Resume

Pavel Olegovich Koldunov, born 13.07.1993.
BIM Coordinator

Contacts:

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Education:

Higher education – Voronezh State University of Architecture and Civil Engineering, 2011–2017
Faculty – Civil Engineering, Construction of Unique Buildings and Structures
Specialization – Civil Engineer

Work Experience:

August 2022 – April 2025

NPO Olimproekt, LLC "InzhStroyProject"

Position: Project Coordinator

- Preparing storage files for structural designers.

- Creating families, Dynamo scripts according to specifications, and C# plug-ins.

- Editing the structural template, cleaning up families and models, writing instructions.

- Managing the project and checking the model for clashes in Navisworks and for compliance with the BEP (BIM Execution Plan).

- Training and technical support for new employees, their certification.

- Delivering in-house seminars and a BIM academy for students.

January 2021 – July 2022

Hamina Group, LLC Project-36, https://hamingroup.ru/

Position: Structural Engineer / BIM Specialist

- Developing design and working documentation stages for reinforced-concrete structures in Revit.

- Performing calculations of individual elements of a monolithic building in LIRA-SAPR.

- Also responsible for: setting up the Revit template for the structural section, creating families and necessary Dynamo scripts, training and consulting staff of the structural and architectural departments, and developing instructions for working with the structural template.

November 2020 – December 2020
Agrotechholding Group, https://agrotehholding.ru/
Position: Structural Engineer

- Developing working documentation for reinforced-concrete structures.

September 2018 – October 2020

LLC "TS Profil-Group", http://ts-prof.ru/

Position: Design Engineer

- Designing steel structures for production.
- Developing project sections for buildings and structures made of light gauge steel frames (LGSF) and conventional structural steel, in accordance with the client's technical assignment.

Design workflow:

- Creating the analytical model in Revit + Robot + SCAD.
- Analyzing the frame and joints in Robot.
- Selecting and designing the foundation for the frame.
- Detailing the frame in Advance Steel.
- Detailing the foundation in Revit.
- Preparing tasks for metal-rolling production lines.
- Preparing the design report.

Additional responsibilities:

- Author's supervision.
- Ability to configure and maintain metal-rolling equipment.

Skills:
Advanced level

AutoCAD, Autodesk Revit, Revit API, Dynamo, Navisworks

Intermediate level

Autodesk Advance Steel, Autodesk Robot Structural Analysis, IronPython,

MS Word, MS Excel, MS Project, LIRA-SAPR 2021, VBA coding

Basic level

SCAD, Mathcad, Autodesk 3ds Max, PyTorch, C#

About Me:

I am developing as a BIM specialist; I understand the creation of BIM standards and the setup of a Common Data Environment.

I work with the Revit API in Python and C#, and I am proficient with Dynamo, writing scripts and plug-ins for automation.

PORTFOLIO

Plugins

Unification of rebar lengths

Rounds the lengths of the selected bars to a multiple. Works also with bent rods.

Pic. 1

Creating a FE diagram in a Revit model.

Builds a DirectShape in the model to view reinforcement results.
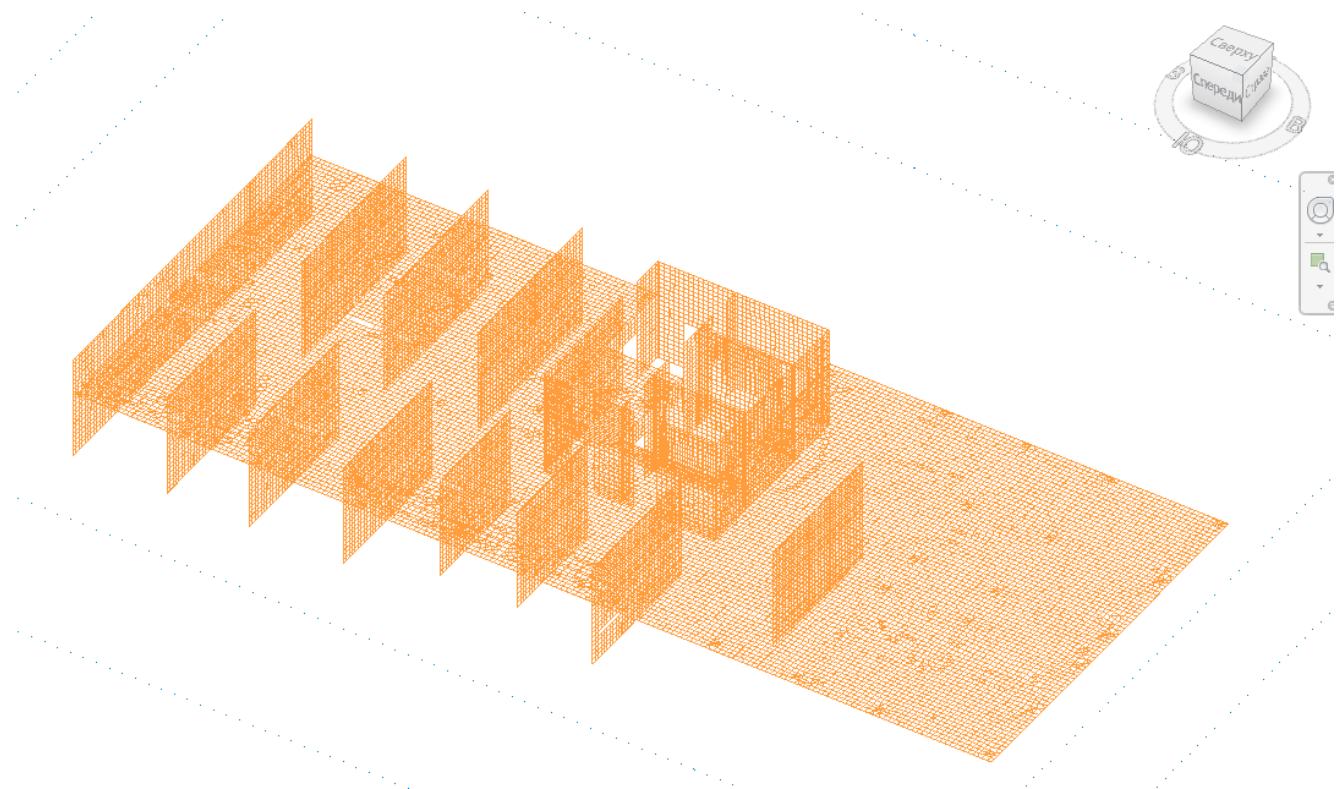
Pic. 2 The scheme is similar to the scheme in LIRA-SAPR

Viewing reinforcement results

Allows you to color FE in accordance with the user scale. (Similar to Lyra)
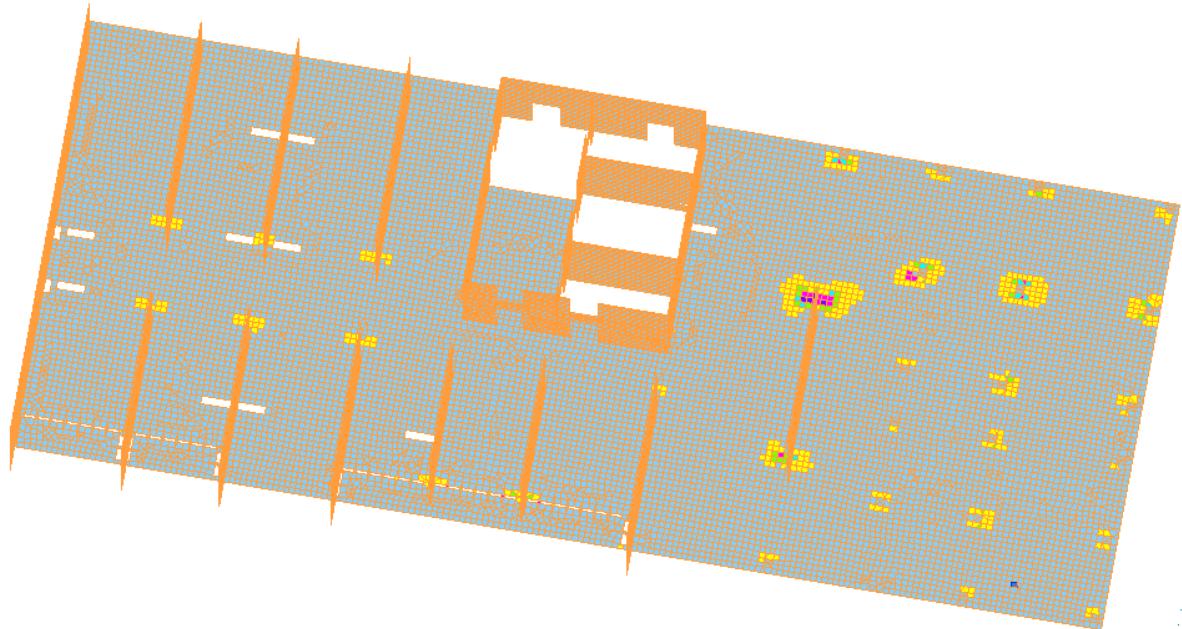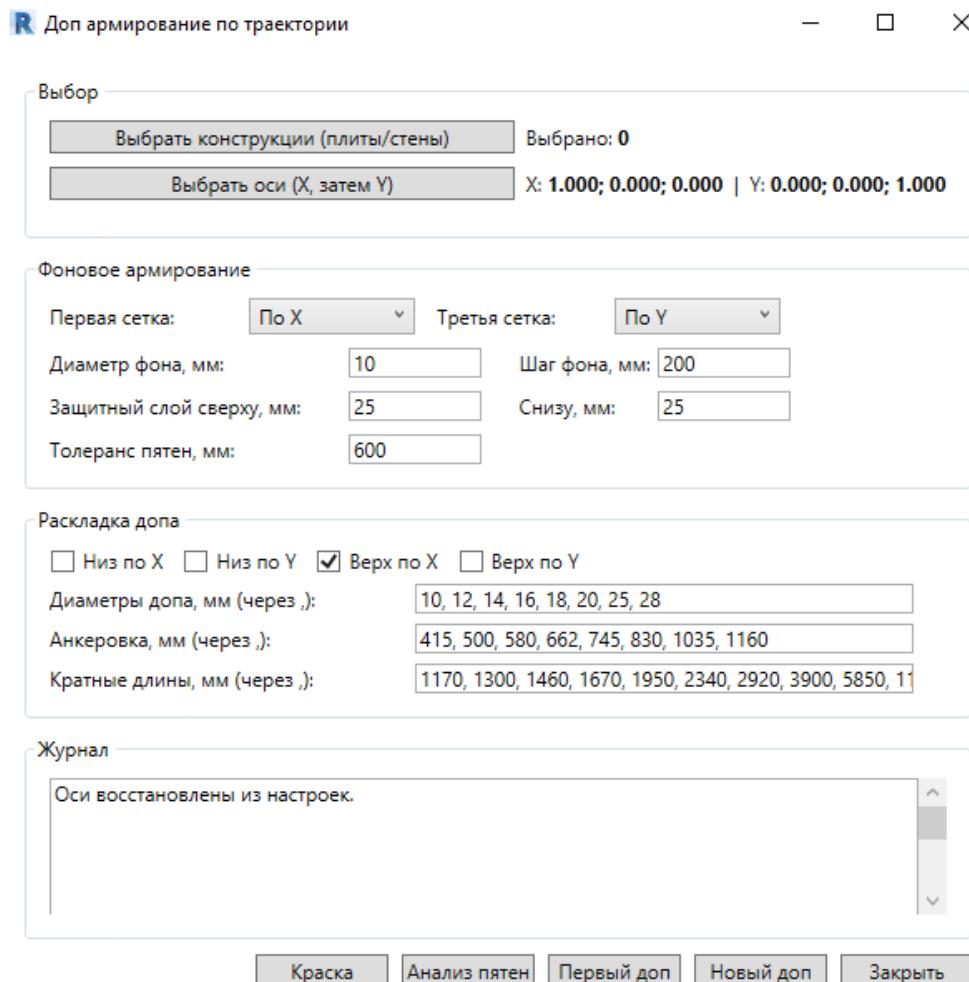
Pic. 3
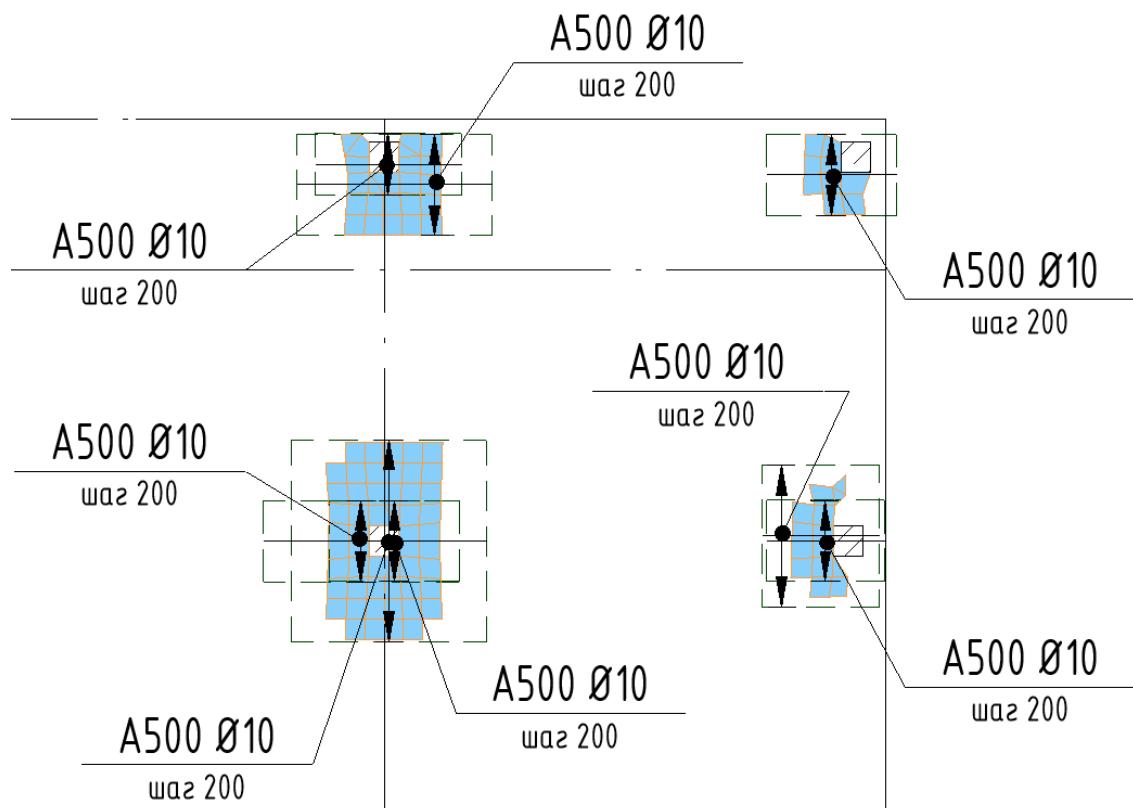
Pic. 4 fields according to AS4

Layout of additional reinforcement along isofields.

Covers zones with straight bars, taking into account the reinforcement utilization factor. It also repaints the FE taking into account the additional component and its utilization factor.


Pic. 5 Plugin window
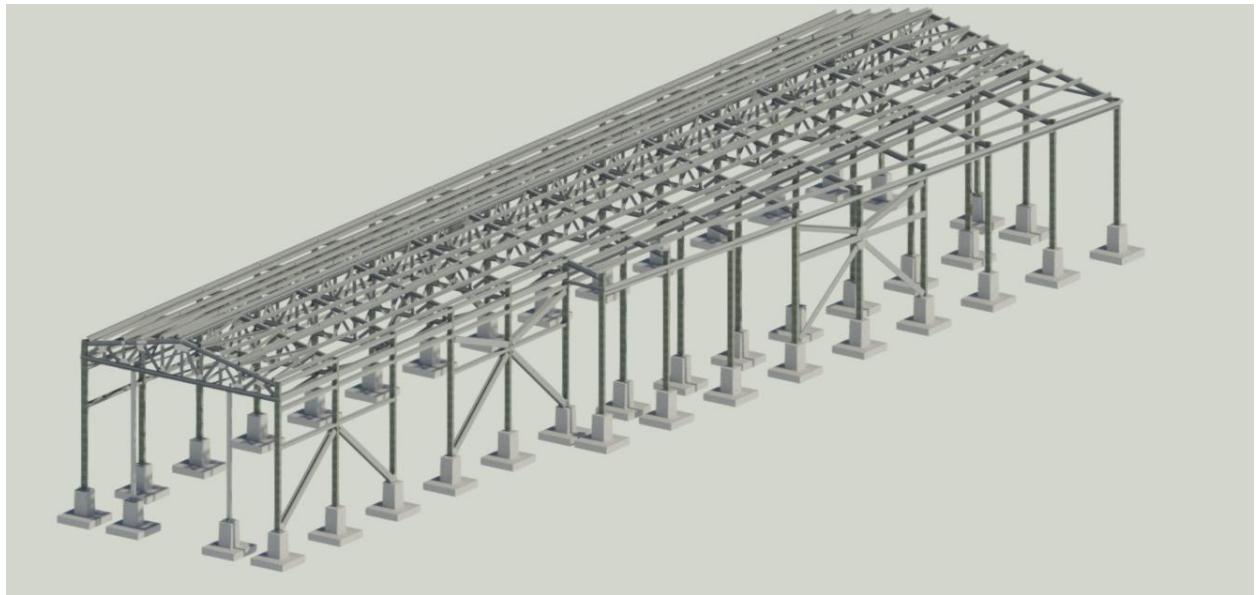
Pic. 6 Layout of additional equipment and repainting of covered FEs
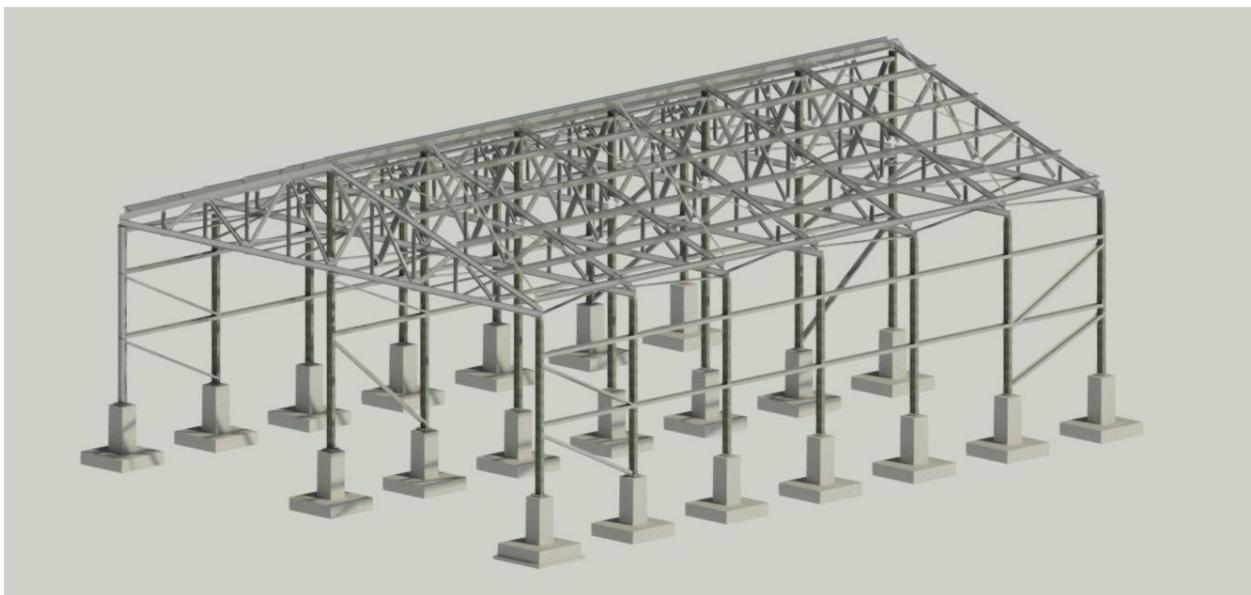
Dynamo scripts

I also created various scripts. For example, checking reinforcement for duplication of rods in the model, creating the boundaries of pit slopes by importing general plan points from Civil, creating a facade from pipes using an architectural model, framing holes with rods.
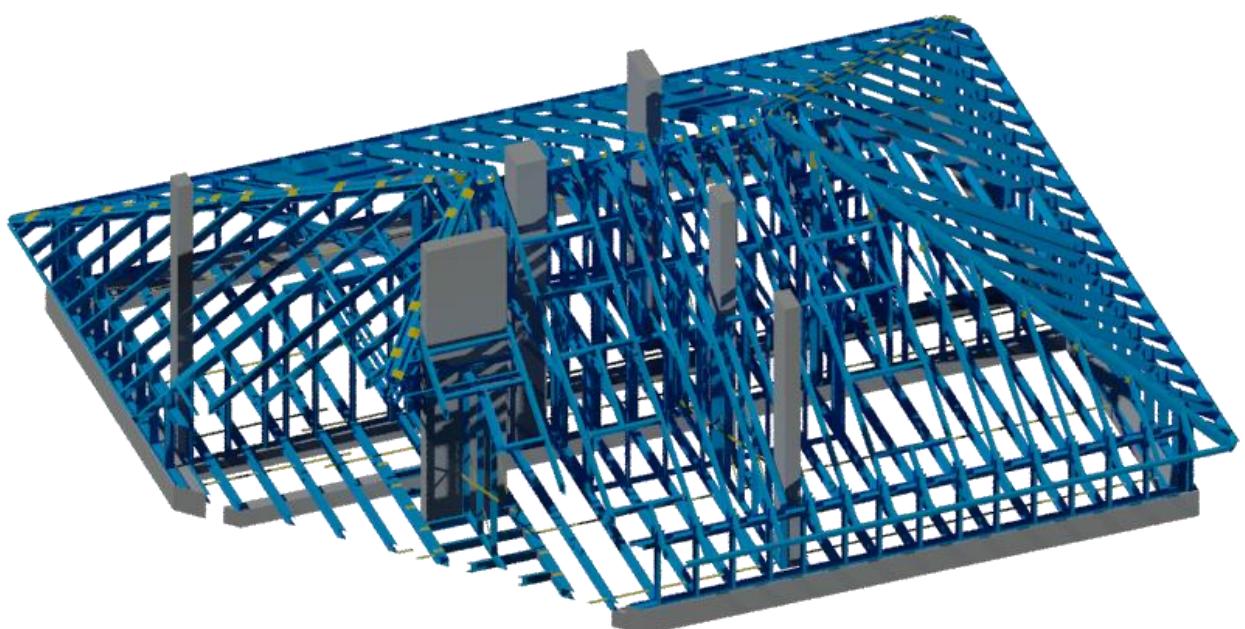
Structural projects
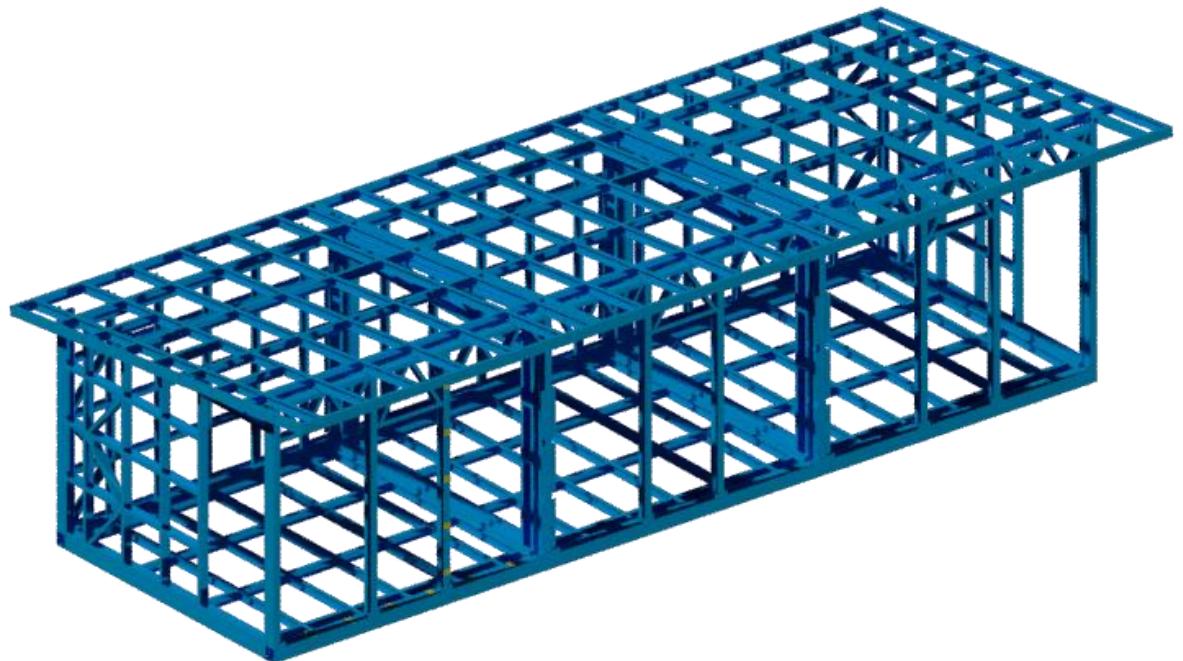

Pic 1. Warehouse area 570 m2
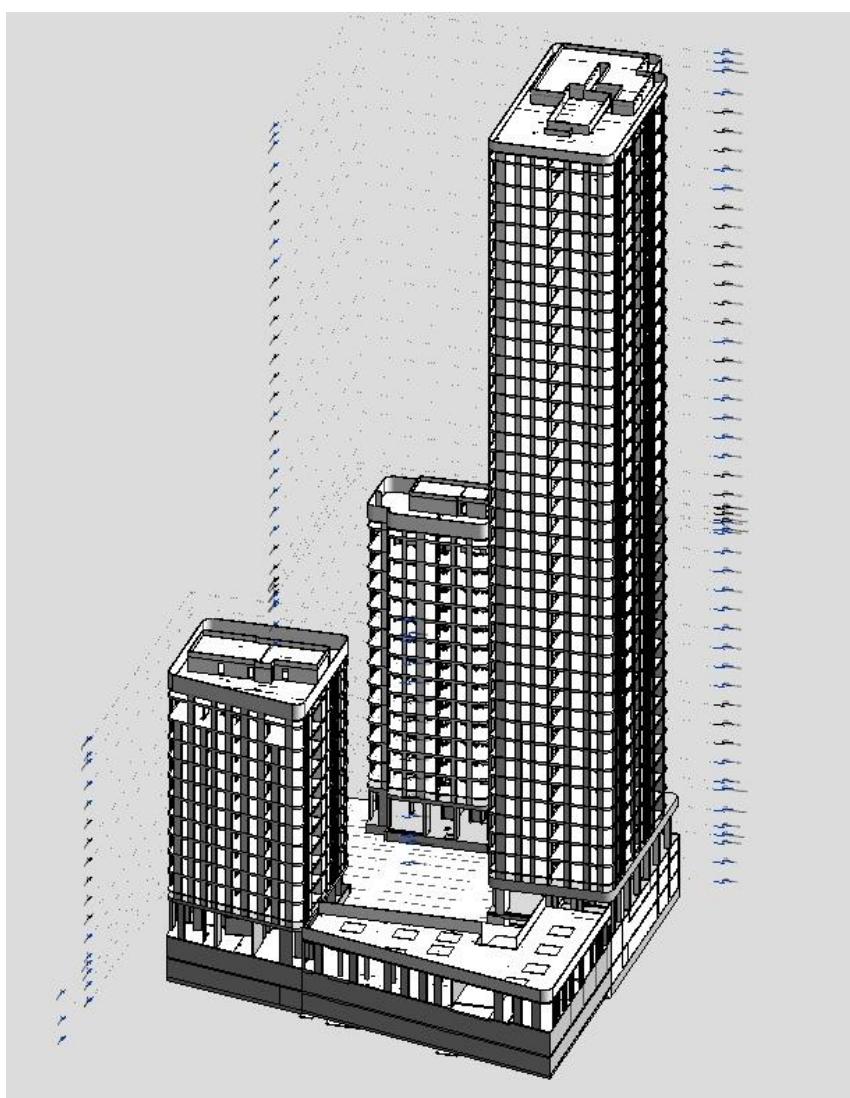
Рисунок 2. Warehouse area 432 m2

Pic 3. mansard

Pic 4. For the market

Pic 5. Residential complex