



One Goal, One Passion - Synchronize with Future

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CORPORATE OVERVIEW

ABOUT US

Rydberg - specialize in the field of The AEC industry consists of separate players -- Architecture, Engineering and Construction.

Specialist engineering & architectural services & solutions company servicing clients across a range of engineering & architectural segments helping improve their engineering efficiency, support their global footprint and improve their competitiveness. Leveraging technology, domain knowledge, & our robust work planning methodology to ensure an effective global delivery model for engineering services projects, we have emerged as a partner-of-choice for leading international companies.

We not only deliver drawings, but also provide a professional assessment, consultancy, suggestions and the desire to improve each project. We pride ourselves in our team of highly trained individuals with years of engineering experience.

Your Trusted Partner For Structural Steel Detailing



CORE VALUES

- ❑ **Customer Focus:** A happy customer means a happy us. We adhere to timelines and make sure our customer is never worried about completion of the projects. We make sure in our effort being minutely accurate, we don't leave creativity and innovation out. And above all, our transparency tells the story of our products being of high quality and cent percent genuine.
- ❑ **Integrity:** Integrity is our core value. Every team player knows that it is a non-negotiable component of our work culture. We work with commitment and open mindedness as it help us maintain a long lasting relationship with both our employees and customers. We trust others and thus, others trust us.
- ❑ **Results:** We strive for excellence by delivering results that provide superior value and service that exceed both customer and shareholder expectations. We invest a lot of time in understanding what the client wants and see his vision before we begin to give it a tangible shape. With age-old ethics as guiding principles, we are a present-day company building futuristic infrastructure.



OUR Company

- ✓ We have 50+ detailers
- ✓ In-house Professional Engineers
- ✓ Licenced to stamp across US & Canada
- ✓ Detailed 3000+ tons of steel as of 2018
- ✓ We do all size of projects
- ✓ 3D drawings / BIM assisted
- ✓ PRICING best in the market
- ✓ Follows **OSHA, AISC, ASTC, SDI, SJI, NISD** Standards



Connection Design: Uniquely intelligent approach to connection design considers framing conditions and erectability, automatically performing clash prevention.

Cost Savings: SDS/2 Detailing value engineers connections on a project, designing the most economical connections to fabricate and erect.

Unmatched Drawing Quality: Only SDS/2 automatically generates details, submaterial drawings and erection drawings with unmatched drawing quality, saving detailers time and money.

SDS/2
DESIGN DATA

OUR Company

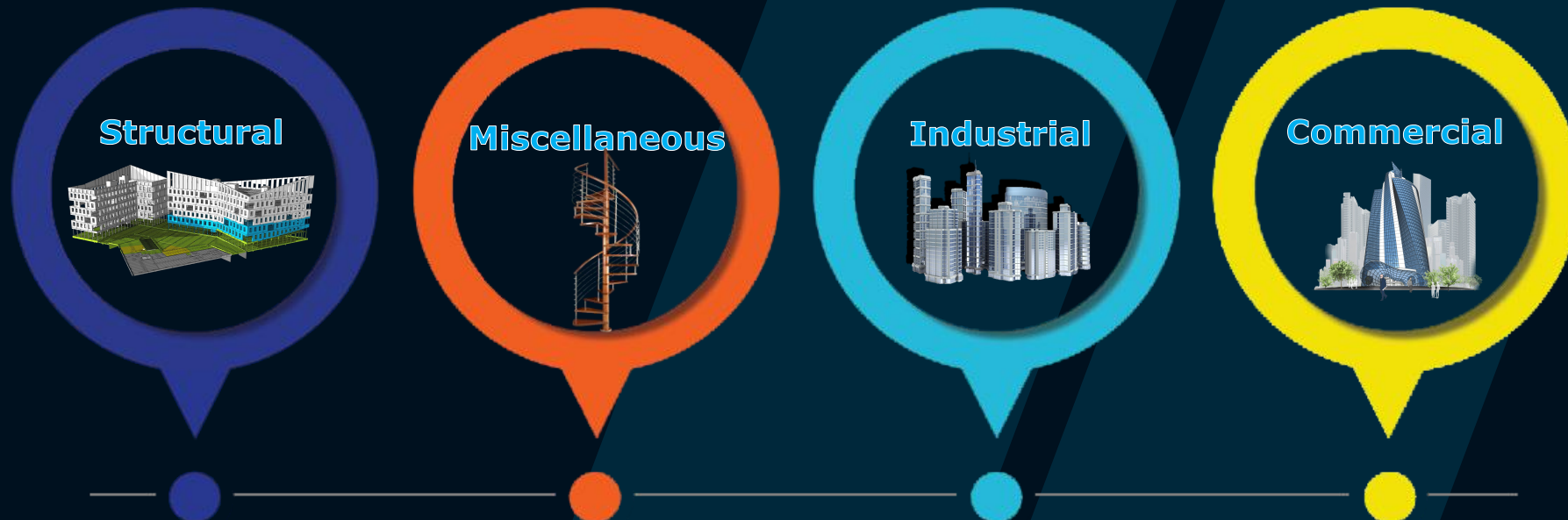
- ✓ Structural Steel Detailing
- ✓ Miscellaneous Steel Detailing
- ✓ Steel Joist & Deck Detailing
- ✓ Estimating Services
- ✓ Architecture Services
- ✓ Connection Design
- ✓ PE Stamping
- ✓ PEMB Detailing
- ✓ Building Information Modeling



SDS/2
DESIGN DATA

OUR CAPABILITIES

Quality begins with a sense of pride in what we do by bridging relationships with craftsmanship and dealing dexterously in "Steel detailing".

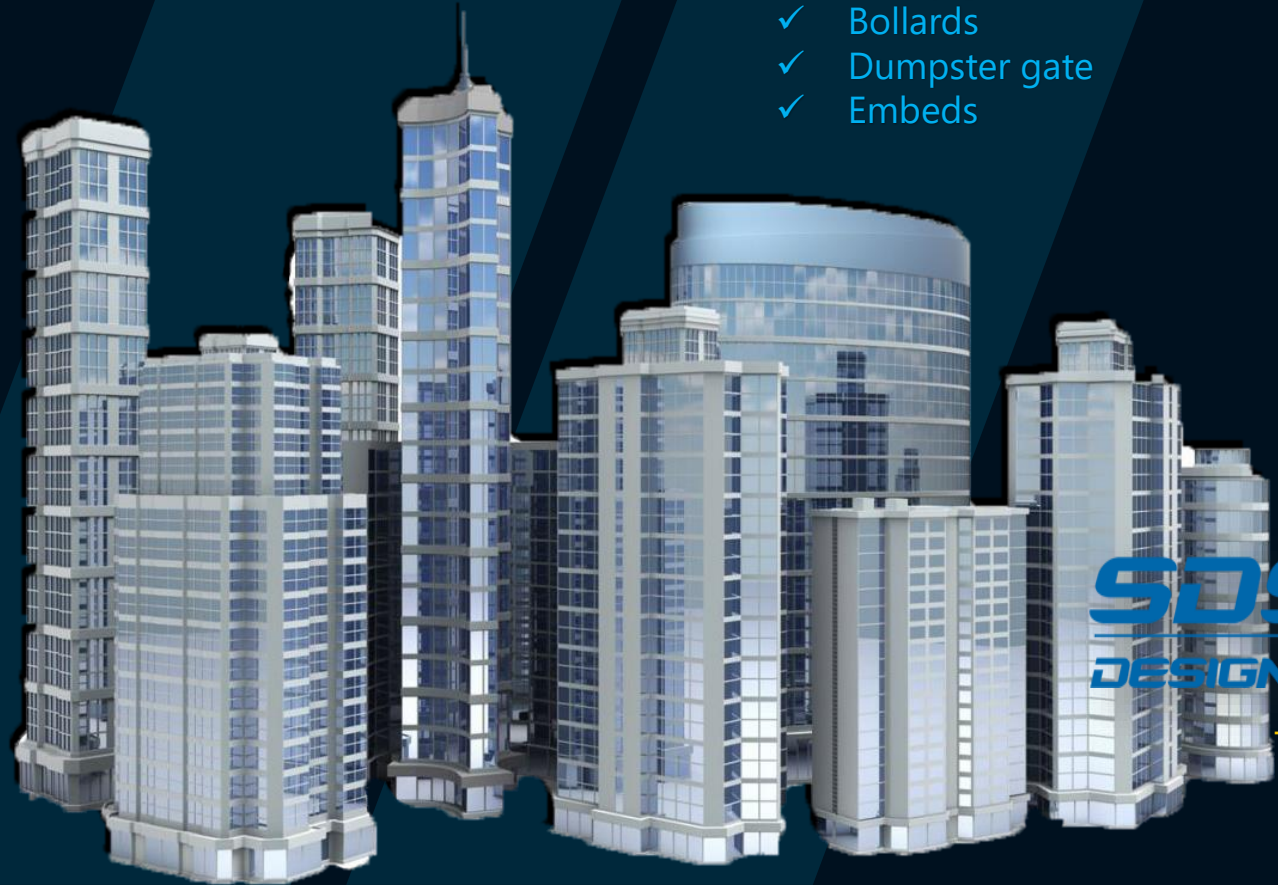


SDS/2
DESIGN DATA

Structural & Miscellaneous

- ✓ Connection design and calculations (ASD/LRFD or customer specific standards)
 - ✓ Basic design concept/preliminary and detailed structure design/design back-up calculations
 - ✓ Design of steel, and pre-cast elements.
 - ✓ Modelling and analysis
 - ✓ Drafting of construction drawings
 - ✓ Material take-off
 - ✓ Foundations design
 - ✓ Professional engineer review and sealing
-
- ✓ Egress Stairs with Railing (Switch back/Box stair /Scissor stairs)
 - ✓ Industrial access stairs with railing
 - ✓ Platform guardrails
 - ✓ Platform grating/ checkered plate
 - ✓ Ladder with / without gage

- ✓ Ship ladder
- ✓ Safety gates
- ✓ Bollards
- ✓ Dumpster gate
- ✓ Embeds



SDS/2
DESIGN DATA

Commercial & Industrial

OUR Capabilities

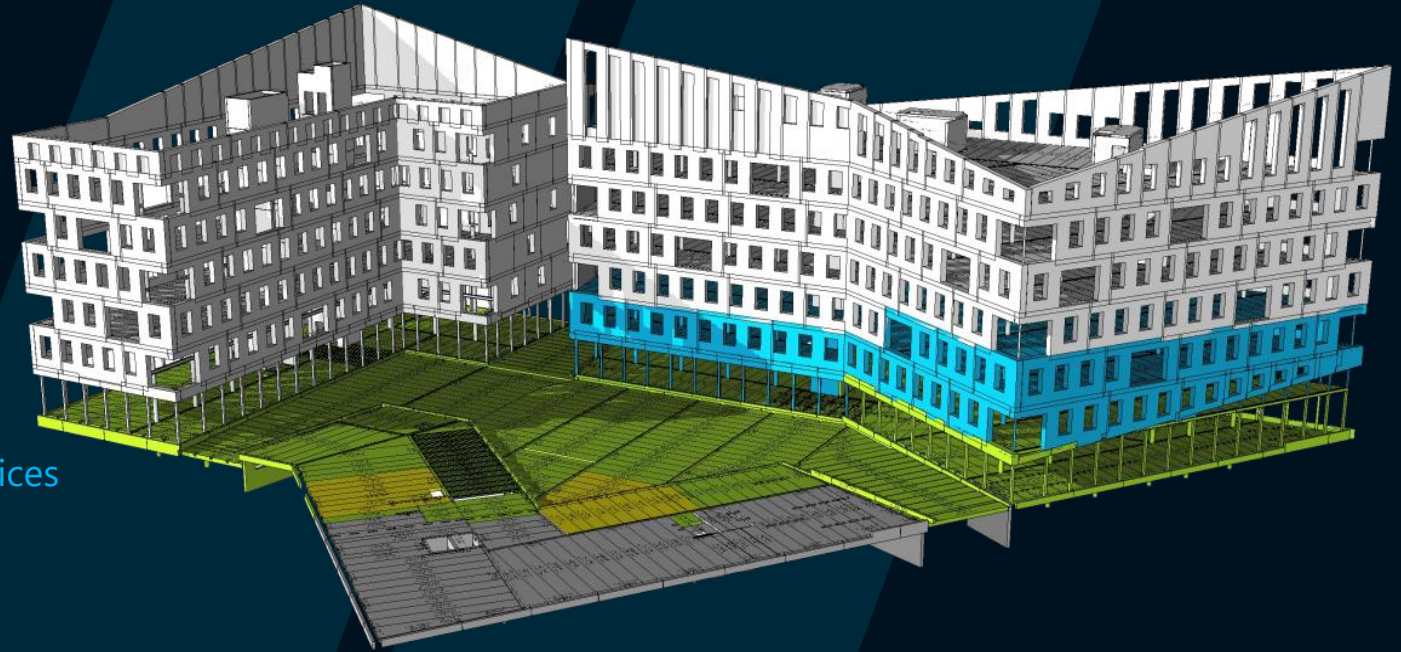
- ✓ Industrial Plants
- ✓ Health care facilities
- ✓ Schools and institutional structures
- ✓ Commercial and retail buildings
- ✓ High rise condominiums and apartments
- ✓ Multiplex cinemas and theatres
- ✓ Correctional facilities
- ✓ Parking structures
- ✓ Hotels and Inns
- ✓ Stadiums
- ✓ Churches



SDS/2
DESIGN DATA

Structural Engineering Design & Analysis

- ✓ Structural Steel Design and Analysis
- ✓ Structural Connection Design
- ✓ Design Sketches & Connection detail drawings
- ✓ 3D Steel Structure Modelling
- ✓ Peer review services
- ✓ Value engineering services
- ✓ Alternate material design checks
- ✓ Preliminary engineering consultation
- ✓ Design development services
- ✓ Design-Build or Design-bid-build engineering services
- ✓ Construction drawings services
- ✓ Co-ordination of drawings services
- ✓ Shoring and formwork design services



Sectors We Serve

✓ BUILDINGS

- ✓ Office Spaces
- ✓ Churches
- ✓ Sport Arenas and Stadiums
- ✓ Airports
- ✓ Parking Structures
- ✓ Warehouses
- ✓ Schools and Universities
- ✓ High-rise Residential Apartments
- ✓ Other Allied Structures

✓ INDUSTRIAL

- ✓ Energy (Power plants)
- ✓ Process Plants (Petro /Chemical /Steel /Cement)
- ✓ Oil & Gas (Onshore /Offshore)
- ✓ Others (Food /Medical)

✓ INFRASTRUCTURAL

- ✓ Traffic light poles and structures
- ✓ Wireless communication towers poles
- ✓ Street lighting tubular
- ✓ Transmission towers
- ✓ Bridges and Tunnels



Infrastructure

- ✓ Design and drafting as per AASHTO standard for highway signs, luminaries, and traffic signals
- ✓ Model generation, detailing, and connection detailing
- ✓ Part drawings creation, BOM generation, routing, plate nesting, and fabrication support
- ✓ Use of latest pole design and analysis software
- ✓ Project bidding and estimation support
- ✓ Project-based on extended team execution

models for customers

☐ Traffic Structures

- ✓ Traffic signal poles and mast arm
- ✓ Traffic overhead full span structure
- ✓ Traffic lighting pole
- ✓ Traffic signage structures
- ✓ Toll Gantry
- ✓ Catwalk platforms

☐ Lighting Structures

- ✓ Street and residential lighting poles
- ✓ Area lighting poles
- ✓ Decorative lighting structures
- ✓ Decorative base of poles
- ✓ High mast and sports arena lighting poles

☐ Communication Structures

- ✓ Communication utility poles
- ✓ Miscellaneous ladders and platforms for towers
- ✓ Miscellaneous brackets for T-arms and pole bands for platform

☐ Transmission Structures

- ✓ Steel lattice towers
- ✓ Tubular sub-station poles
- ✓ Transmission and distribution poles
- ✓ Standard Class poles
- ✓ Bridge and Tunnel Engineering



Our Deliverables

Pre-Process Stage

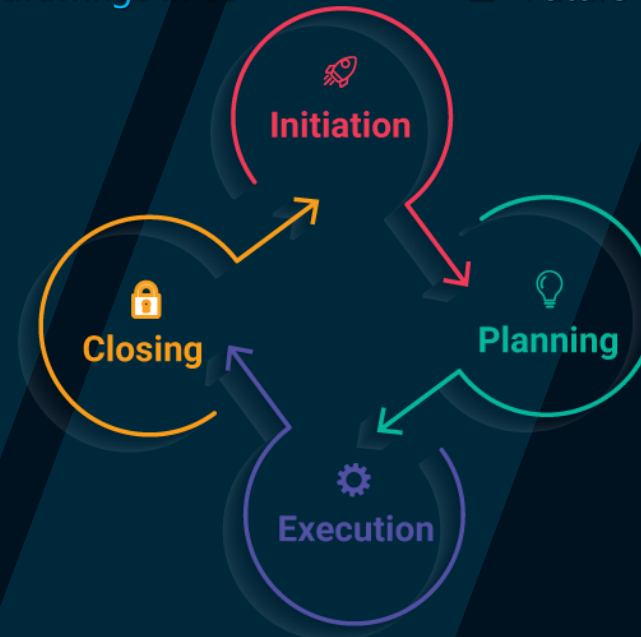
- ❑ Technical Synopsis- Pre-plan Drawings and Checklist, Customized Design Drawing Log & Design Drawing Folder
- ❑ Client specific ABM (Advance Bill of Material)
- ❑ Bought out Items
- ❑ Material Summaries

Project Execution Stage

- ❑ Shop Drawings
- ❑ Erection Drawings
- ❑ Drawing Log & Transmittals
- ❑ Part Drawings/ Gathers/ Attached material details
- ❑ Embeds/anchors details and placement drawings in co-ordination with concrete trades
- ❑ Precast Element Details & List
- ❑ Customised Shop & Field Bolt Details
- ❑ Customised NC Files
- ❑ Fabtrol /EJE import files
- ❑ DXF files for plate work
- ❑ 3D Models or 3D PDF
- ❑ Import files for BIM Model, Rivet Model
- ❑ AutoCAD drawings/ dwg Files
- ❑ Animation Support
- ❑ Field verification sketches

Post Completion Stage

- ❑ Data Security
- ❑ Model Backup
- ❑ Drawing Backup
- ❑ NC File Backup
- ❑ Future Expansion Project Support

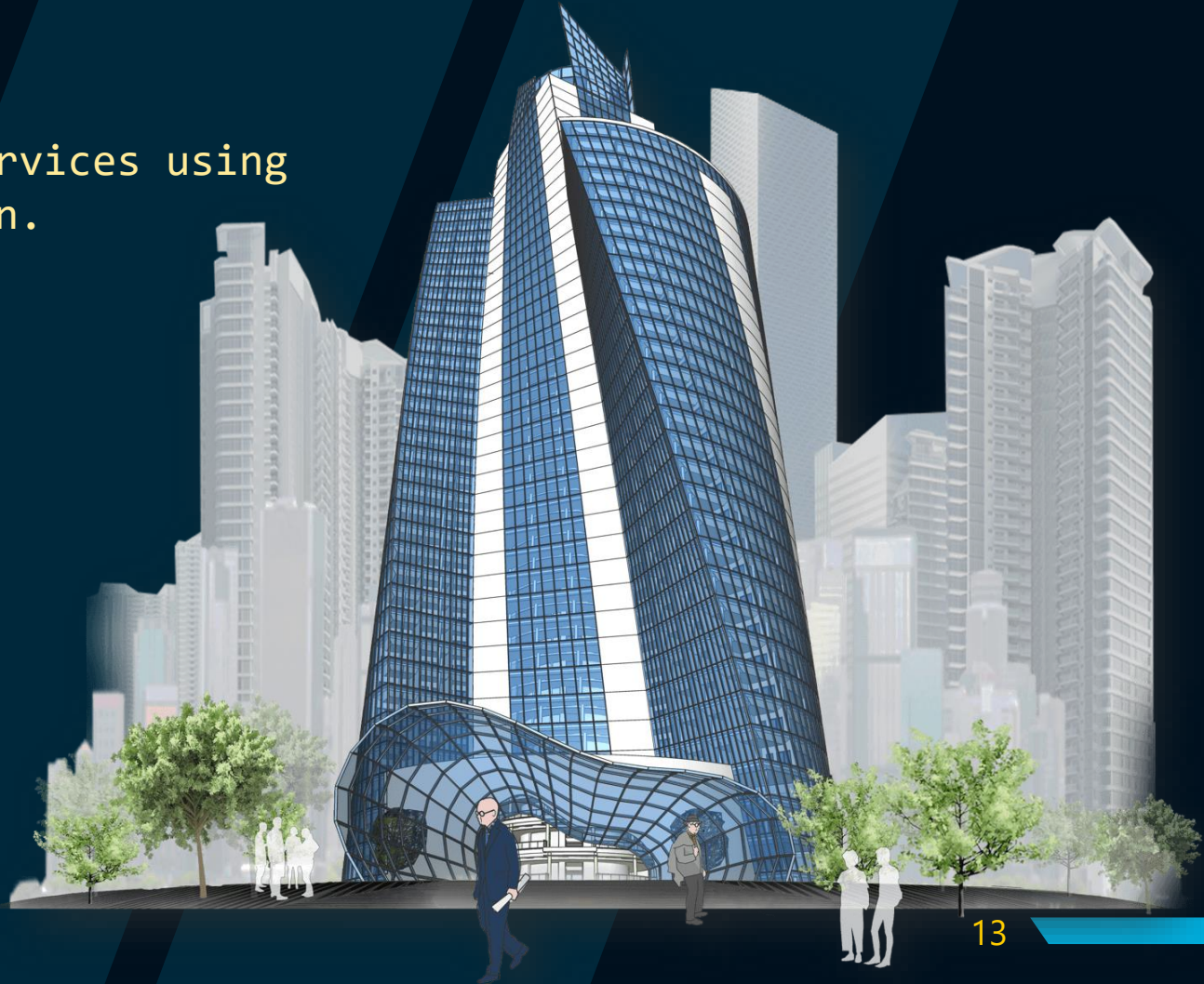


SDS/2
DESIGN DATA

Building Information Modeling

We provide building information modeling services using SDS2 platforms by facilitating collaboration.

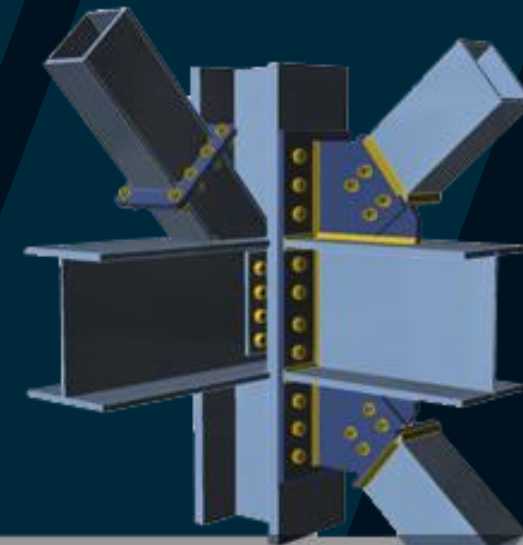
- ❑ The engineering design process is a complicated activity. It is often characterized by multi-disciplinary teams in multiple places working together, on a single project, using different models and software tools. In addition, such activities generate a large amount of data that require exchange among designers and stages of the work. In industry, the current collaboration approaches often focus on integrating and managing multiple models from multi-designers. Building Information Modelling (BIM) is playing a major role in facilitating collaboration. BIM provides an opportunity to electronically model and manage the vast amount of information embedded in a building project, from conception to completion. In the building design process, changes and modifications are inevitable even in the contemporary BIM approach. Such changes need to be well managed to keep track of changes to ensure that designers have an up-to-date version of the BIM model. The main goal of this research is to develop a collaborative BIM platform that tackles the challenges of integrating object versioning, as a change management approach, and an IFC model, as data representation of BIM. This has been done through suggesting new IFC extensions to add further concepts representing the history of changing to any object of the model. It also explores possibilities of adding or merging object-based change information to existing BIM models to enable the representation of design intentions, identification of affected changes numerically and visually. A prototype system is implemented in C#, using .NET framework and Revit API platform.



CONNECTION DESIGN

RYDBERG provides connection design service throughout United States of America and Canada. We offer structural steel connection design services. We have experienced structural engineers and project managers who can provide connection design services for industrial, commercial and many other different structures within a short span of time and with optimal accuracy.

- ❑ Connection design mark-up plans
- ❑ Structural Connection Drawings , Structural Analysis
- ❑ Designs as per ASD, LRFD and IS Standards
- ❑ Stair and railing design (Engineering and stamped calculations for connections)
- ❑ Beam-Beam Connections , Beam-Column Connections
- ❑ Moment, Axial, Bracing (Horizontal and vertical) and other lateral connections
- ❑ Complex Truss Connections
- ❑ Special connections per project requirement.
- ❑ Detailed Calculations along with Complete Report (Will also include every supporting Table, Connection Sketches, Mapping and Calculation Reports)
- ❑ Design calculations , Connection sketches , Connection tables
- ❑ PE stamping (if contract required)



CONNECTION DESIGN

STANDARDS

American

- American Institute of Steel Construction (AISC)
- American Welding Society
- Canadian Institute of Steel Construction
- Brazilian Steel Institute (IBS)

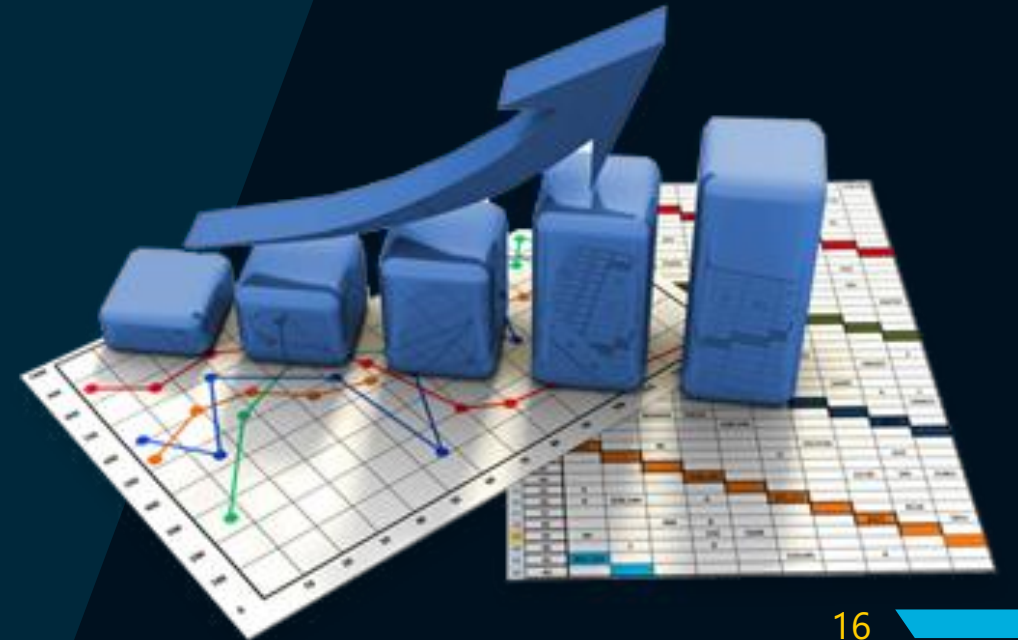


American Welding Society

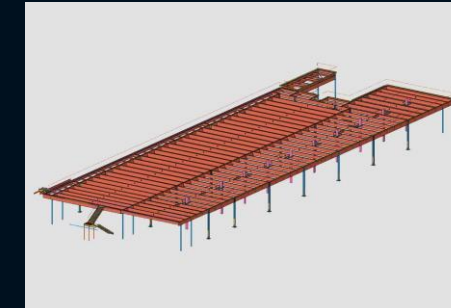
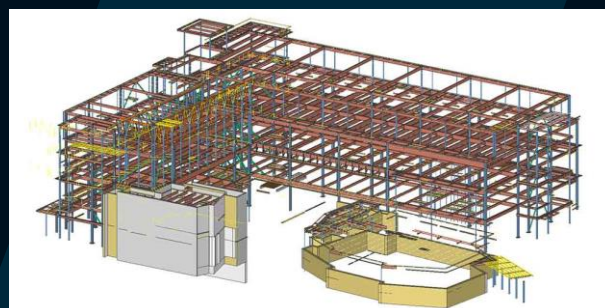
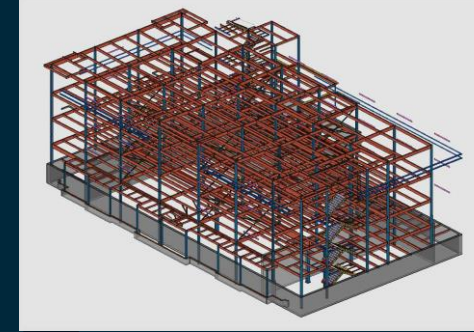
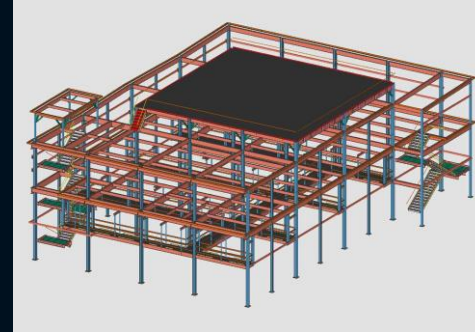
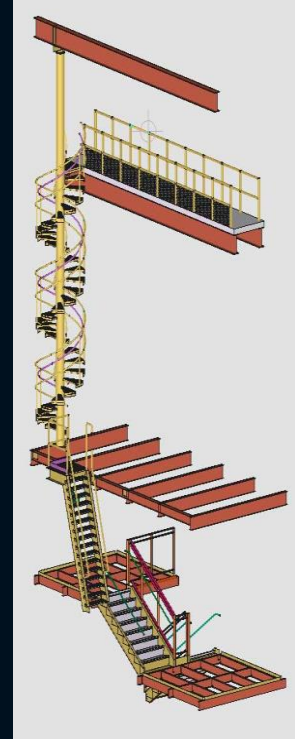
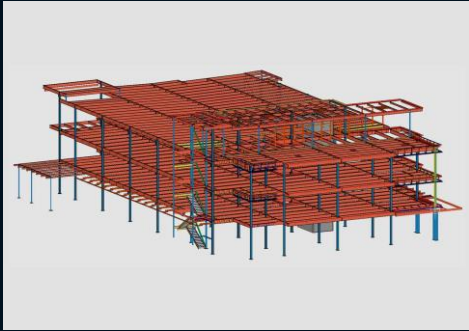


OUR CLIENTS

We have added 30+ clients since 2018, *and still growing.....*
In our list of satisfied clients



EXECUTED PROJECT's



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WE Design...
YOU BUILD...

THANK
YOU!

Arnab Sengupta

President & CEO



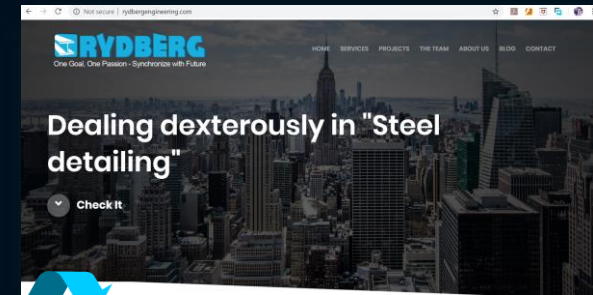
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