

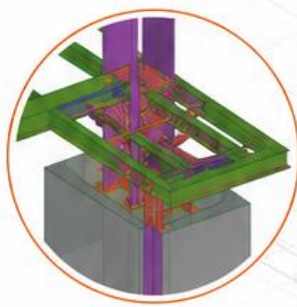
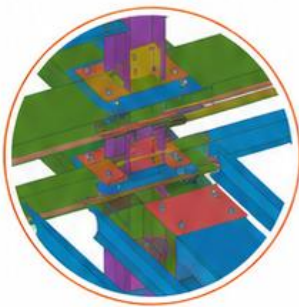
Amazon North Andover

Fulfillment Center

Industrial Steel Detailing Case Study

📍 WAREHOUSE | NORTH ANDOVER, MA

A high-tonnage warehouse detailing engagement involving main steel, bracing arrangements, elevator guide rail post supports, dock leveler embeds, galvanized canopies, roof platforms, opening frames, handrails, girt structures, and multi-trade coordination across an aggressive delivery schedule.



17,000
Tonnage



16
Weeks



26-30
Team Members

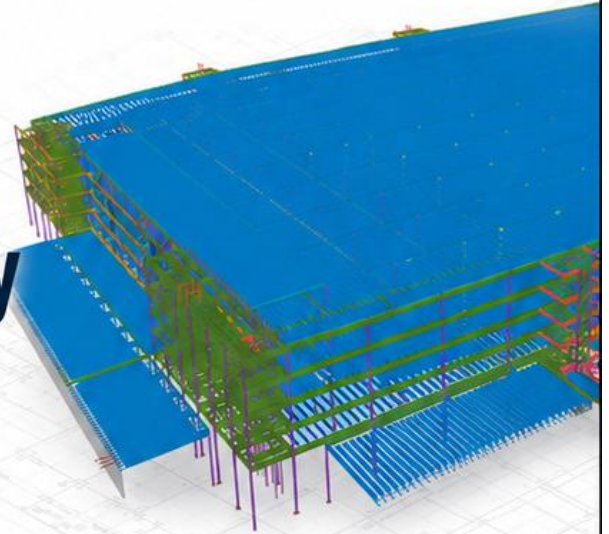


Main Steel + Misc
Core Scope

PROJECT OVERVIEW

Built for high-volume warehouse steel delivery

Amazon North Andover Fulfillment Center is a large warehouse steel detailing assignment in North Andover, Massachusetts. The scope included main steel, bracing arrangements, elevator guide rail post supports, dock leveler embeds, canopies, roof platforms, opening frames, handrails, girt structures, and close coordination across multiple trades within a compressed 16-week schedule.



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Warehouse + Misc
Scope

PROJECT SNAPSHOT

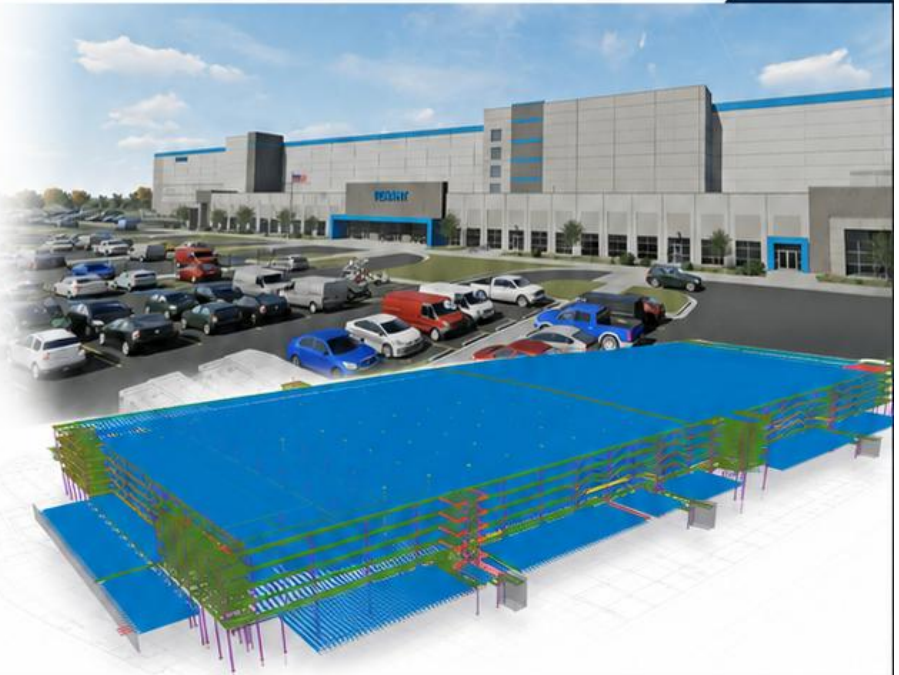
- Warehouse fulfillment center in North Andover, MA
- Main steel and bracing in scope
- Dock leveler embeds and elevator rail supports included
- Canopies, roof platforms, handrails and girt structures covered
- Multi-trade coordination with joist, panel, mechanical and precast teams



SCOPE OF WORK

Main steel, bracing, embeds and access steel detailing

Moldtek supported detailing across the core warehouse steel frame, bracing systems, elevator guide rail post supports, dock leveler embeds, galvanized canopies, roof platforms, slab and rooftop opening frames, handrails, and girt-related support structures.



17,000
tons of steel



16
week schedule



opening frames
+ embeds



cross-trade
coordination



Main steel detailing

Complete 3D modeling and shop drawings for the primary warehouse steel frame.



Bracing arrangements

Detailing of roof and wall bracing systems for stability and load transfer.



Dock leveler embeds

Accurate embed detailing for dock equipment and levelers.



Canopies + roof platforms

Galvanized canopies, roof platforms and access steel with handrail support.



Openings, handrails + girt steel

Opening frames, slab openings, handrails and girt-related support structures.

DELIVERY METHOD

1



Capture project frame

Review IFCs, drawings and specifications to establish scope.

2



Plan detailing packages

Define deliverables, LOD, schedules and responsibilities.

3



Detail steel + embeds

Build 3D model and produce shop drawings and BOMs.

4



Coordinate interfaces

Cross-trade clash coordination and resolution.

5



Release drawings

QC/QA and issue IFC, shop drawings and reports.

SCHEDULE LENS - 16 WEEK PROGRAMME



Kickoff
Week 0



Engineering Inputs
Weeks 1-2



Modeling & Detailing
Weeks 3-8



Coordination & QA/QC
Weeks 9-12



Review & Revisions
Weeks 13-14



Release-ready Output
Weeks 15-16

COORDINATION CHALLENGES

Managing aggressive warehouse interfaces across trades and support systems

The project demanded close coordination across large member sizes, multiple related trades, and several support packages, particularly where structural steel detailing intersected with joist framing, panel and precast requirements, mechanical openings, and embedded support components.

01

Large columns and beams

Coordination of heavy W-shapes and plate girders with wide flange beams and braced frames.

02

Joist, panel and precast coordination

Alignment of joists, roof deck, wall panels, and precast elements with steel framing.

03

Elevator guide rail post supports

Detailed modeling of guide rail post supports including plates, clips, and embed coordination.

04

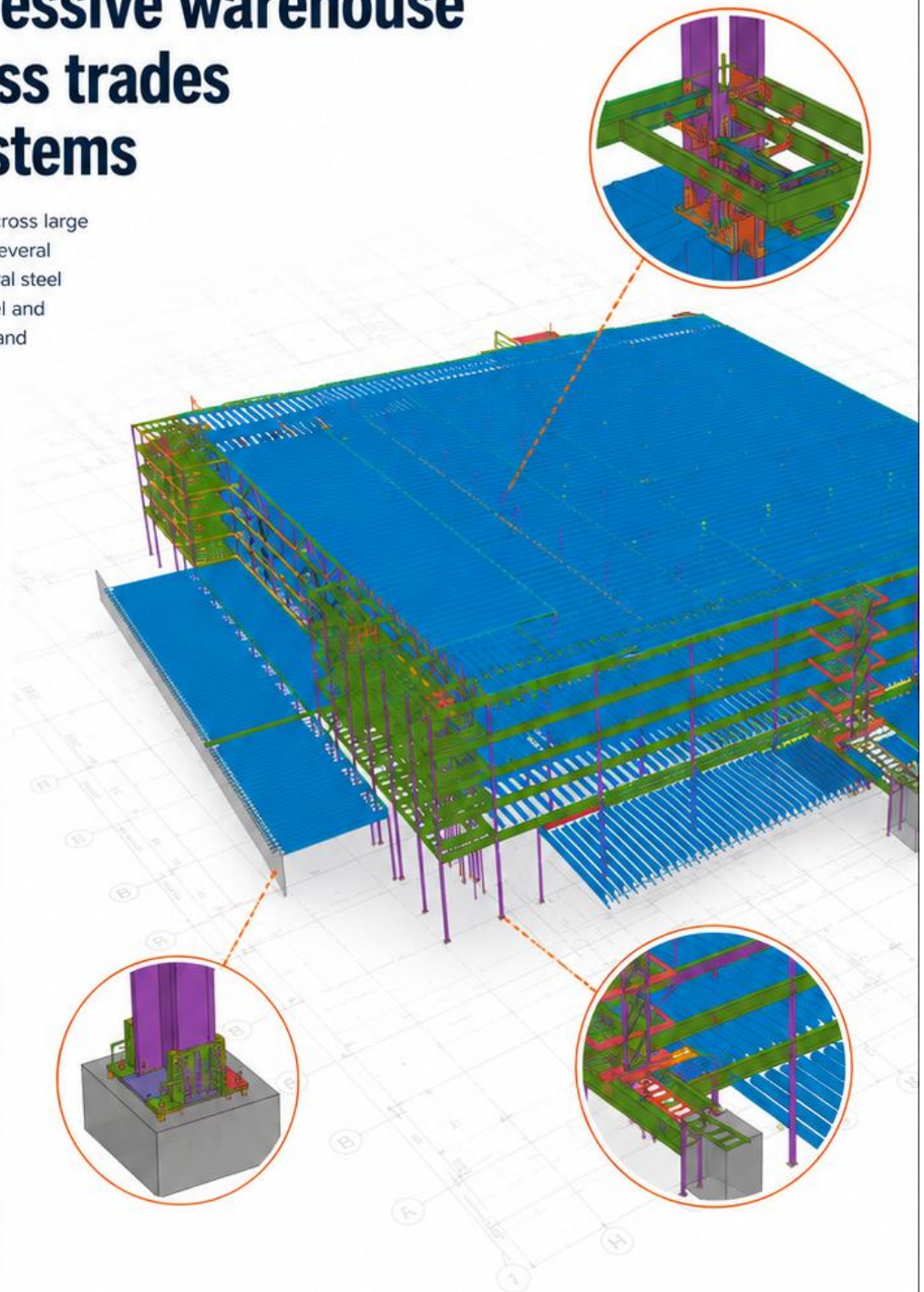
Dock leveler embeds and opening frames

Accurate embeds, opening frames, and support angles for dock equipment and MEP trades.

05

Aggressive 16-week schedule and drawing control

High-volume deliverables with strict milestones, RFIs, and revision management.

**Detailing implication**

The critical path involved high-volume steel detailing, interface management, open item follow-up, and disciplined drawing release across an accelerated warehouse programme.

MOLDTEK

VALUE DELIVERED

Warehouse detailing control for a fast-moving fulfillment center build.

Scope clarity, interface coordination, and schedule discipline helped convert a complex warehouse steel package into buildable deliverables that supported timely release and multi-trade alignment.



Value delivered



Clear breakdown of a **17,000-ton** warehouse steel package



Support for main steel, misc steel, embeds and opening frames



Better control over bracing, canopies, roof platforms and support conditions



Strong follow-up for RFIs, coordination items and drawing release



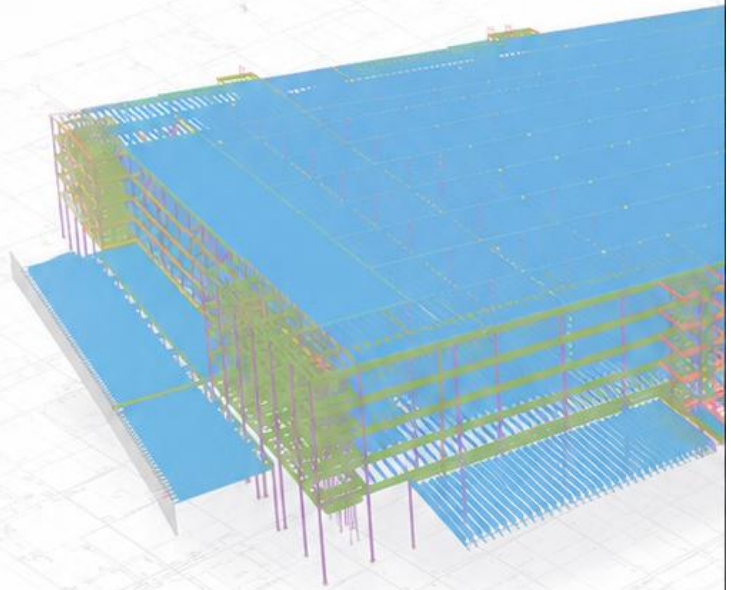
Project takeaway

Amazon North Andover Fulfillment Center reflects Moldtek's ability to support high-volume warehouse steel detailing assignments through scope control, interface management, schedule awareness, and disciplined release planning.

DELIVERY FRAMEWORK

Fast-track detailing support across a 16-week programme.

This warehouse package required disciplined release planning to support a high-tonnage steel scope within a short programme. The workflow balanced core steel detailing, embed packages, opening frames, misc steel requirements, and coordination review cycles.



17,000
Tonnage



16
Weeks



26-30
Team Members



Main Steel + Misc
Core Scope



Main steel

- Primary & secondary steel framing
- Bracing & lateral system
- Beam & column connections
- Erection-ready models



Embeds + supports

- Elevator guide rail posts
- Dock leveler embeds
- Mechanical & MEP supports
- Baseplates & anchor coordination



Canopies + platforms

- Galvanized canopies
- Work platforms
- Access structures
- Bracing & connections



Handrails + girt structures

- Handrails & guardrails
- Girt & strut systems
- Opening frame supports
- Roof & wall coordination

DELIVERY METHOD



Capture
project frame



Sequence
the work



Detail major
packages



Coordinate
interfaces



Release
drawings

SCHEDULE LENS - 16 WEEK PROGRAMME



Kickoff

Week 0



Inputs

Weeks 1-2



Main modeling

Weeks 3-6



Detailing &
coordination
Weeks 7-10



QA/QC +
revisions
Weeks 11-14



Release-ready
output
Weeks 15-16