



STRUCTURAL DESIGN & DETAILING

iCAD, the engineering division of Infobase Inc., specializes in providing services in the areas of structural and product engineering.

Our engineers have successfully executed several projects for American fabrication companies on both **west and east coasts**.

Service Areas

We provide **structural designs** and **drawings** for industrial, commercial and institutional buildings.

iCAD provides a **complete engineering package** on your project; high quality structural design, connection design and detailing, erection and shop drawings customized to your standards and shop practices.

We use the latest version software for design and detailing. iCAD believes and has invested in high end tools like **Xsteel** to provide high quality deliverables.

Methodology

iCAD has a well defined system for design and detailing. The **3C** system followed by our team helps to deliver quality deliverables on time, every time.

Correct: We interact with the customer to ensure correct interpretation of all critical points.

Continuous: We continuously interact with the customer to incorporate the latest and correct information into the design / drawings.

Customized: Based on experience, iCAD has evolved general standards for design and detailing services. These standards are based on **AISC, NISD, ACI** norms and industry practices. We also establish **customer standards** specific to individual clients by incorporating their shop standards into our database. These standards will then be followed for all the projects for the specific customer.

Deliverables

The deliverables for design services include Connection designs, Member designs, Column designs and load analysis.

The deliverables for detailing services include AB-plans, E-plans, embeds, templates, shop drawings, AML and miscellaneous items.

Quality

iCAD strongly believes that quality has to be built in from the beginning. At iCAD Quality is achieved by having Standards, Quality systems, Matrix systems for measurement & analysis. iCAD has a very strong quality team to ensure that deliverables are of the highest quality.

Infrastructure

Our well-equipped design centers have over 35 networked computers, scanners, plotters and high-speed connectivity. Our Design center works round the clock to provide support to our customers across the globe.



Associate Member



Member

...Where *intent* turns into *content*

Projects

The following project details indicate the ability of the iCAD team to handle large complex projects.

OMS / Marine AMSA Building

This project was done for the Marine Corp in North California. This project involved detailing of Steel columns, which were on pile foundations, bottom chord framing with skewed beams connected to the columns with bent plates, the roof was hip & valley type with supporting joists, trusses, crane girders, crane rails and miscellaneous items like steel lintels & brace angle between joists. The project was executed in both **Imperial and Metric** units.



California Department of Transportation: San Jose Maintenance Facility

This was a fast track project and iCAD completed the detailing of Maintenance facility for CALTRANS in San Jose, CA in five weeks. The project involved detailing of structural steel, canopies and miscellaneous items for six buildings. The complexity of the project was very high and added to this the project needed conversion from metric system to imperial system.



Baltimore Ravens Training Facility

iCAD has been contracted to provide the detailing and connection designs for NFL's Baltimore Ravens new training facility in Owings Mills, MD. The 400 ton steel structure project involves detailing of structural steel and designing of all the connections. The detailing involved foundation plans & associated sections, column markup & detailed drawings, partial roof / floor framing plans & shop drawings for framing beams, brace elevation and miscellaneous items like bent plates, continuous angles, stub columns, floor opening & kickers.

The connection design involves designing of moment connections (TS column to wide flange beam, wide flange beam to beam) and shear connections (connection to flange, web of column and beam to beam).

Giant Supermarket Store # 278

This project was a supermarket in MD with main roof framing plan. The columns were wide flanges supporting the roof framing beams. The main roof supported the deck with joists. The roof also had a condenser support framing. iCAD provided the foundation bolt plan & sections, columns, posts for roll up grill, stair stringer supporting post, main roof framing plan, deck supporting angles, pour stops, condenser support framing posts & beams, mechanical mezzanine floor & roof framing & canopy framing plans with lintels, embedment, embedded channels and continuous angles.



US Head quarters
Infobase Inc.
39560 Stevenson Pl., Ste 220
Fremont, CA 64539
Ph: 510-791-6000
Fax: 510-217-6666
Email: usainfo@infobaseusa.com
pat@icadsoft.com

Maryland Branch Office
iCAD Software Services
101 Avenue Way
Nottingham, MD 21236
Ph: 410-336-0231
Fax: 410-510-1278
tim@icadsoft.com
tim@infobaseusa.com

India Design center
iCAD Software Services
115/48, East End C main Rd.
9th Block, Jayanagar, Bangalore-560069
Ph: 91 80 653 7125
Fax: 91 80 653 7130
info@icadsoft.com
srs@icadsoft.com