



**SWARA**

CONSULTING SERVICES INC.

EMPOWERING

**PROJECTS** WITH  
**ENGINEERING**  
**EXPERTISE**

ENGINEERING



# Introduction:

Welcome to Swara Consulting Services Inc., your partner in creating exceptional engineering solutions. We take pride in our commitment to excellence, innovation, and reliability.



## Our Mission:

Empowering projects with engineering expertise that translates your organization's brand promise into positive, profitable, and predictable customer experiences across the globe.



## Our Vision:

To be thought leaders in customer and service experience in 'Definition, Implementation, and Management,' aiming to become the preferred partner for our target customer segments in all Engineering Sectors & Industries.

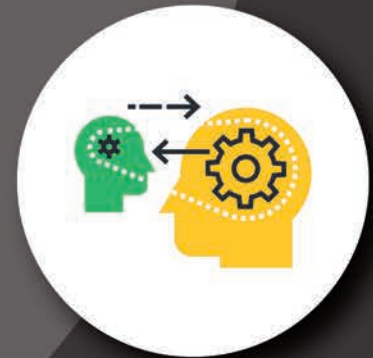
# Core Values:

**Founded on a vision of engineering excellence,** Swara Consulting Services Inc. has a rich history of delivering outstanding engineering solutions. Our core values drive us.



**Outstanding People:** We are dedicated to maximizing contributions, seeking personal growth, and effective collaboration.

**Customer Driven:** Prioritizing customer needs, we build business-focused relationships through clear communication.



**Winning Performance:** We focus on results, delivering objectives, going the extra mile, and producing high-quality work on time.

**Innovation in Action:** We create lasting solutions, seek process improvements, and show flexibility in thought.



**Fully Integrated:** We champion causes, build networks, overcome barriers, and involve others to deliver customer satisfaction.

**Our leadership team embodies these values, bringing their expertise and passion to every project.**



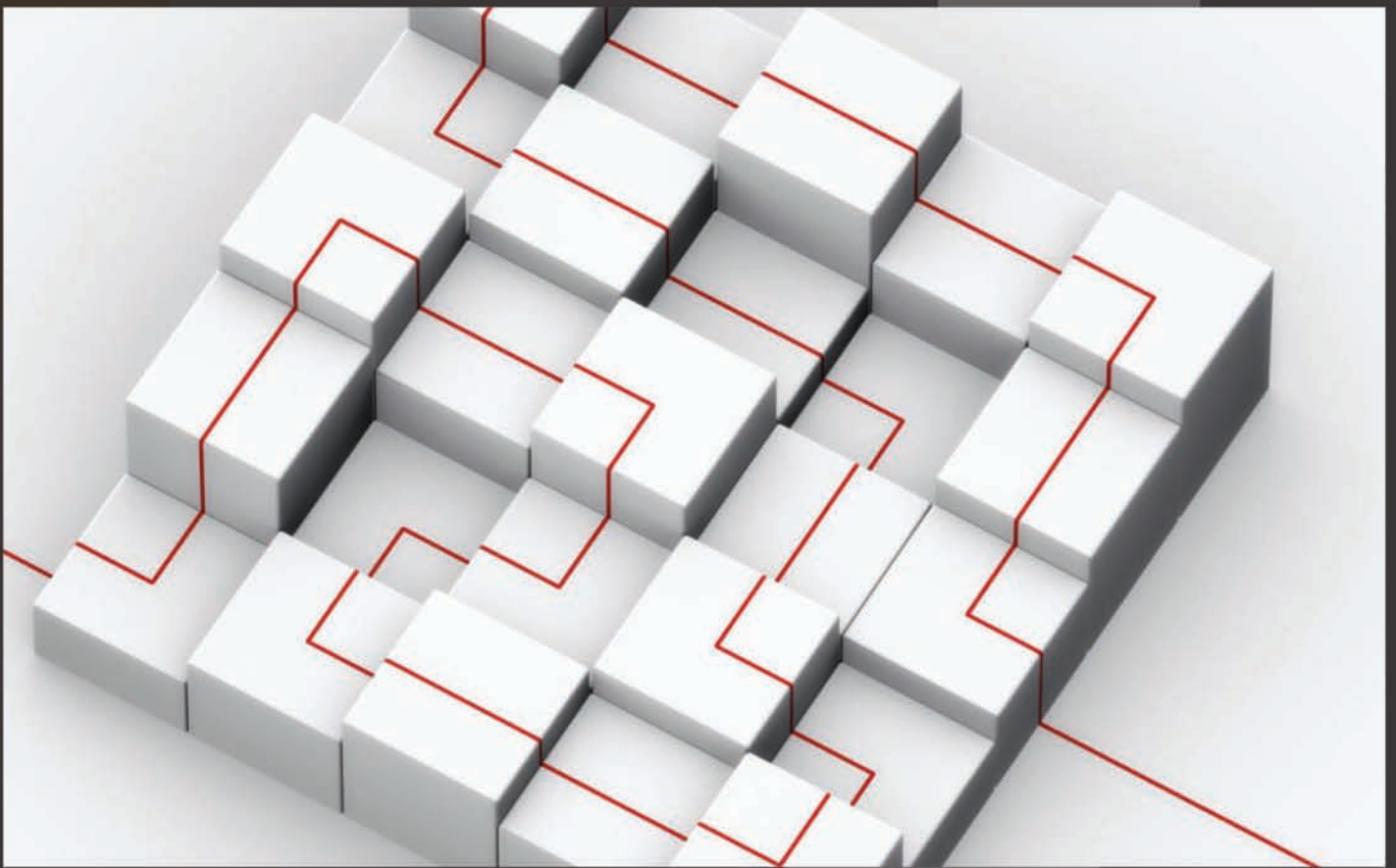
## Structural Steel Detailing

Swara Consulting Services offers a full suite of Fabricator and Erector support services for a seamless fabrication and erection process. This includes accurate reports, CNC files, and material interchange files for shop and field activities. All data is directly exported from the BIM (Building Information Model) to ensure perfect coordination with fabrication drawings.

### Deliverables to our Clients include

- Advance Bill of Materials
- Anchor Bolt Layout & Details
- Erection / General Arrangement Drawings
- Shop & Part Drawings
- Weld Map Drawings
- NC Data & DXF files
- Material List Reports
- Bolt List
- Bill of Quantities Reports
- Bought Out Lists
- KISS / Fabtrol Reports
- IFC (.ifc/.stp) files for integration
- 3D DWG model

The detail drawings are linked to the model, ensuring 100% steel member connectivity. However, the output quality relies on input quality. The true potential of these programs emerges when combined with our skilled structural steel detailers' extensive experience. Through regular inter-office training programs and webinars, we enhance the team's understanding of steel detailing standards and optimize tool usage, leading to improved quality and productivity.



# Structural Engineering

## **Structural Frame Design:**

Swara's focus in structural engineering is to develop functionally robust and stable structures capable of withstanding both external and internal forces. Our approach involves methodical analysis and comprehensive design ideas that address all functional requirements as per the code.

## **Connection Design:**

At Swara, we prioritize designing connections & miscellaneous items with fabricators and erectors in mind. We collaborate closely with all stakeholders to ensure economical, safe, and code-compliant connections. Our engineers have license of all 50 states of United States, possess extensive knowledge of steel connection designing, providing top-quality connection design services.

## **Leaders in Connection Design:**

Swara strives to lead in connection & miscellaneous design, offering economical and quick turnaround solutions. Our structural steel connection calculations are clear and well-organized, ensuring everyone involved in the project can easily understand and follow them.



# Industrial Detailing

Our specialization lies in detailing various industrial projects, where we excel in interpreting design intent drawings and converting them into shop drawings. These detailed shop drawings facilitate the fabricators in the fabrication of individual members and their subsequent erection.

## Some of the industrial projects we have expertise in include:

- Piperack structures
- Stair towers
- Warehouse structures
- Walkway platforms
- Machinery support structures
- Power generation buildings
- Oil and gas pipeline support structures
- Circular platforms

With our experience and skillset, we ensure precise and efficient execution of these industrial projects to meet the highest standards.



## Commercial Sector Detailing

Swara Detailing Services offers comprehensive and accurate steel detailing for various types of commercial steel structures, including high-rises, residential, school buildings, office buildings, industrial/technological buildings, and PEB structures. Our expertise covers the preparation of complete fabrication drawings for all steel elements shown and sized in the Design Drawings.

Utilizing advanced 3D structural steel detailing programs, our staff can virtually pre-construct the steel frame, enabling a 360-degree view of complicated framing connections and potential conflicts. This approach ensures proper and safe installation of the structural steel. We also utilize our internally developed custom components within the 3D model to detail most architectural steel items.

### Swara has expertise in structures like:

- Churches
- Office buildings
- High rise buildings
- Parking structures
- Sky walks
- Hospital buildings
- School buildings



## Misc Steel Detailing

Swara Detailing Services offers fully coordinated Miscellaneous steel detailing services. This aspect of detailing requires significant self-decision making, particularly in the modeling phase, and relies on strong technical knowledge.

Our highly experienced team excels in delivering precise and efficient results using the best methods available.

**These items often have minimal design loads that do not impact the structural frame and typically include**

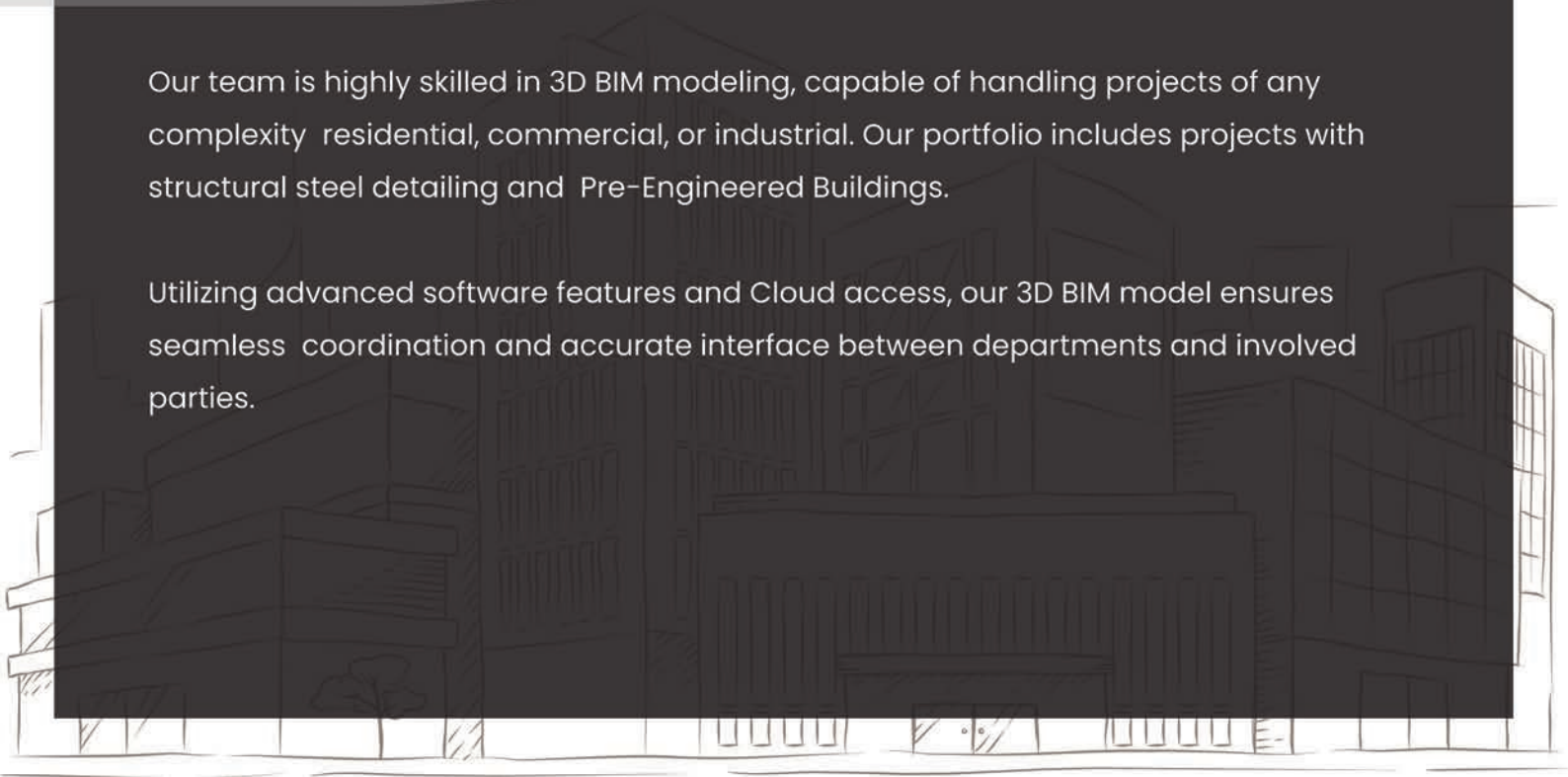
- Design & Detailing of metal stairs, including stringers, treads, handrails, and connections.
- Canopy structures
- Trench drain
- Balcony
- Fencing & Gates
- Trellis & Cabana
- Awning
- Garage Screening
- Sign post
- Trash Chute & Trash gate
- Bollards

# Structural Detailing using 3D Modelling Software

We employ a suite of software packages for efficient and tailored 3D modeling services. Our well trained team of experts excels in creating information rich models. All models undergo thorough checks by our experienced checkers before 2D drawing production begins.

Our team is highly skilled in 3D BIM modeling, capable of handling projects of any complexity residential, commercial, or industrial. Our portfolio includes projects with structural steel detailing and Pre-Engineered Buildings.

Utilizing advanced software features and Cloud access, our 3D BIM model ensures seamless coordination and accurate interface between departments and involved parties.



## STRUCTURAL STEEL TAKE OFF

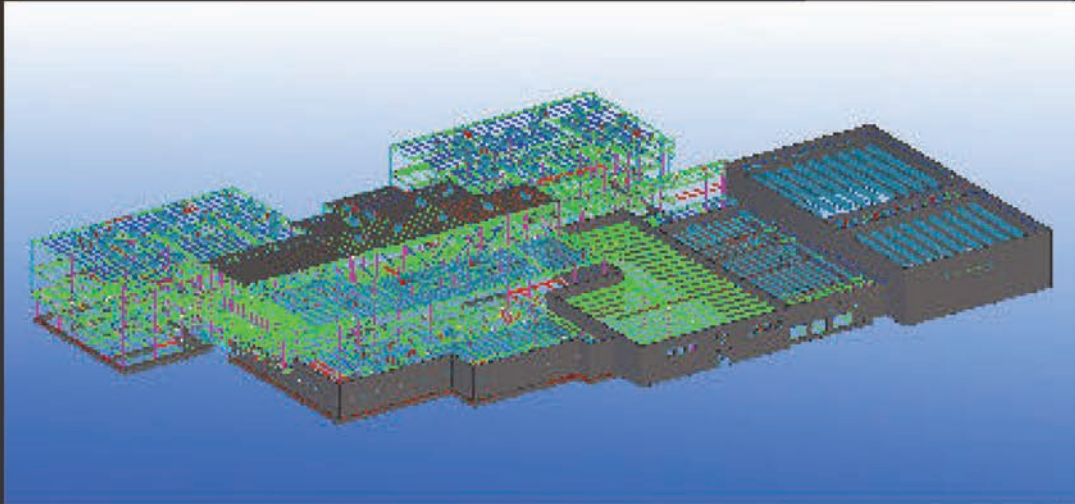
Sl No	Qty.	Profile	Grade	Length	Weight(lbs)	Total Weight(lbs)
1	2	C6X8.2	A36	3'-5 3/8"	33	66
2	2	C6X8.2	A36	4'-7 1/4"	45	90
3	1	HSS8X8X5/8	A500-GR.B	12'-5 5/16"	694	694
4	1	HSS8X8X5/8	A500-GR.B	12'-7 1/4"	703	703
5	1	HSS8X8X5/8	A500-GR.B	13'-6 5/8"	756	756
6	1	HSS8X8X5/8	A500-GR.B	30'-5 3/4"	1701	1701
7	1	HSS8X8X5/8	A500-GR.B	30'-7 5/16"	1708	1708
8	1	HSS8X8X5/8	A500-GR.B	39'-3 1/16"	2191	2191
9	1	L3-1/2X3-1/2X1/2	A36	0'-8 7/16"	8	8
10	1	L3-1/2X3-1/2X1/2	A36	4'-2 11/16"	47	47
11	1	L6X6X1/2	A36	2'-1 1/16"	41	41
12	2	L6X6X1/2	A36	23'-4"	457	914
13	4	W6X8.5	A992	4'-11 15/16"	43	172
14	3	W12X26	A992	22'-5"	584	1752
15	5	W12X26	A992	22'-6 7/8"	588	2940
16	2	W12X26	A992	22'-7 1/2"	589	1178
17	1	W12X45	A992	22'-5"	999	999
29	3	W12X58	A992	23'-4"	1350	4050
30	8	W12X65	A992	11'-3 7/8"	736	5888
31	24	W12X65	A992	22'-7 3/4"	1472	35328
32	6	W12X87	A992	11'-3 7/8"	986	5916
Total Weight of 101 members						<b>143397</b>

Team Swara is your one-stop solution for all structural estimating services. Our skilled estimators deliver detailed analyses of structural steel projects, providing accurate estimates with a comprehensive cost breakdown.

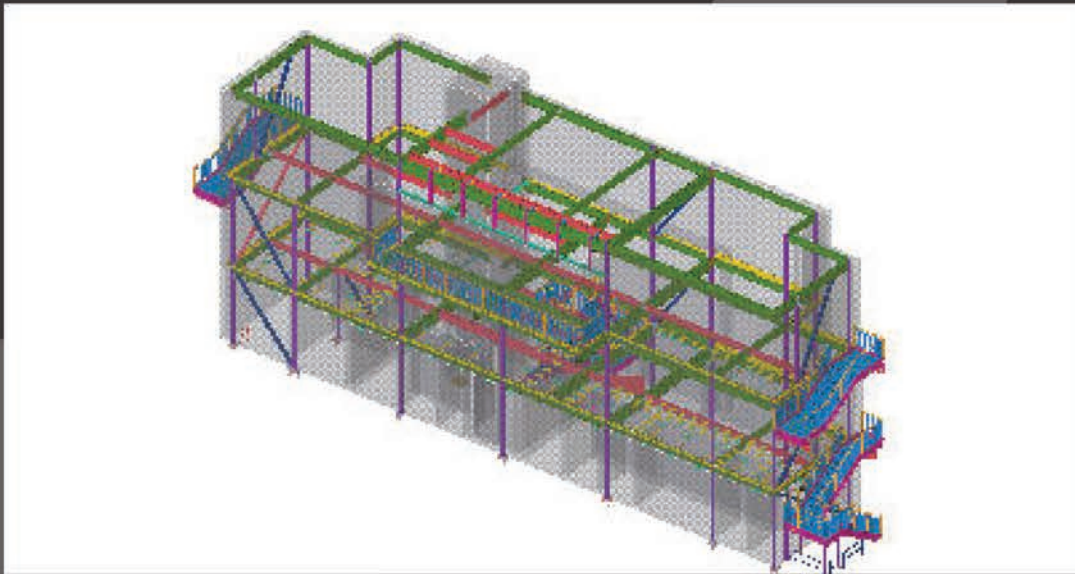
Our estimation service guarantees minimal project costs, reduced on-site storage space, and adherence to your time schedule. We provide precise quotes, including materials, accessories, and erection costs, ensuring satisfaction for our clients.



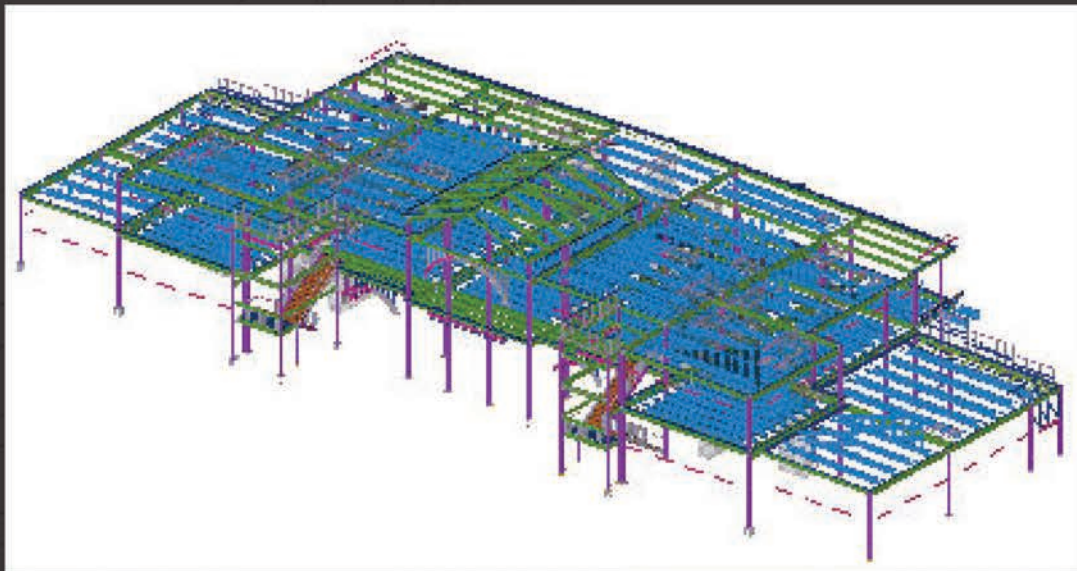
# Arlington ISD Carter Junior High Replacement School



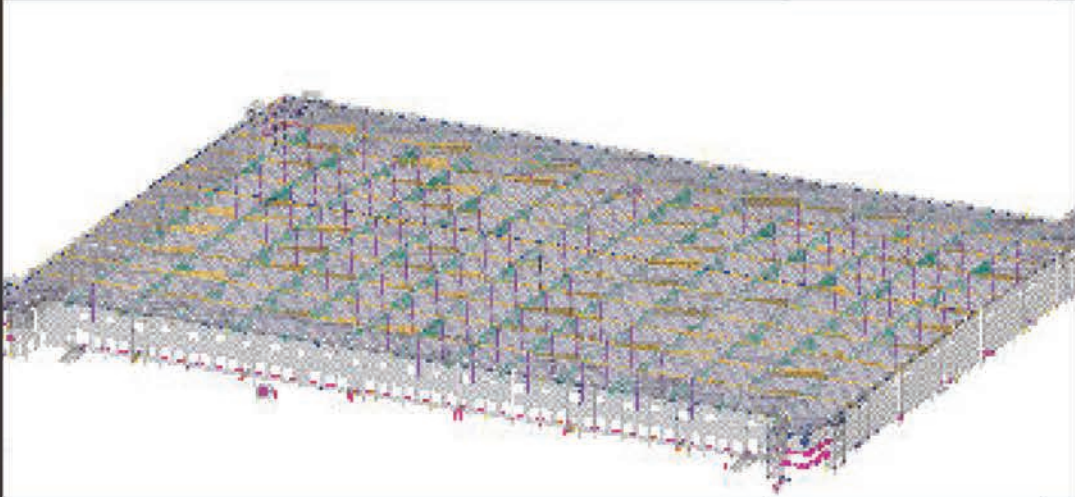
## Barton College App-1



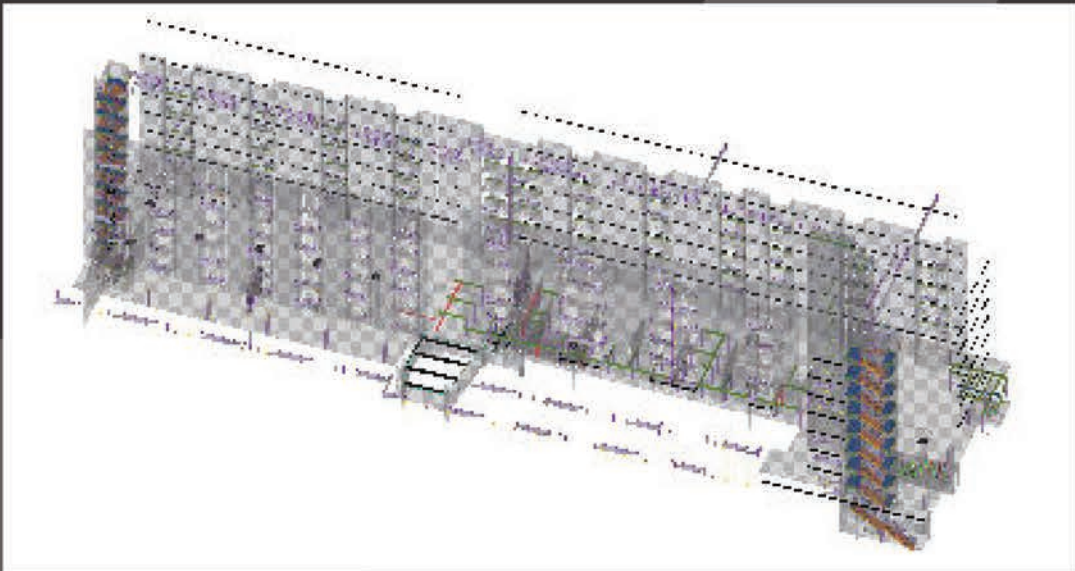
## Covenant Classical School



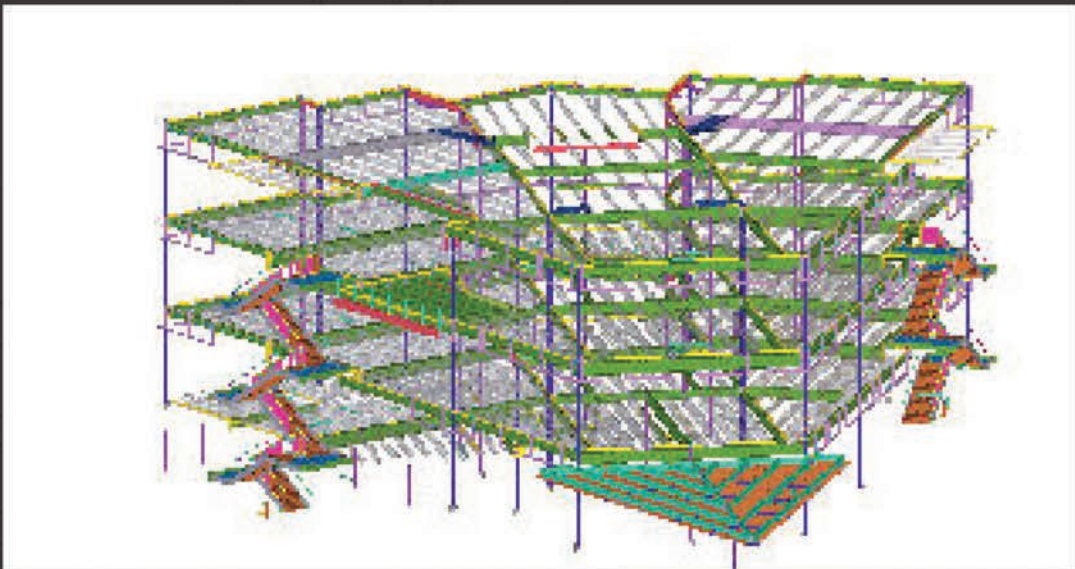
## Dan morton-1



## Jackson Street Apartments



## Sunbelt





## Contact Us:

Contact Swara Consulting Services Inc. to discuss your next project. Our dedicated team is ready to provide engineering expertise tailored to your needs. Reach out to us today:

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We look forward to collaborating with you to empower your projects with Engineering Excellence.