# About Designheed

Delivering breakthrough value to clients through the application of technology in Building Information Modeling (BIM)

| 2017 | 1000+ | 9 yrs | 150+ |
|---|---|---|---|
| Established | Projects | Experience | Design experts |

## SERVICES

- BIM Modeling
- Revit Family Creation
- BIM Advisory
- BIM Implementation
- BIM for Infrastructure and Civil
- Good For Construction Drawing
- Visualisation Service
- Interior Design

Residential

Commercial

Institutional

Healthcare

Educational

Industrial

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# We Are Global

We have supported architectural, landscape and interior design professionals, including directors and associates, across the Globe.

With our expertise we handle the complexities of detailed modeling and documentation, we enable them to focus entirely on their true expertise design.

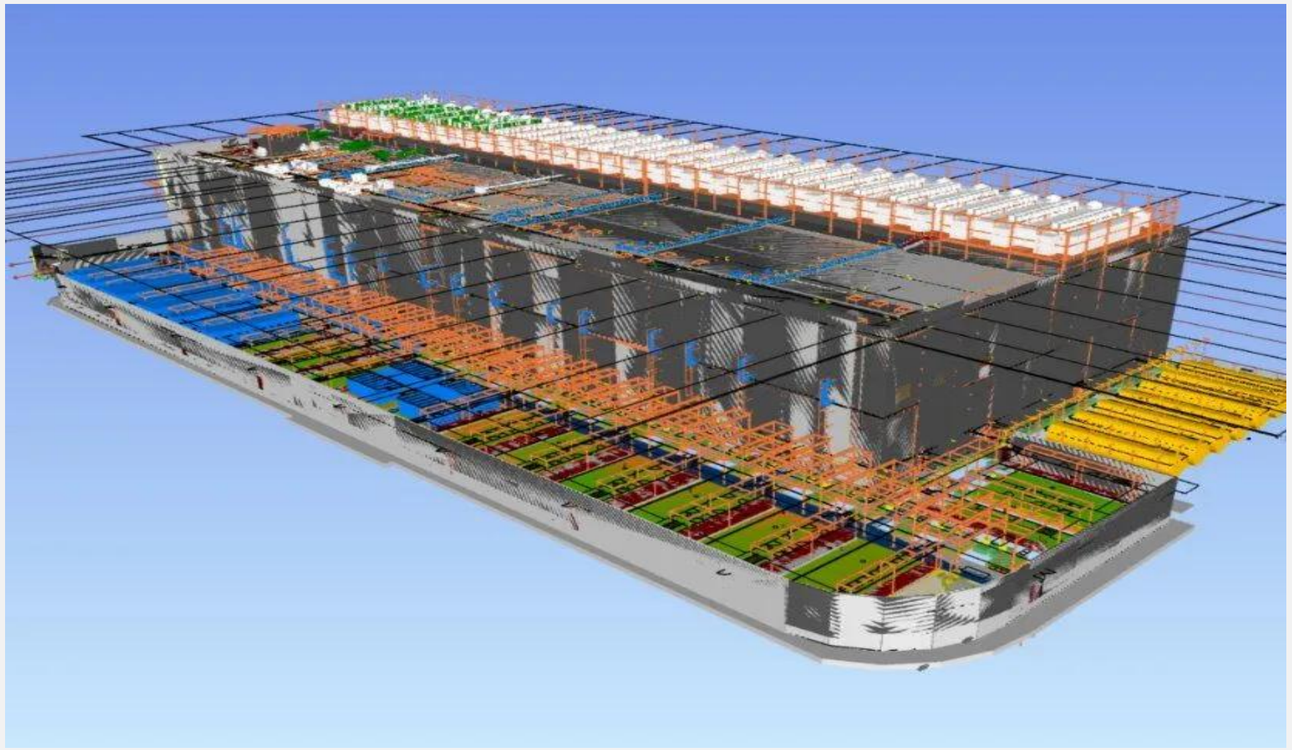
# International Project Portfolio ✈

Project
01

# Hyperscale Data Center Northern Virginia, USA | Mission Critical Infrastructure

**Scope:** Full MEPF BIM Modeling & Substation Coordination

- **LOD 350–400 Revit Development:** High-fidelity, fabrication-ready modeling aligned with ENR-ranked GC standards.
- **Critical Power & Cooling:** Modeling of substations, UPS rooms, generator yards, and CRAC/Chiller systems.
- **Server Infrastructure:** Precise coordination of 42U cabinets, hot/cold aisle containment, and busway tap-offs.
- **Integrated Coordination:** Integrated MEPF, Low Voltage, and Structural clash resolution using Navisworks.



| Feature | Detail Level |
| --- | --- |
| MEP Systems | Color-coded piping, ductwork with fittings, electrical busways |
| Server Infrastructure | 42U cabinets, hot/cold aisle containment, cable management |
| Cooling Systems | CRAC units, chillers, cooling towers, in-row cooling |
| Power Distribution | PDUs, UPS rooms, generator yards, busway tap-offs |
| Precision | Fabrication-ready geometry, shop-drawing accuracy |

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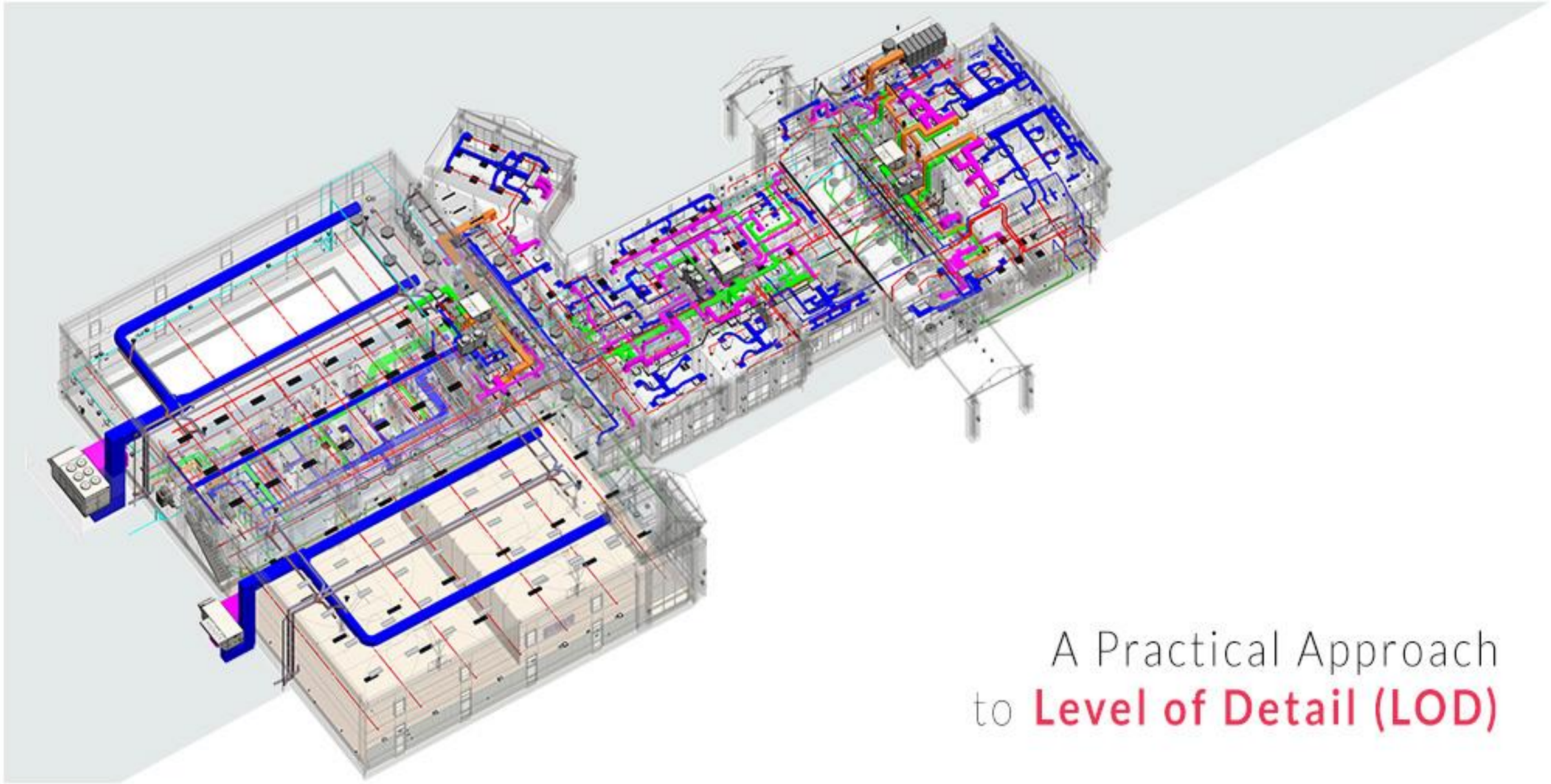
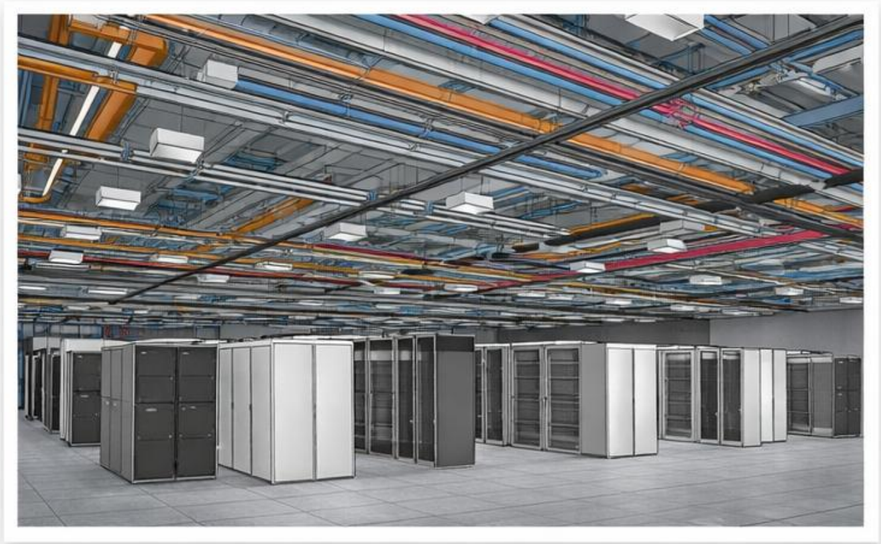
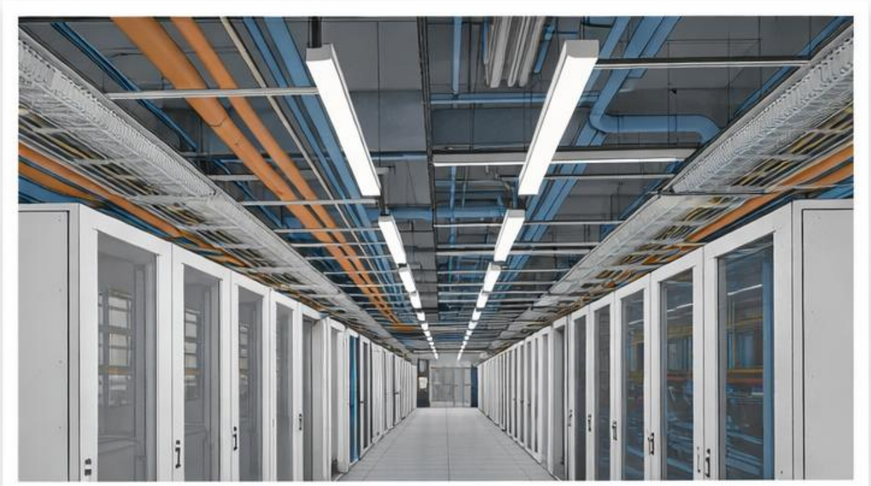


# A Practical Approach to Level of Detail (LOD)

***3D Revit Model** Showing Lighting & MEP in Data Center*



*Revit Coordination Model of Data Center Lighting*



***Revit Model** of Aisle Lighting in Data Center*

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Project 02

# Commercial Office Space, Richmond, USA Leading Design Consultant

**Scope:** Architectural & MEP BIM Modeling

**LOD 400 Revit Modeling:** High-detail architectural and MEP modeling featuring full clash resolution.

**Construction Documentation:** Delivery of comprehensive, permit-ready documentation sets.

**Coordination Efficiency:** Streamlined multidisciplinary workflows to significantly reduce RFIs.

**Software Stack:** Revit for modeling and Navisworks for integrated clash detection.

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Project
03

# K-12 School Campus, Texas, USA | Educational Project

**Scope:** Full MEPF BIM Modeling & Substation Coordination

**BIM Development:** Transitioned PDF designs to **LOD 350** Revit models.

**Coordination:** Full Architectural and Structural integration for a campus-wide layout.

**BOQ Extraction:** Precise material take-offs and **Bill of Quantities** generated from BIM data.

**Deliverables:** Construction-ready documentation sets for an **ENR-listed firm**.

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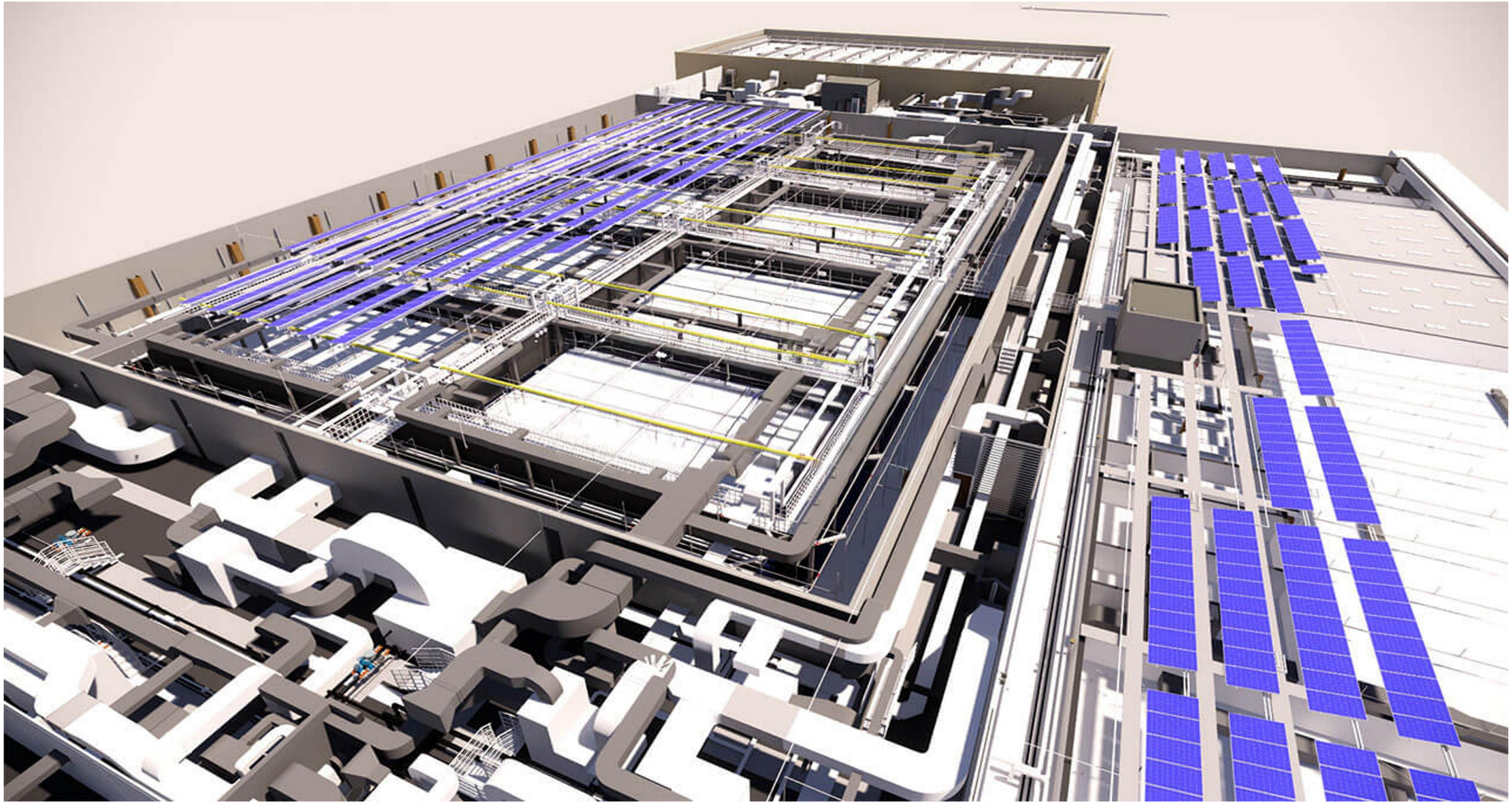

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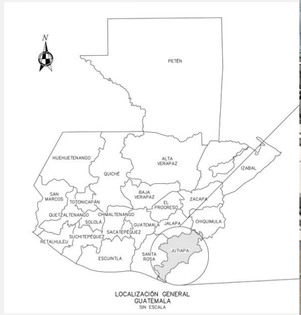
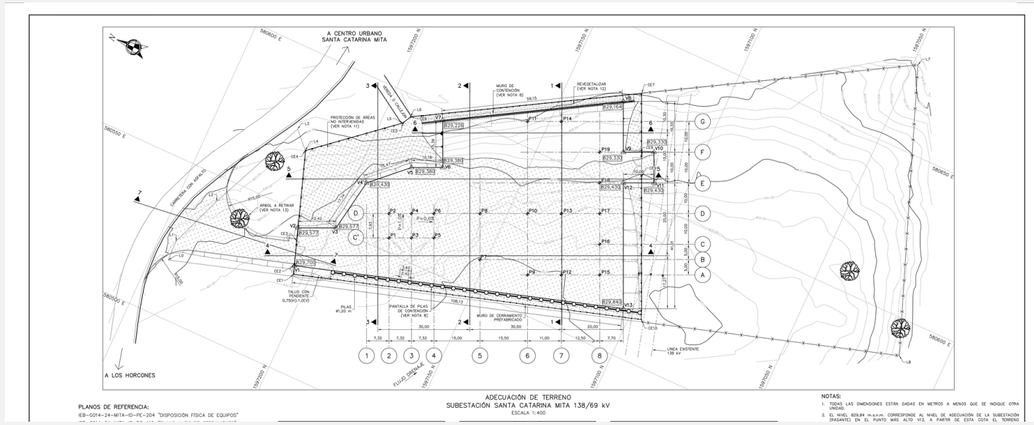
Project 04

# Structural BIM Modeling – Electrical Substations, Spain

Delivering clash-free, ISO-compliant BIM solutions for complex electrical infrastructure projects.



LOCALIZACIÓN GENERAL
GUATEMALA
SIN ESCALA




## Scope of work

- Clash-free structural model in Revit 2023 (LOD 350)
- Coordination of Structural, Architectural & MEP drawings
- Modeling of columns, beams, braces, walls, slabs, footings, openings, and embedded items
- Connection details, clash detection, and resolution (Revit / Navisworks)
- QA/QC per BIM standards
- Documentation: GA plans, sections, elevations, details, legends & notes

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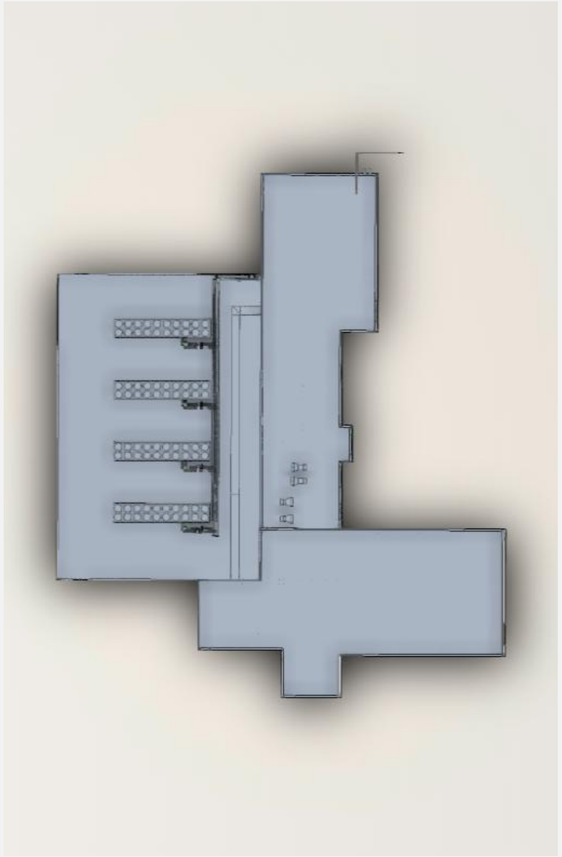
Project 05

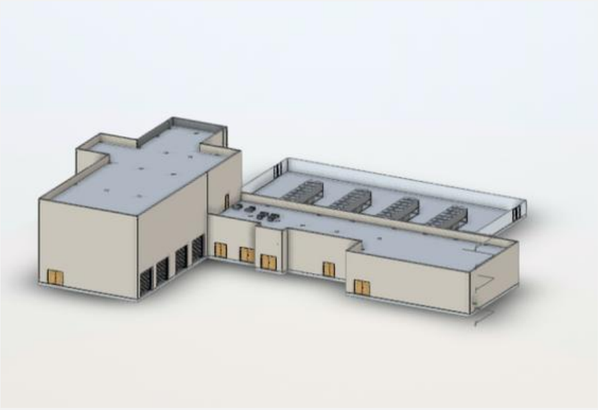
# ITL, Saudi Arabia

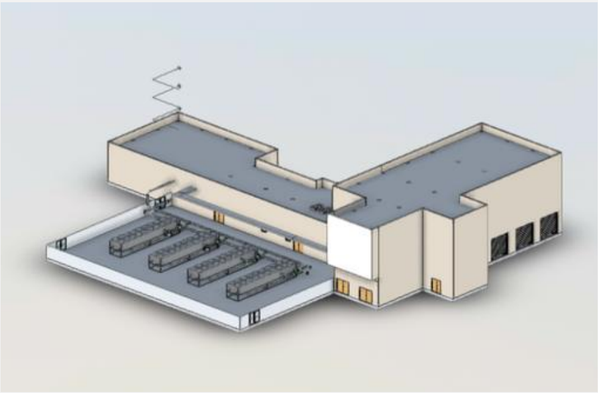
## (International Technology Limited)



### Technical Scope

| Category | Details |
|---|---|
| Software Used | Revit (modeling), Navisworks (coordination & clash detection) |
| Level of Detail | LOD 300 for construction-ready models |
| Deliverables | Plans, sections, elevations, 3D views, MEP layouts, schedules |
| Coordination | Integrated MEP, structural, and civil coordination |
| Standards | Adhered to client-specific BIM templates and naming conventions |
| Submission | Revit, Navisworks (NWD), and PDF formats |





Delivered 3D BIM Modeling for Architectural, Structural, and MEP systems for this international project.

Project
06

# Maatvoeren, Netherlands

Successfully delivered as-built 2D CAD drawings and LOD 300–350 Revit model of the building exterior, converting laser scan data into construction-ready documentation.

## Point Cloud to CAD & Revit Conversion

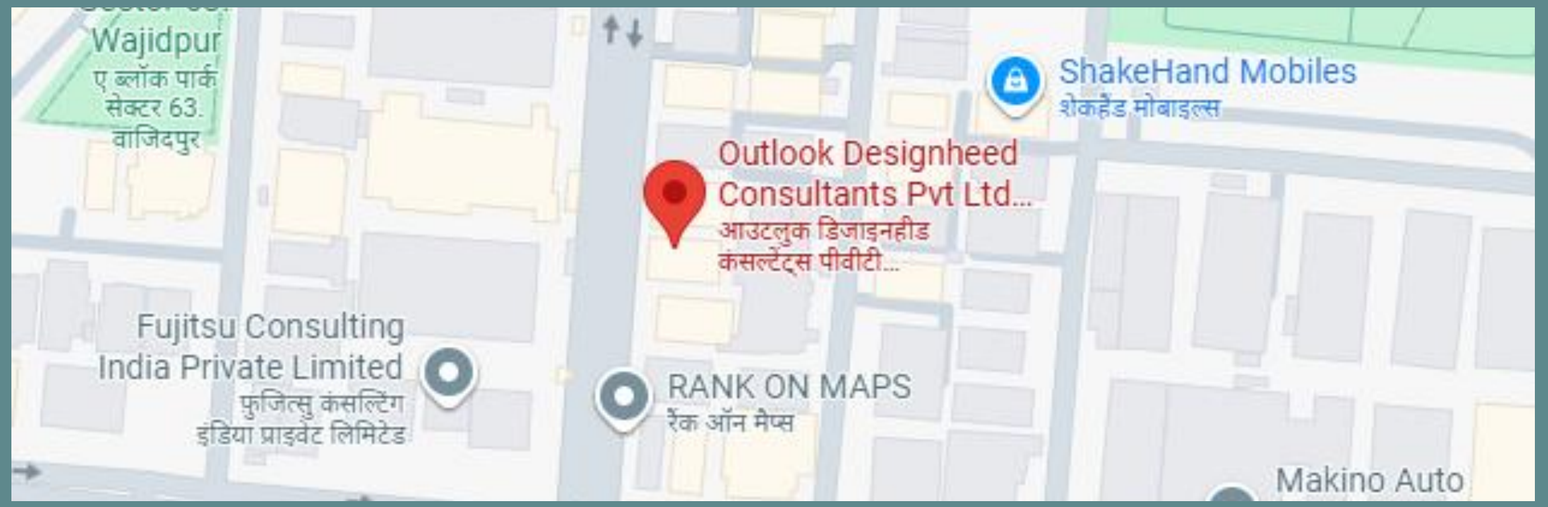
# Key Deliverables

**2D DWG Outputs:** Ground, First, Second floor plans, façade elevations, entrance staircase & cross-sections

**3D Revit Model:** Exterior shell, walls, doors, windows, roof; point cloud–based accurate geometry

**Coordination & Standards:** Integrated workflow using Revit, Navisworks, AutoCAD; clash-free outputs; adherence to US/Middle East/Canada BIM standards

**Documentation:** Construction-ready sheets, schedules, and PDFs




# Contact Us Here Now

## Our Goal Is Create Spaces That Are Not Only Beautiful, But Also Functional

Designheed, built on HLK Group’s 73-year legacy, transforms ideas into smart spaces.

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Thank You