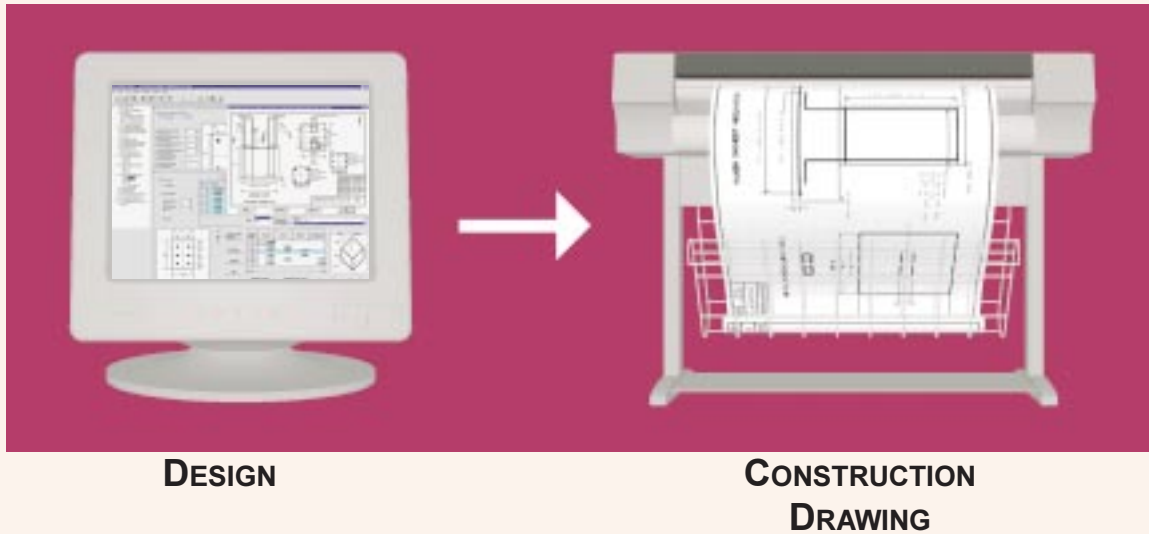
Dimensional Solutions' design suite has been developed by Civil/Structural engineers for Civil/Structural engineers.

- ◆ Increase productivity by reducing the number of intermediate manual design steps.
- ◆ Efficiently utilize human resources through increased productivity.
- ◆ Reduce overall project costs by efficient utilization of human resources.



3D allows unlimited piers in the design.

Design to Drawings in One Software Solution



For Your Comprehensive Foundation Design Needs Dimensional Solutions' Foundation Design Suite

Mat3D™ - Residential/Commercial/Industrial/Petrochemical Applications

Designs spread, combined, and mat foundations.

Combined3D™ - Residential/Commercial/Industrial Applications

Designs spread and combined foundations.

Foundation3D™ - Petrochemical Applications

Designs spread and combined footings with automatic load generation for horizontal exchanger, horizontal vessel, vertical tower, or a pipe rack foundation.



Dimensional Solutions, Inc.
ADVANCED SOFTWARE FOR FOUNDATION DESIGN

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