MOLDTEK

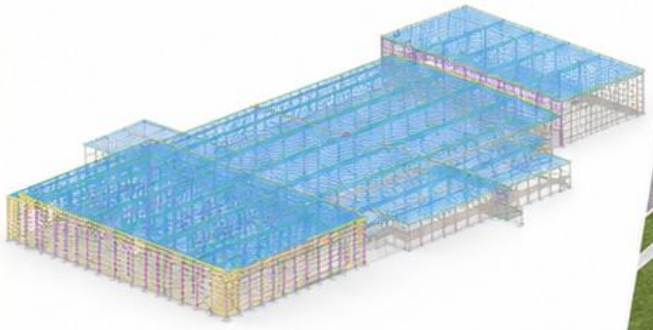
AJIN USA

Joon Georgia EV Plant

Industrial Steel Detailing Case Study

INDUSTRIAL | ROCKY RD, GA

A fast-track industrial steel detailing engagement involving plant-wide sequencing, panel embeds, multi-trade coordination, and schedule-driven delivery.



1,932	15	135	225
Tonnage	Weeks	Sequences	Erection Drawings

Moldtek Technologies Limited

FAST TRACK

PROJECT OVERVIEW

Built for high-volume industrial steel delivery

AJIN USA Joon Georgia EV Plant is a battery stamping facility located at 234 Bruce Yawn Blvd, Georgia. The facility spans 1,106 ft x 800 ft and includes Press and Office areas, requiring disciplined steel detailing, sequencing, and coordination across a large industrial footprint.

1,106 x 800 ft
Building Footprint

135
Sequences

225
Erection Drawings

15 Weeks
Schedule

PROJECT SNAPSHOT

- Battery stamping facility in Georgia
- Industrial facility with Press and Office areas
- Main steel and secondary steel included
- Large number of panel embeds to be detailed
- Coordination with Pre-cast, Panel, Joist, and Mechanical trades

FACILITY SEQUENCING

135 sequences across a large-format industrial plant

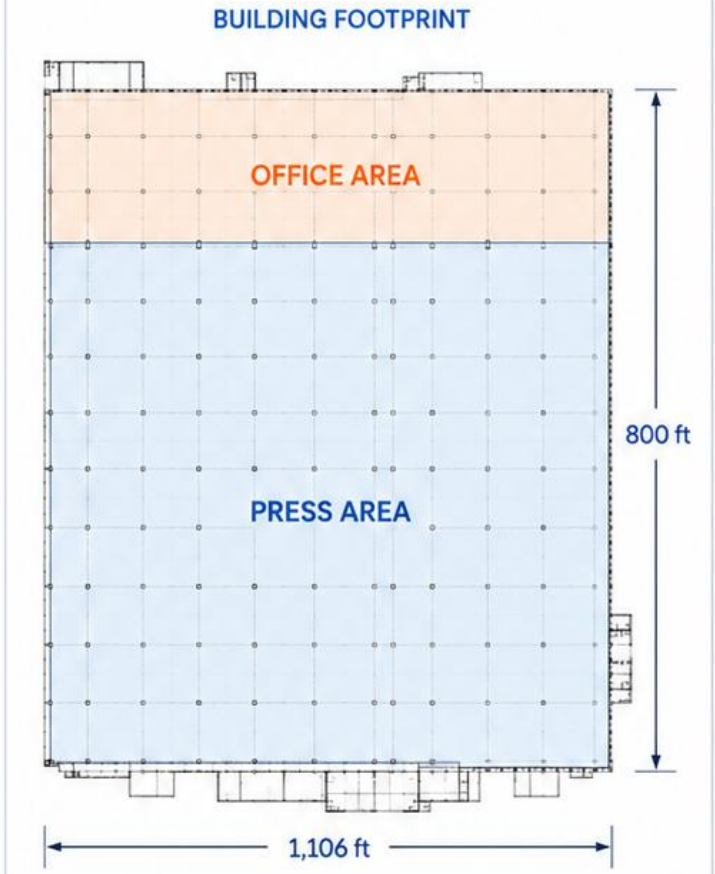
Structured sequence control supports progressive release and coordination

The facility was divided into defined detailing and erection sequences to manage the scale of the 1,106 ft x 800 ft industrial plant. This sequencing approach supported progressive review cycles and erection drawing output at scale.

135 sequences
Structured release control

225 erection drawings
High-volume drawing package

Press + Office areas
Distinct industrial work zones



Why the sequencing strategy matters

- Breaks a large industrial facility into manageable detailing packages.
- Improves visibility into fabrication and erection drawing progress.
- Supports coordinated review and release cycles.
- Helps streamline multi-trade issue resolution.

COORDINATION CHALLENGES

Managing steel interfaces across trades, embeds and production zones

The project required continuous coordination with multiple trades and systems, especially where steel detailing intersected with panel embeds, precast elements, joists, mechanical systems, and industrial facility requirements.

01

Panel embeds

Large quantity of panel embeds required careful detailing and integration.

02

Pre-cast + panel coordination

Trade conditions required close alignment with precast and panel teams.

03

Joist coordination

Joist package interfaces influenced sequencing and framing decisions.

04

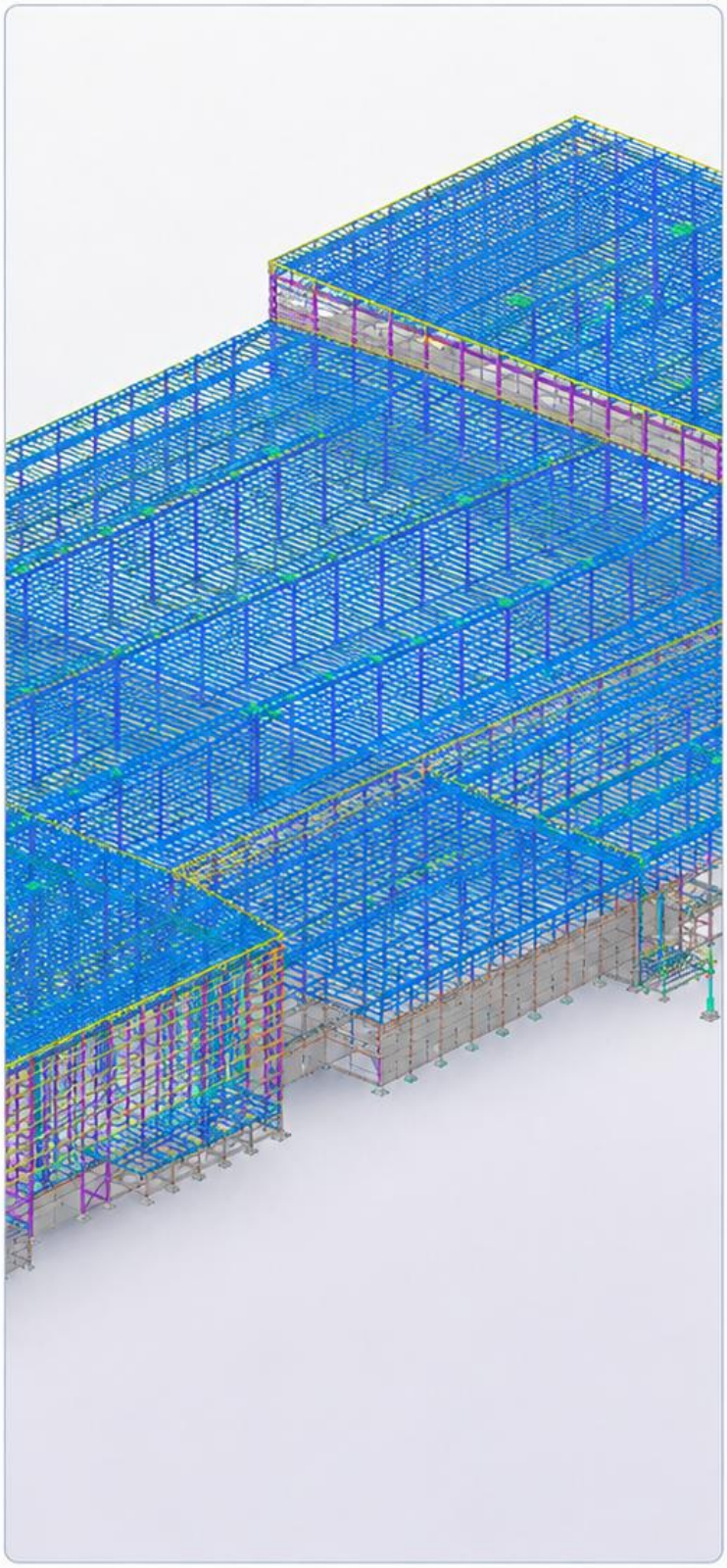
Mechanical interfaces

Mechanical routing and equipment requirements affected detailing coordination.

05

Drawing volume

High-volume erection drawings required structured QA/QC and release discipline.



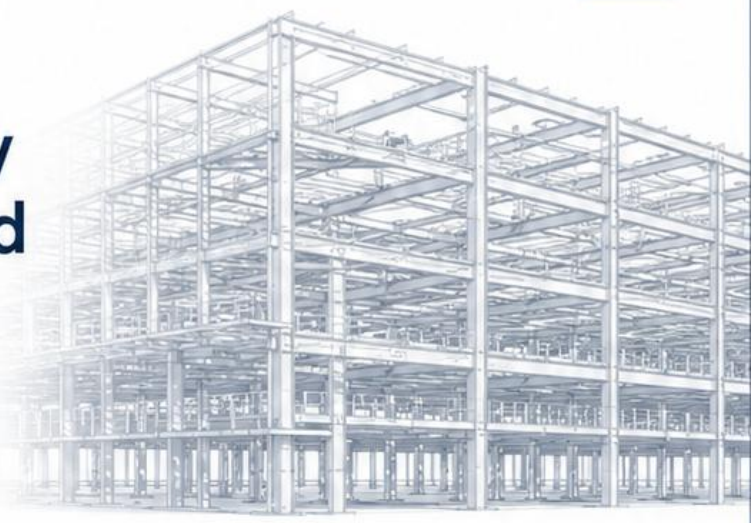
Detailing implication

The critical path involved fast-tracked development, panel embed detailing, trade coordination, drawing production, and release discipline across a compressed 15-week programme.

SCOPE OF WORK

Main steel, secondary steel and panel embed detailing

Moldtek supported steel detailing for this industrial facility with a scope covering main steel, secondary steel, and a large volume of panel embeds, while coordinating with multiple related trades.



1,932 tons of steel

135 sequences

225 erection drawings

15 weeks schedule

MAIN STEEL DETAILING

Detailing of primary framing elements to support the industrial facility structure.

SECONDARY STEEL DETAILING

Secondary framing, supports and miscellaneous members required for building function.

PANEL EMBEDS

Detailed embed packages to support panel and enclosure systems.

TRADE COORDINATION

Coordination with Pre-cast, Panel, Joist and Mechanical teams for constructability.

DELIVERY METHOD

01 CAPTURE PROJECT FRAME

Review intent, BIM models and inputs to establish the project frame.

02 SEQUENCE THE WORK

Apply sequencing logic and plan the steel detailing workflow.

03 DETAIL EMBEDS AND STEEL

Model and detail main steel, secondary steel and panel embeds.

04 COORDINATE INTERFACES

Coordinate with trades and resolve clashes and interface conditions.

05 RELEASE DRAWINGS

Quality-check and issue erection drawings and reports for construction.

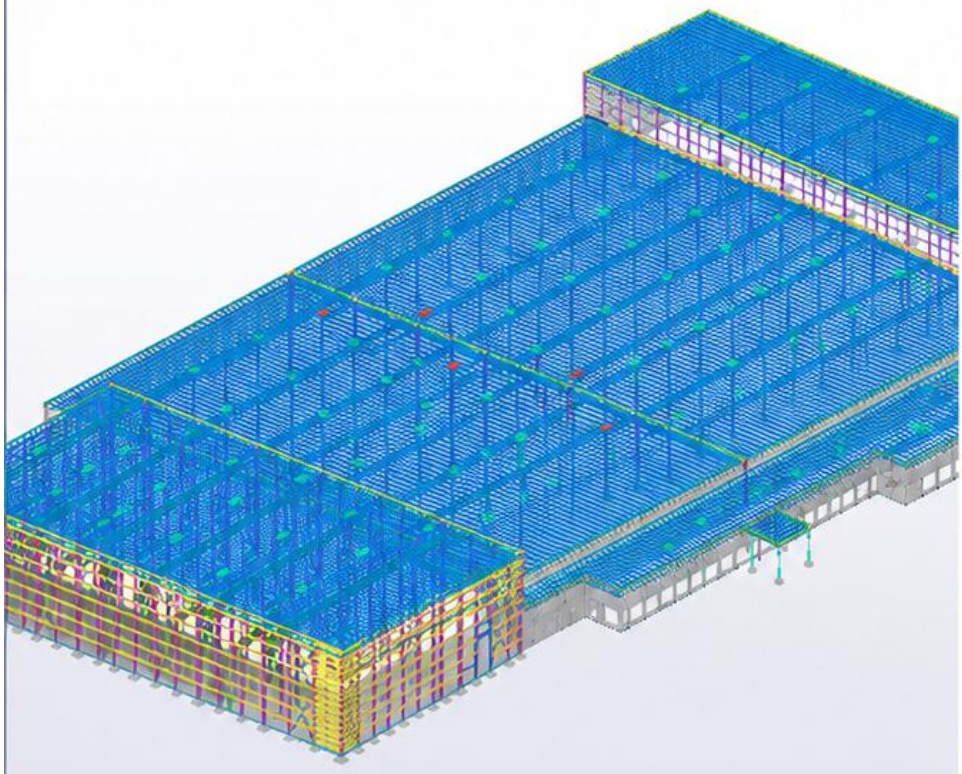
SCHEDULE LENS – 15 WEEK PROGRAMME

KICKOFF	ENGINEERING INPUTS	MODELING & DETAILING	COORDINATION & QA/QC	REVIEW & REVISIONS	RELEASE-READY OUTPUT
Week 0	Week 1–2	Week 3–8	Week 9–12	Week 13–14	Week 15

VALUE DELIVERED

Fast-track detailing clarity for industrial delivery

Model clarity and sequence discipline helped translate a large industrial steel package into coordinated deliverables that could support fabrication, erection planning, and multi-trade coordination.



Value delivered

- Clear breakdown of a high-volume industrial steel package.
- Improved visibility into 225 erection drawings and 135 sequences.
- Sound detailing support for main steel, secondary steel, and panel embeds.
- Improved coordination with Pre-cast, Panel, Joist and Mechanical trades.

Project takeaway

AJIN USA - Joon Georgia EV Plant reflects the type of fast-track industrial steel detailing assignment where sequence control, embed coordination, and multi-trade collaboration support buildable outcomes and structured drawing release.

FOCUSED ON FAST TRACK RESULTS