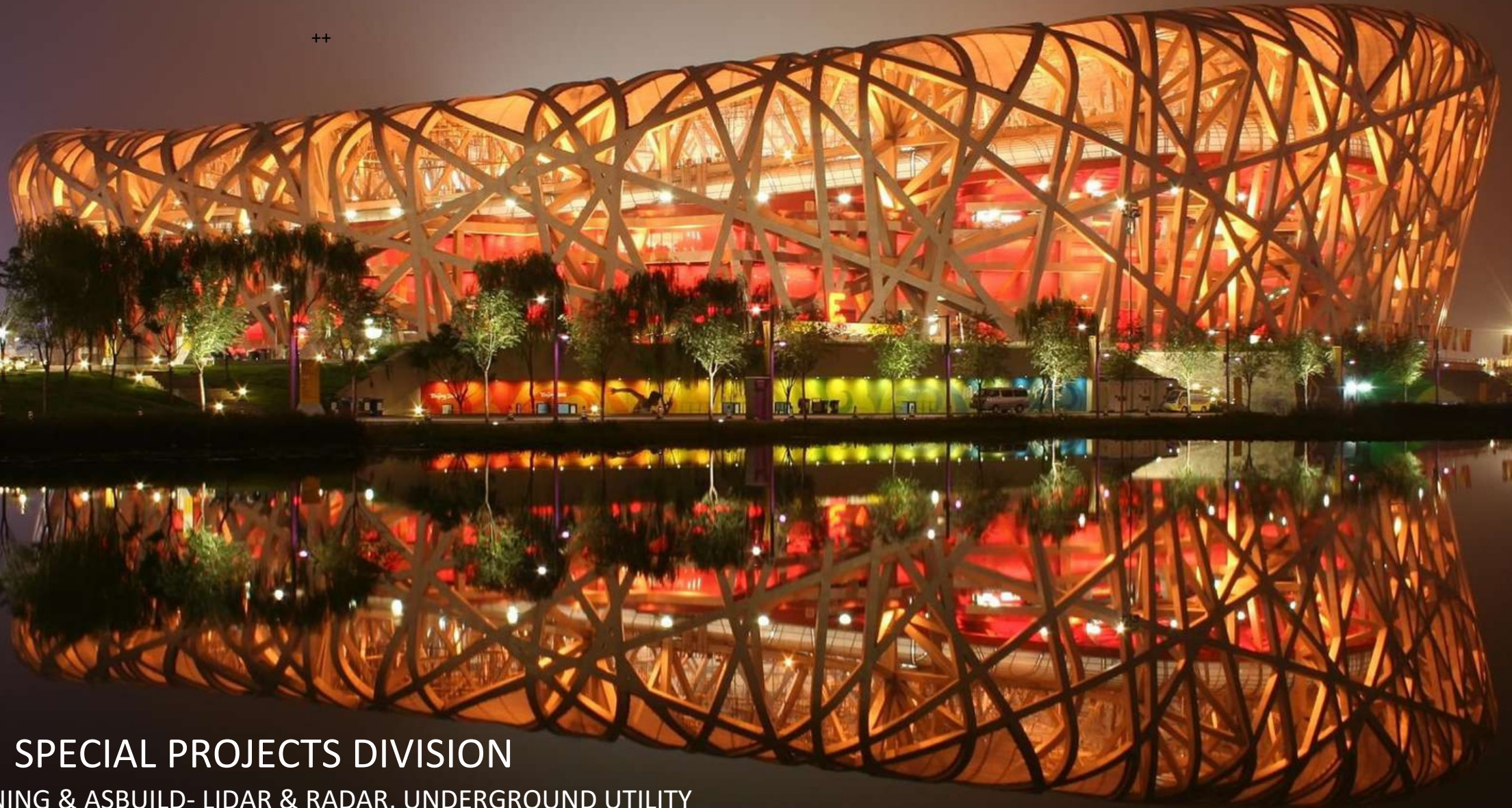


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SPECIAL PROJECTS DIVISION

3D SCANNING & ASBUILD- LIDAR & RADAR, UNDERGROUND UTILITY
DETECTION & ASBUILD, BIM & VDC, 3D SOLID MODELLING & VIRTUAL
REALITY, BATHYMETRIC SURVEY



The Company

ABOUT US

- Founded in 1983
- Leading group in Kingdom of Bahrain
- Specialized in 3D Surveying, LiDar, Geospatial, BIM solutions, Products & services
- ESRI, INC, USA Sole distributor
- Autodesk Reseller
- International Training

SERVICES

- Geospatial Information System-Solutions & Services (ESRI GIS)
- Autodesk- Products & Solutions
- 3D Lidar surveying, BIM, 3D documentation
- Underground utility Scanning & asbuild services
- Building Information Modelling- BIM & VDC solutions
- Bathymetric Survey
- International Education & Training -Esri, Autodesk & BIM
- ERP Product & solutions
- Solar Energy-Products & Solutions
- ICT & IOT - Services & Solutions

ASSOCIATION & PARTNERSHIPS

- Esri, Inc. USA -Global Market Leader in GIS
- Autodesk, Inc. USA
- Digital Globe, Inc. USA- space Satellite Imageries
- Microsoft silver partner
- Oracle Gold Partner





SPECIAL ENGINEERING PROJECTS

MicroCenter(MCG) Bahrain is a forward-looking company focused on specialized and innovative services and solutions that are needed for the 21st Century. Special Engineering Projects division of the MicroCenter group, accurately offers wide assortment of specialized innovative services & solutions, catering to a large number of audiences within Bahrain, Saudi Arabia, & Oman.

Our range of services includes,

- Geospatial Information system (GIS)-Solutions & Services (ESRI GIS)
- 3D surveying, BIM, 3D documentation
- Underground utility Scanning & asbuild services
- Building Information Modelling- BIM & VDC implementation & solutions
- 3D modelling & Simulation
- VR/AR/XR Technologies
- Bathymetric and Marine Survey
- International Education & Training –Esri & Autodesk

3D SURVEYING & BUILDING INFORMATION MODELLING- BIM LATEST TECHNOLOGY WITH MICROCENTER MOBILE LASER SCANNER-MLS & STATIC LASER SCANNER-TLS

**Leica Pegasus: 2
Ultimate Mobile Sensor Platform**





**Leica Scan Station P20
Ultra- high speed scanner**



FARO S150 scanner



**BLK 360 scanner
for indoor scanning**

SERVICES WE OFFER: 3D Lidar SCANNING & BIM

- _Urban Mapping & 3D modelling
- _Transportation– Railroads, Highways, Airports
- _Rail road surveying, asbuild and modelling
- _Utility transmission corridors
- _Power lines, pipelines
- _Oil/gas pipeline documentation & 3D modelling
- _ Surveying and mapping for urban road inventories, road assets, infrastructure monitoring, and pavement management
- _Transportation infrastructure and rail mapping, road surface measurements, city modeling, as-built surveying
- _Indoor 3D scanning & BIM modelling
- _Scan to BIM
- _ 3D scanning for plant Machinery & 3D solid modelling with Geometric Dimensioning
- _3D scanning for structures and BIM modelling
- _3D scanning for HVAC & MEP and BIM modelling
- _Coastal zone erosion documentation
- _Unused Building 3D documentation & analysis
- _ Digital Documentation and 3D modelling of Cultural Heritage



LATEST TECHNOLOGY WITH MICROCENTER UNDEGROUND UTILITIES SCANNERS & STRUCTURAL CONCRETE SCANNERS

SERVICES WE OFFER: GROUND PENETRATING RADAR

Scanning for Underground utilities, Cables, Structures, Buried Assets; for the depth penetration up to 10 meter below ground level using Advance 3D Ground Penetrating Radar and Electromagnetic locator system

As-build of the underground utilities, cables & structure with identification of Metallic and Non-Metallic pipes and their sub-types, Plastic/PVC Pipes, HV/LV Cables, Optical Fiber, structures & objects, geometry & location coordinates

Manhole investigation & Invert measurements

Structural imaging and Concrete Scanner-Radar Imaging

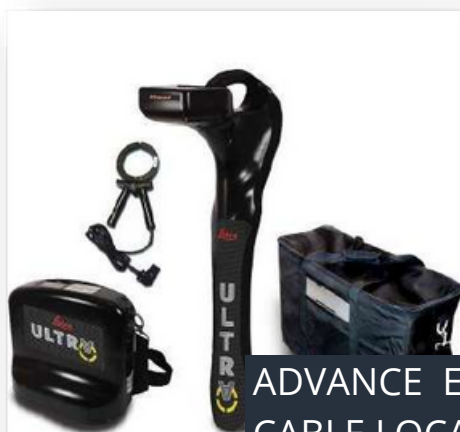
-

STRUCTURAL IMAGING & CONCRETE SCANNER

GSSI-UtilityScan DF Scanner with dual-frequency digital antenna (300 and 800 MHz). Depth penetration-7m b.g.l.



Proseq GS-8000 3D GPR scanner. Depth penetration-10 m b.g.l.



ADVANCE ELECTRIC CABLE LOCATOR

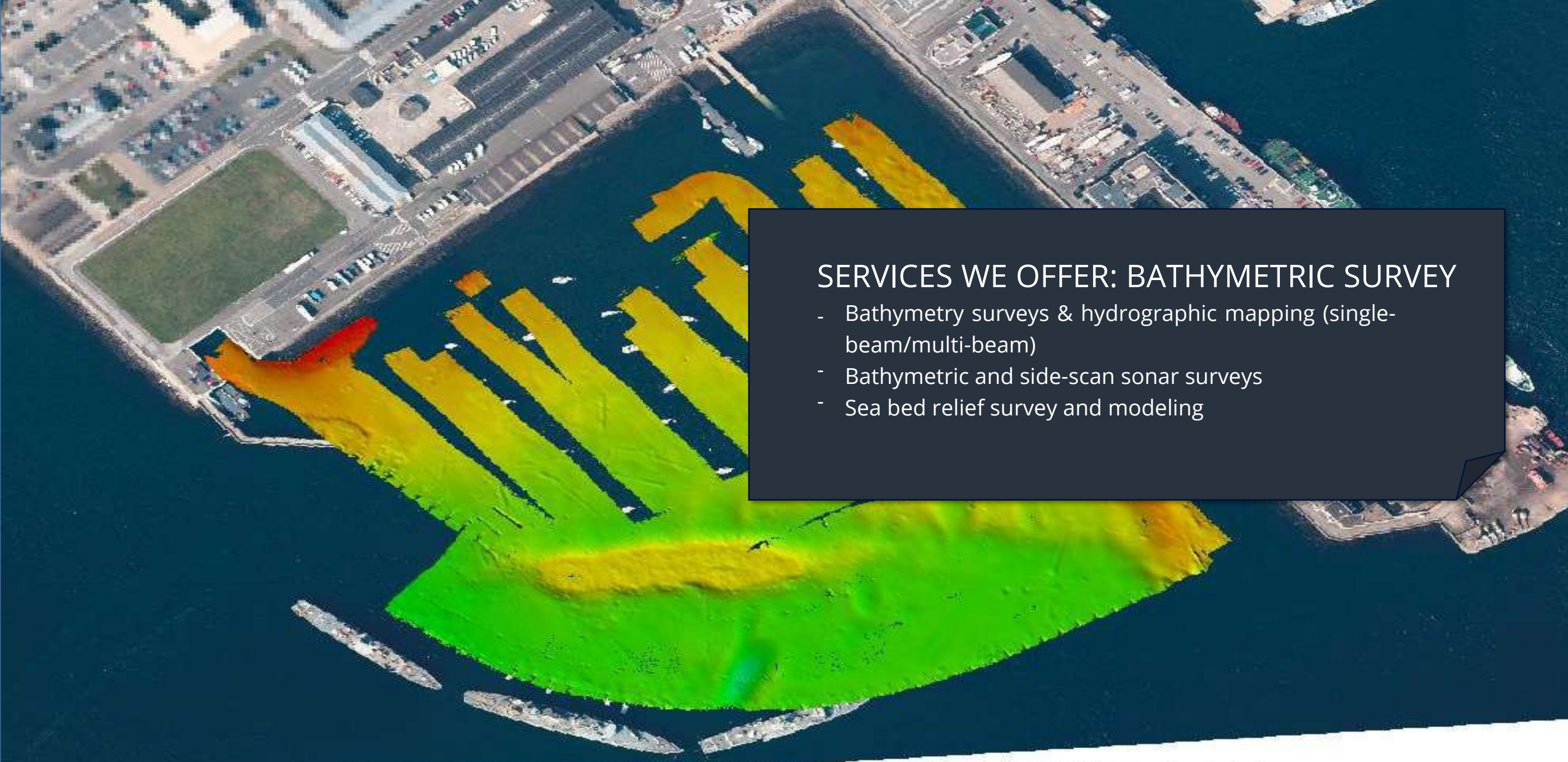


BIM (building information modeling) | VDC (virtual design and construction)

SERVICES WE OFFER: BIM SOLUTIONS

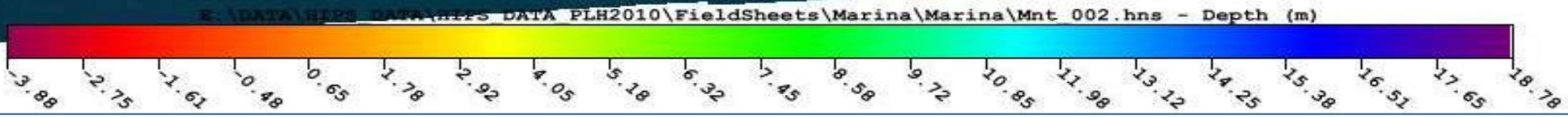
- BIM & VDC solutions for Government & AEC using ESRI & AUTODESK Applications like Autodesk construction cloud, BIM 360
- Construction Progress Tracking and Verification
- .Scan to BIM
- .BIM Content Creation,
- .BIM for MEP & HVAC
- .Coordination & Clash detection
- .3D Modelling & Visualization- AR and VR Solutions
- .integrated 3D BIM model
- .BIM Training





SERVICES WE OFFER: BATHYMETRIC SURVEY

- Bathymetry surveys & hydrographic mapping (single-beam/multi-beam)
- Bathymetric and side-scan sonar surveys
- Sea bed relief survey and modeling



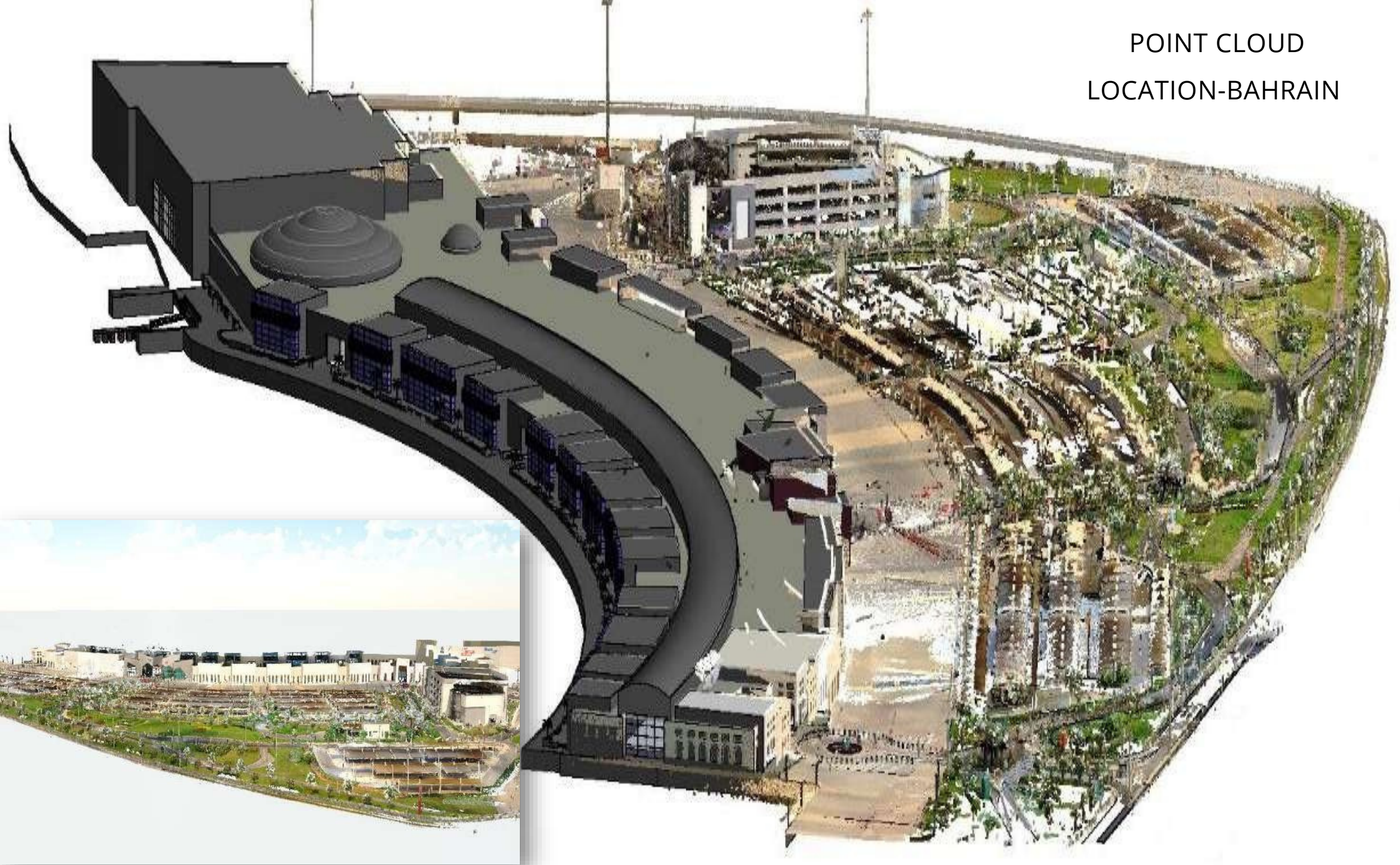
PROJECT PORTFOLIO

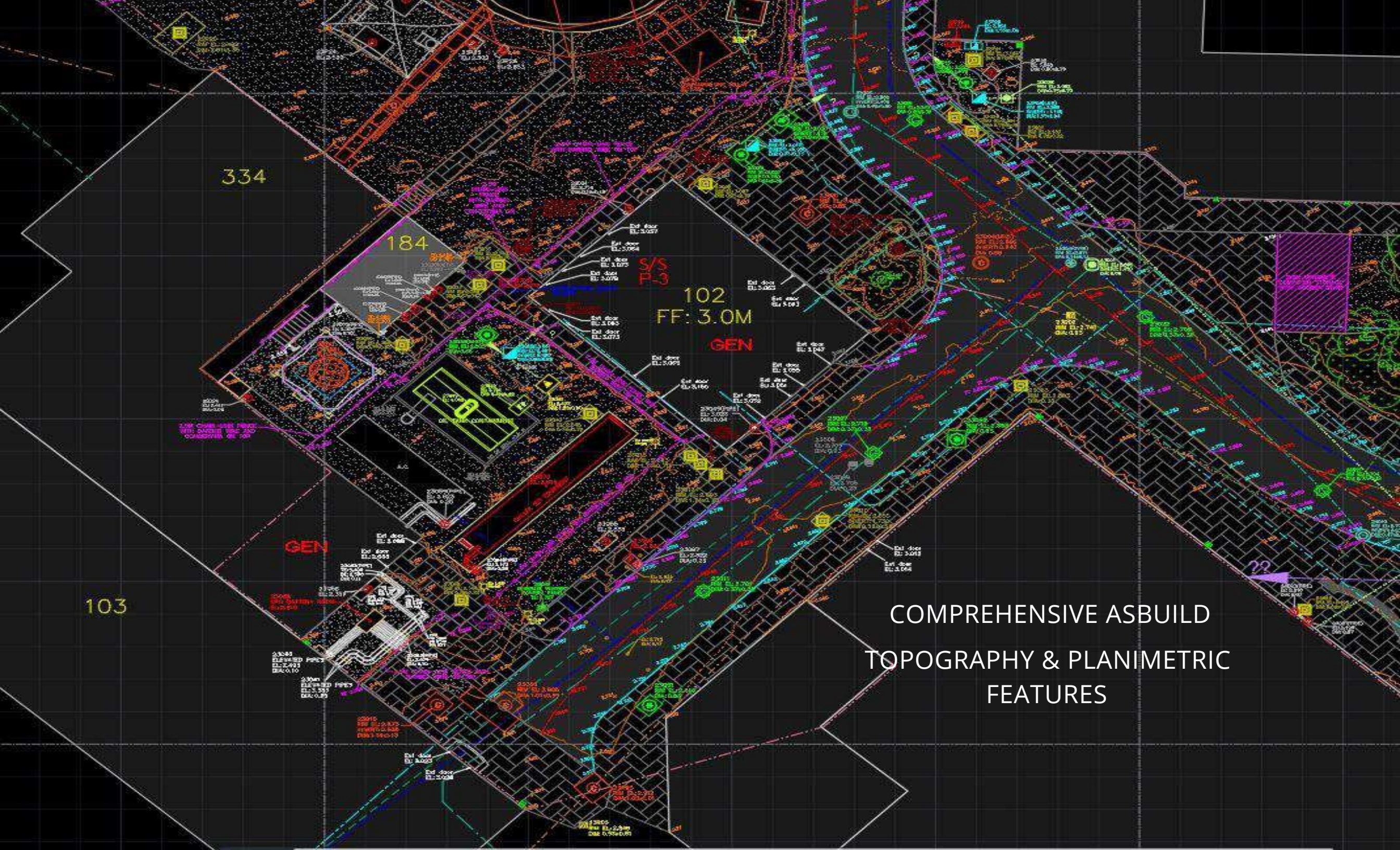


PROJECT EXPERIENCE

- 3D SCANNING: 3D Lidar Scanning, Topographic & Planimetric Asbuild from point cloud; for *over 4.75 million square meters'* area within Bahrain & Saudi Arabia.
- 3D GPR SCANNING: 3D Scanning for underground utilities detection and Asbuild for *over 6 million square meters' area* within Bahrain & Saudi Arabia.
- BUILDING INFORMATION MODELLING-BIM: Scan-BIM for structure, buildings and plant 3D solid model; for EIGHT (8) major projects in Bahrain and Saudi Arabia.
- STRUCTURAL SCANNING: Structural & Concrete scanning using structural Radar scanning technology for detection of Beams, structures and power cables within the structure /wall.
- INTERNATIONAL TRAINING-ESRI ArcGIS & Autodesk CADD & REVIT. BIM.

POINT CLOUD
LOCATION-BAHRAIN





334

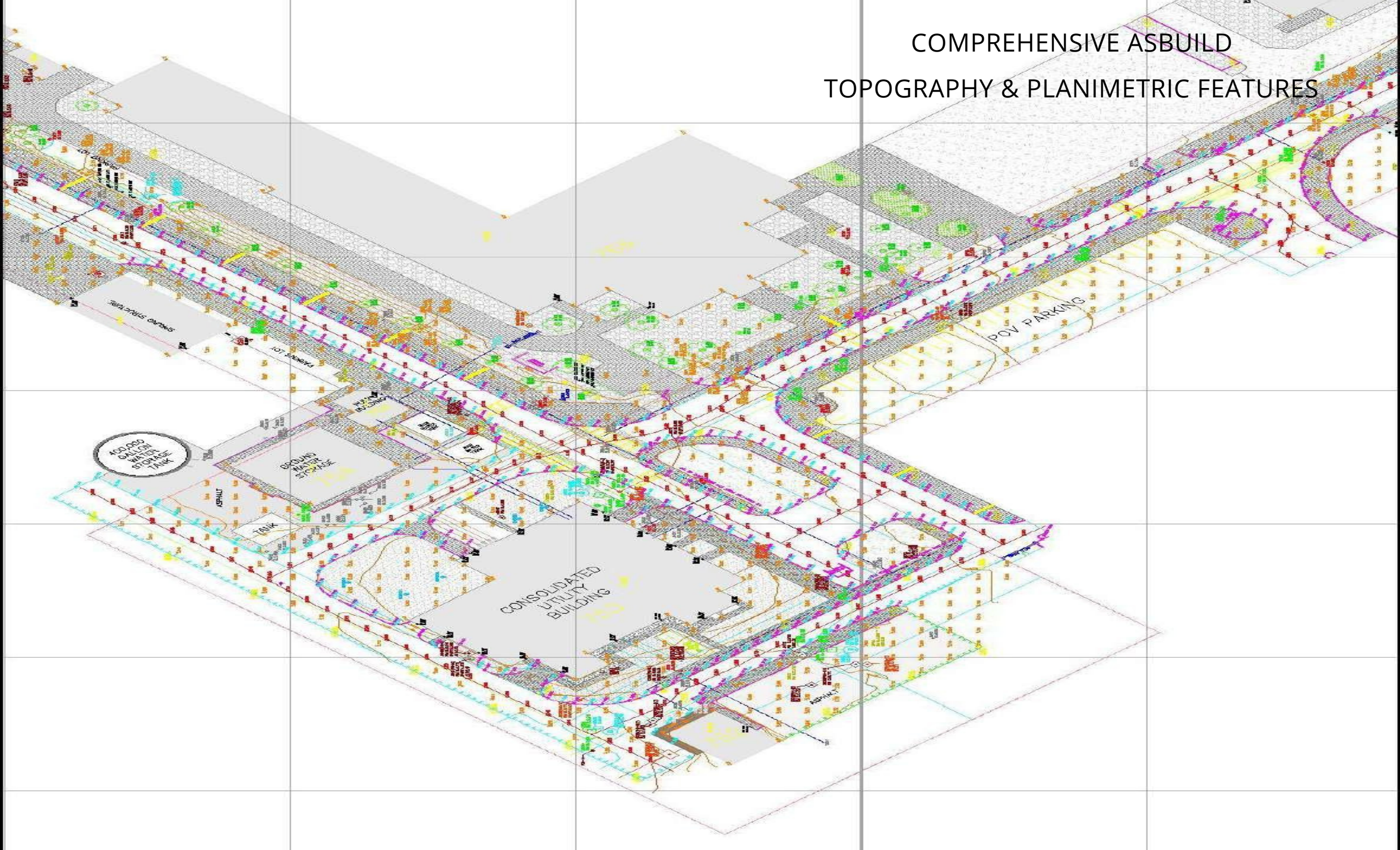
184

102
FF: 3.0M
GEN

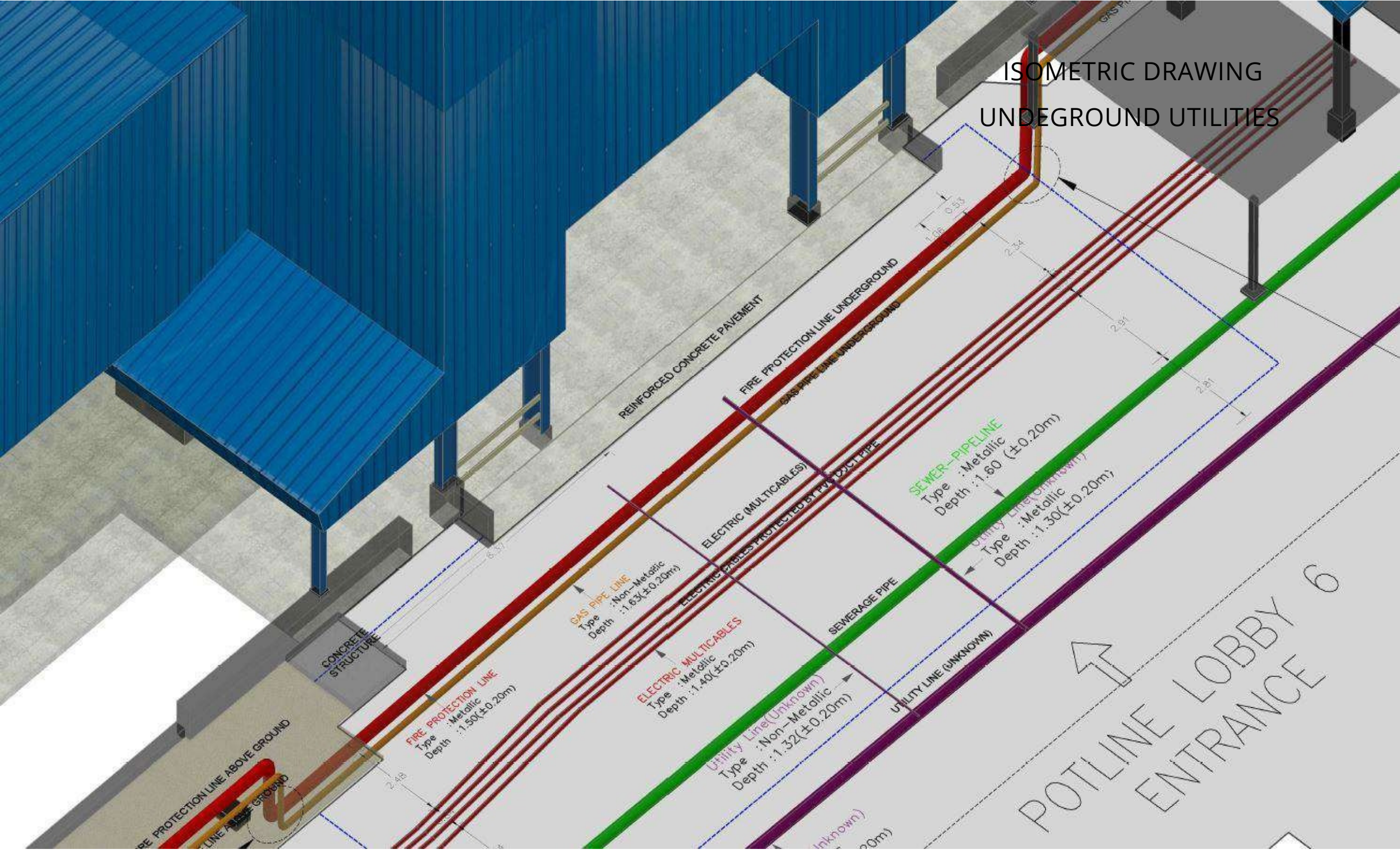
103

COMPREHENSIVE ASBUILD
TOPOGRAPHY & PLANIMETRIC
FEATURES

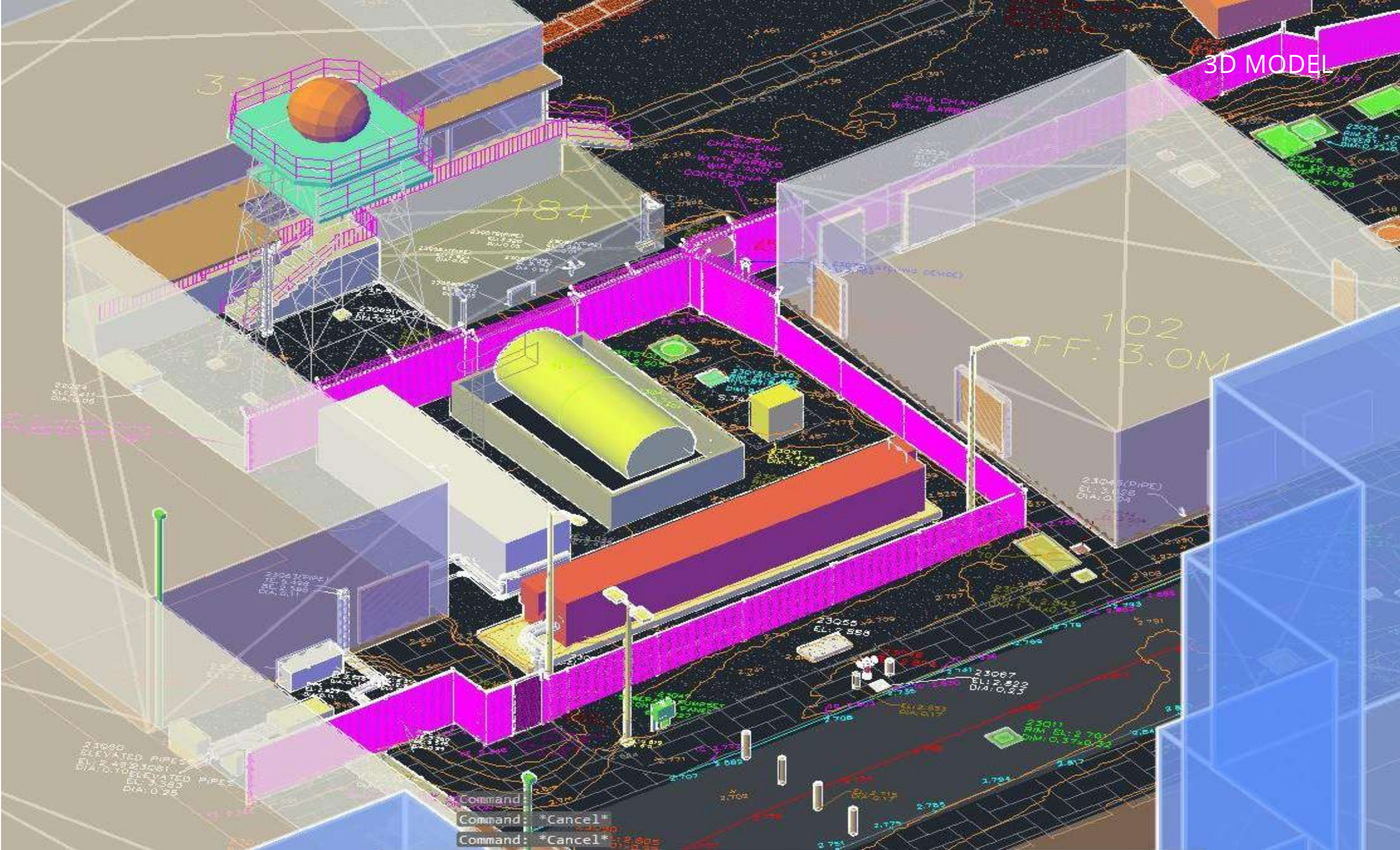
COMPREHENSIVE ASBUILT TOPOGRAPHY & PLANIMETRIC FEATURES



ISOMETRIC DRAWING UNDEGROUND UTILITIES



3D MODEL



Command
Command: *Cancel*
Command: *Cancel*

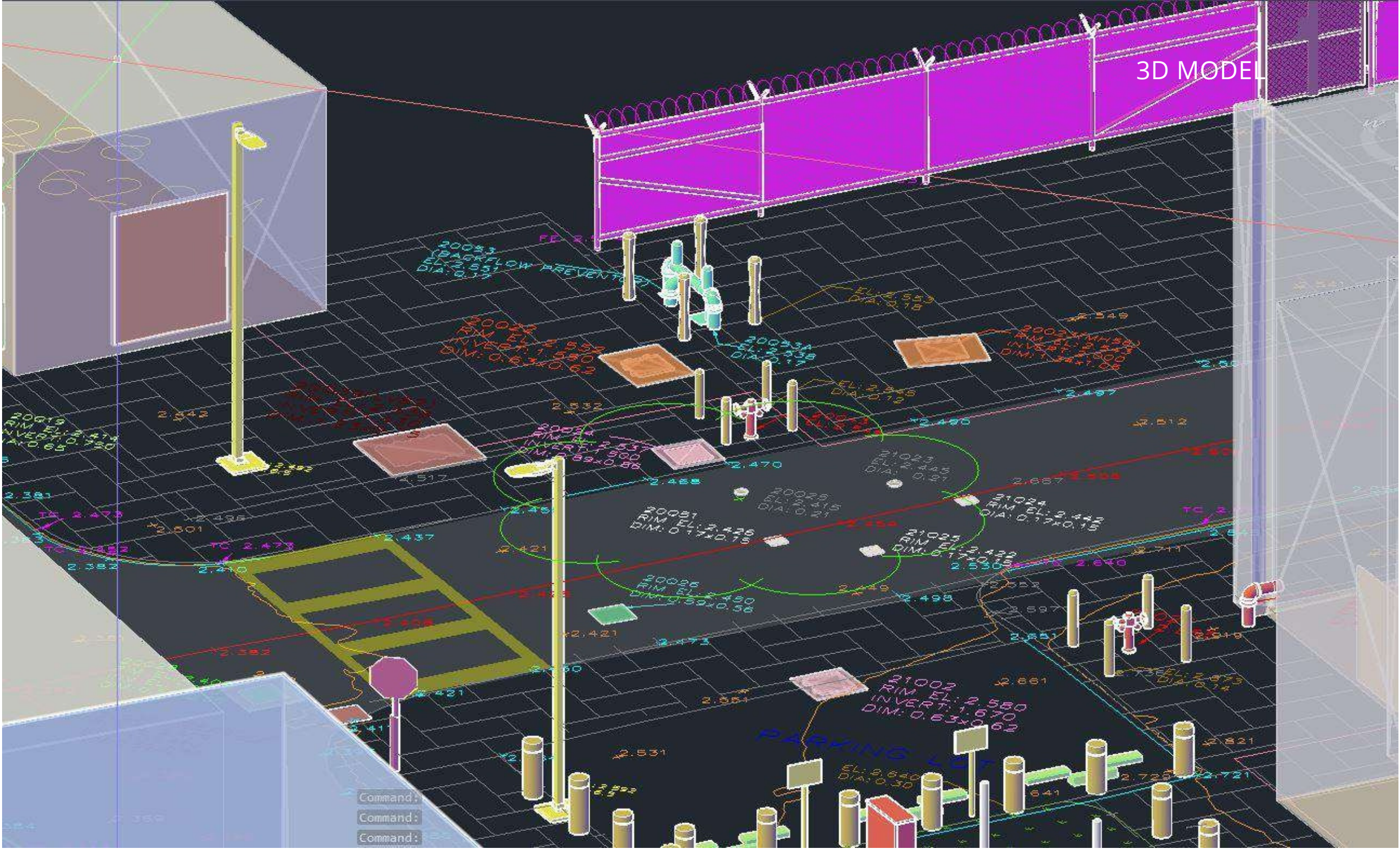
23000
ELEVATED PIPES
EL: 2.43
DIA: 0.25
ELEVATED PIPES
EL: 2.55
DIA: 0.25

23045 (PIPE)
EL: 3.05
DIA: 0.25

702
FF: 3.0M

784

3D MODEL



Command:
Command:
Command:

3D MODEL



3D MODEL

RIYADH DEVELOPMENT AUTHORITY BUILDING

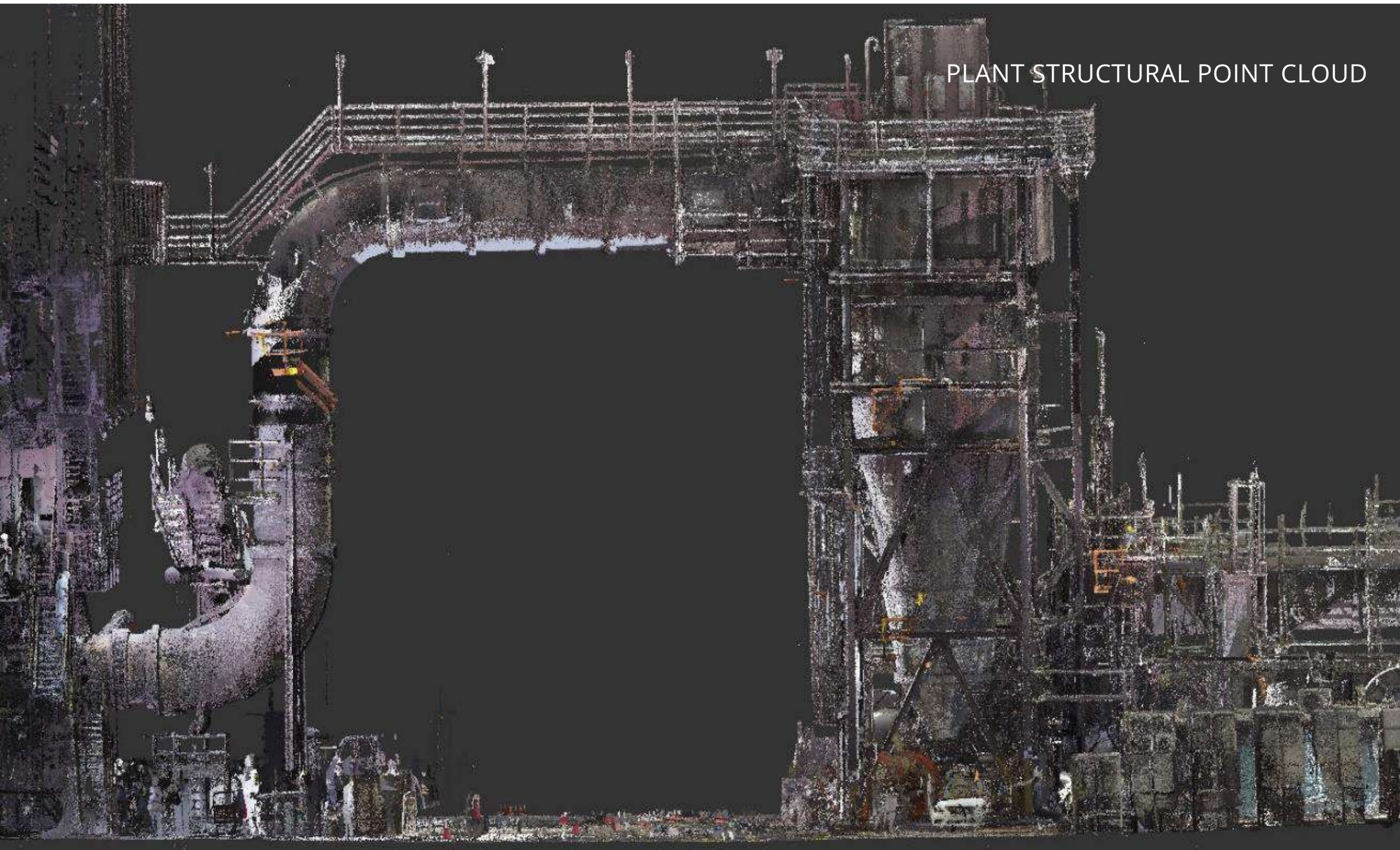


3D MODEL

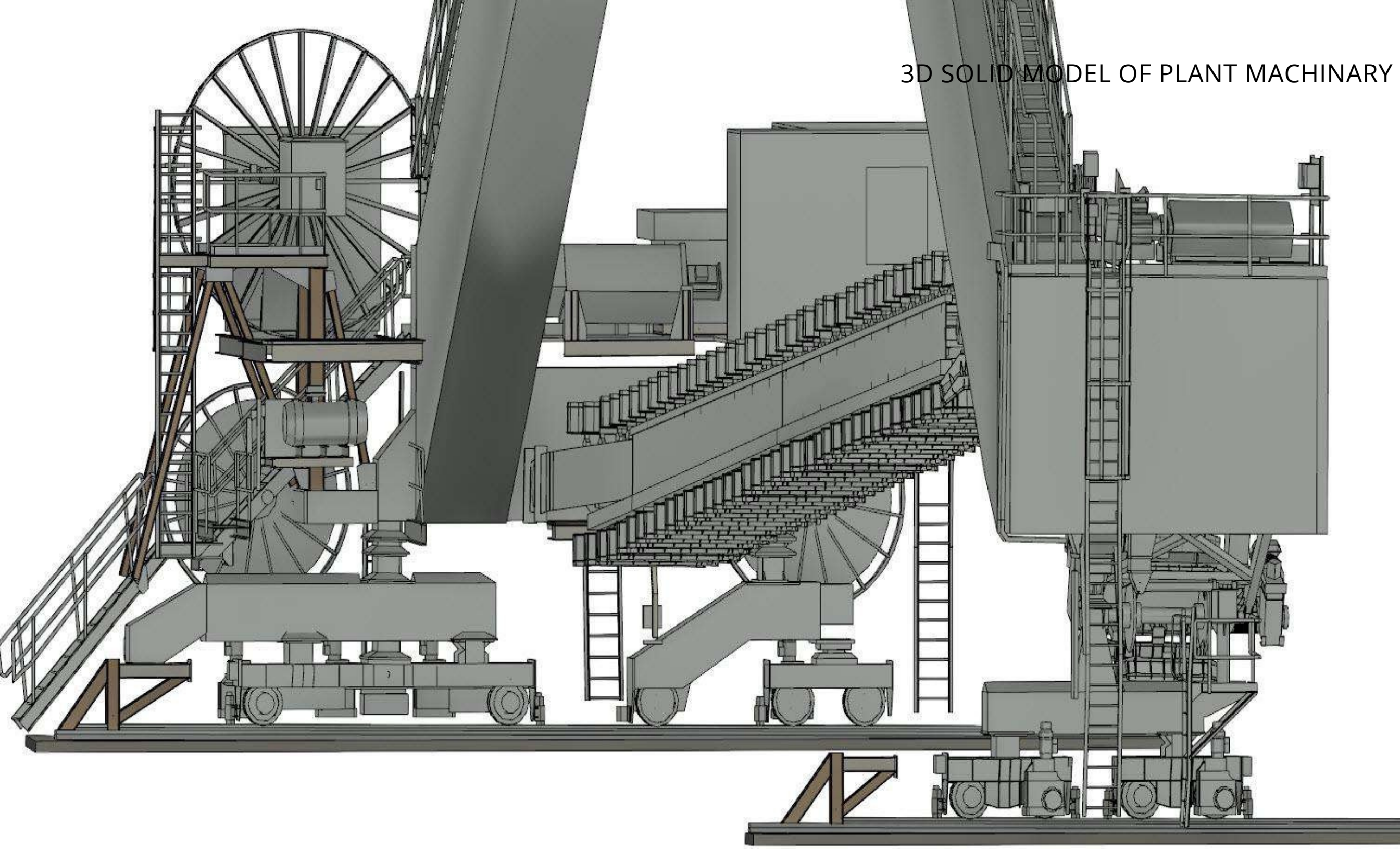
RIYADH DEVELOPMENT AUTHORITY BUILDING



PLANT STRUCTURAL POINT CLOUD



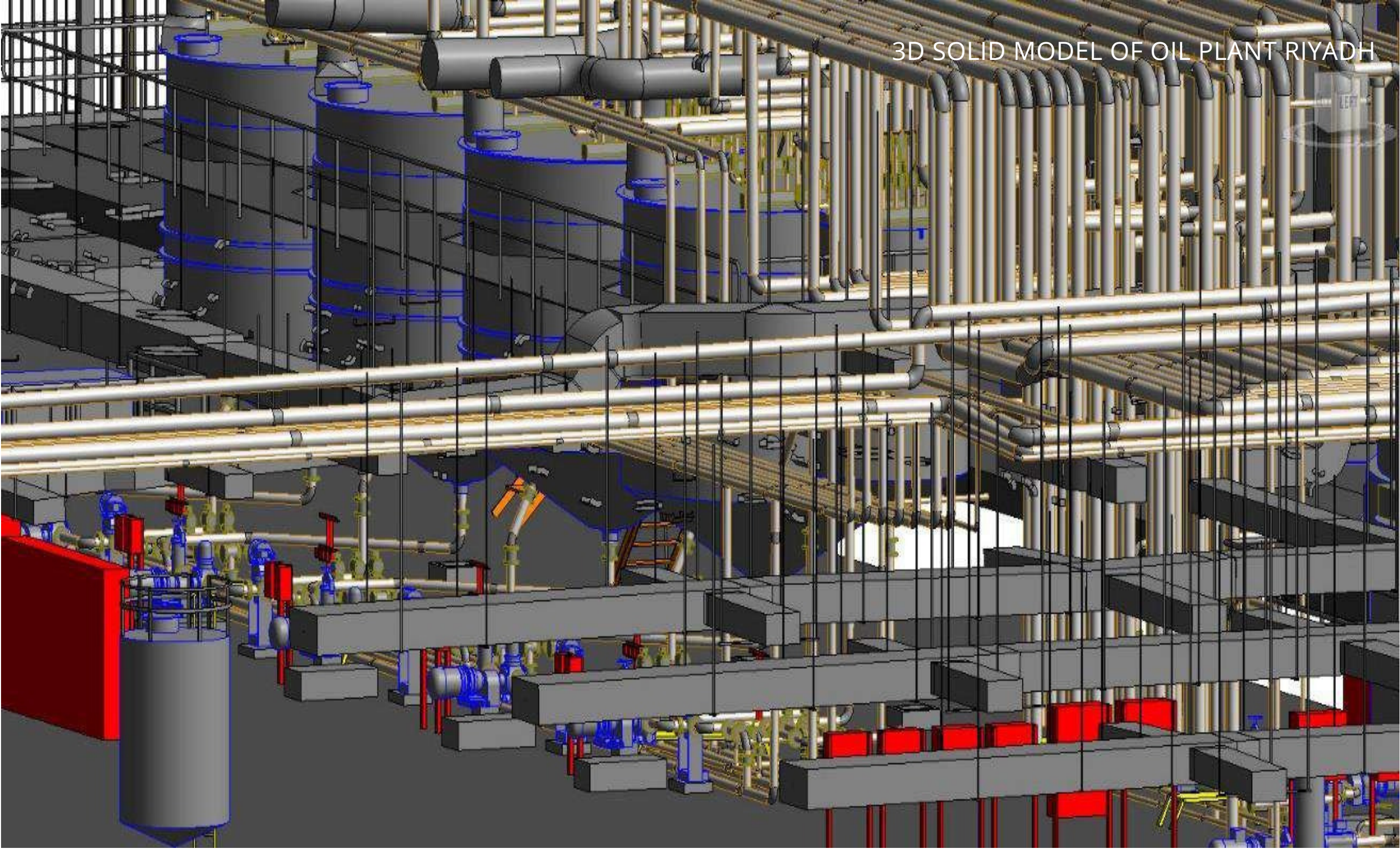
3D SOLID MODEL OF PLANT MACHINERY



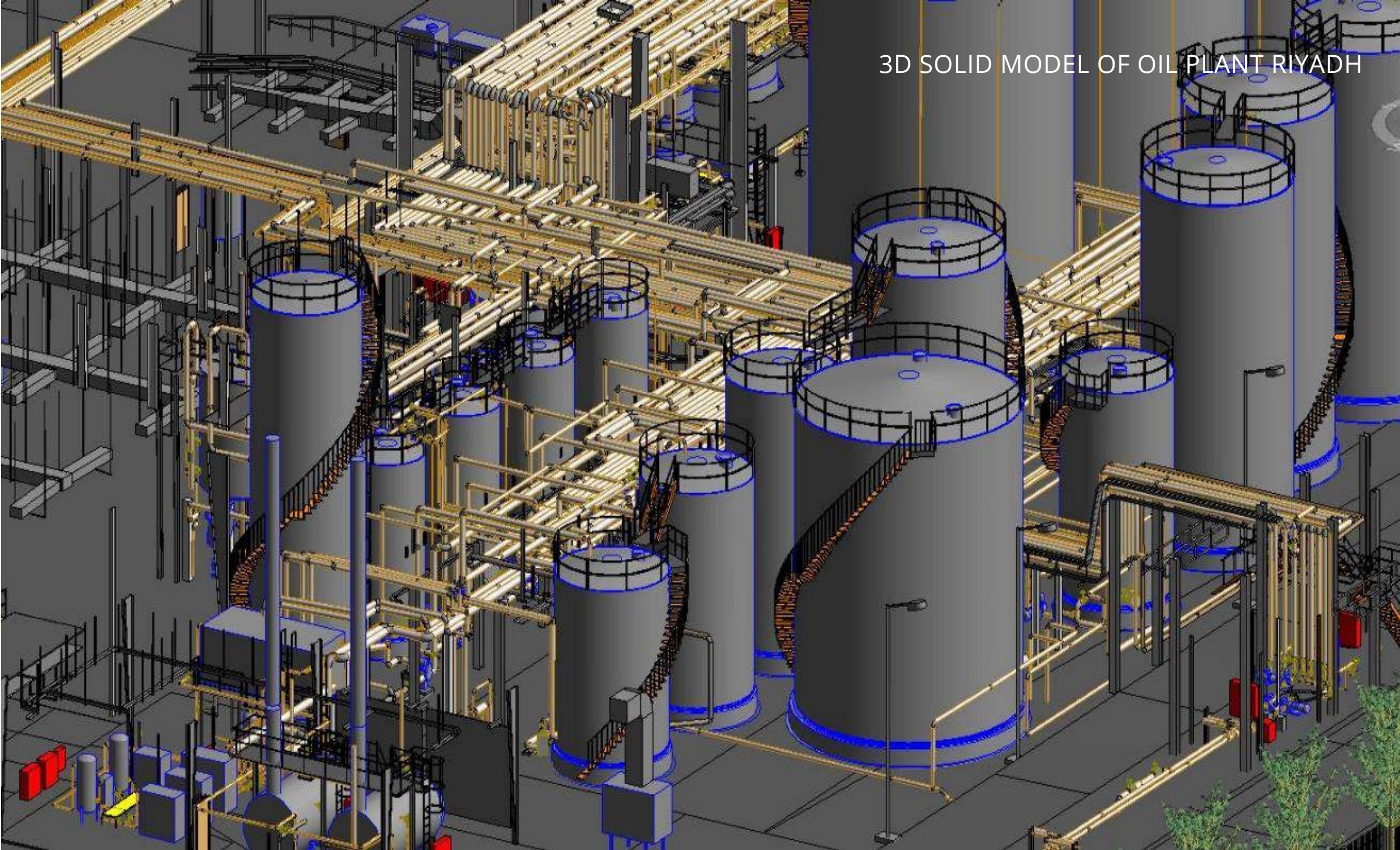
3D SOLID MODEL OF OIL PLANT RIYADH



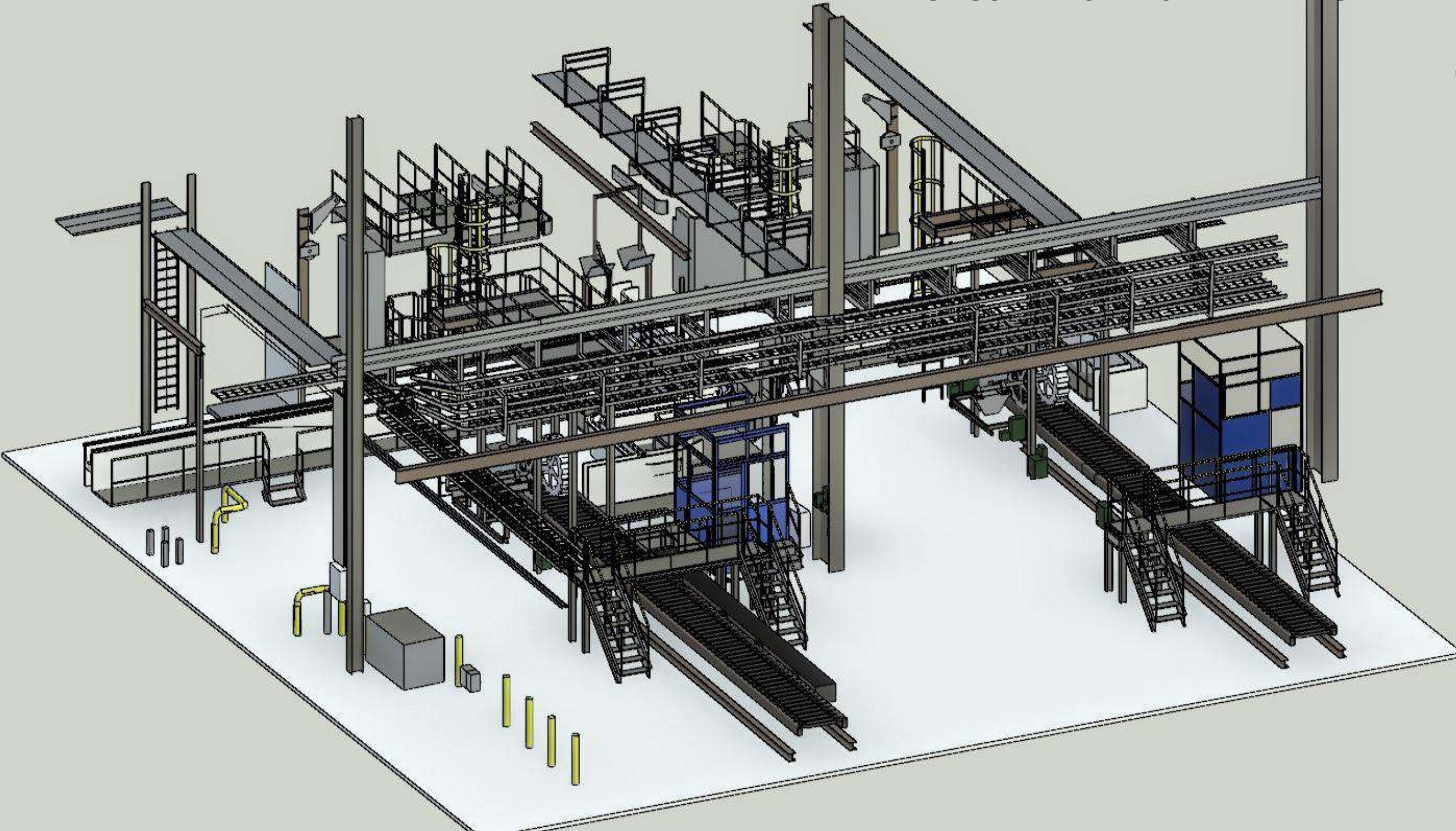
3D SOLID MODEL OF OIL PLANT RIYADH



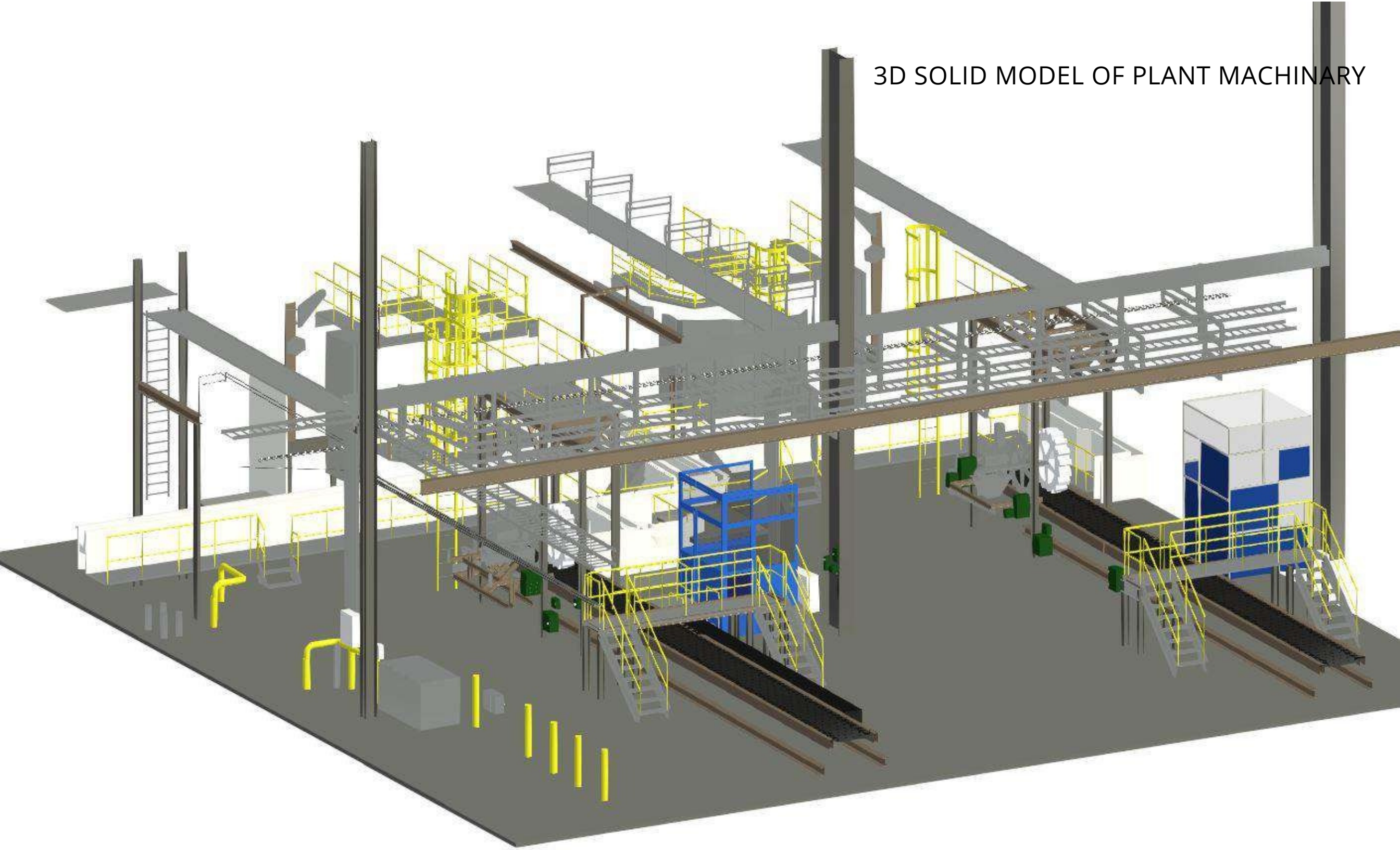
3D SOLID MODEL OF OIL PLANT RIYADH



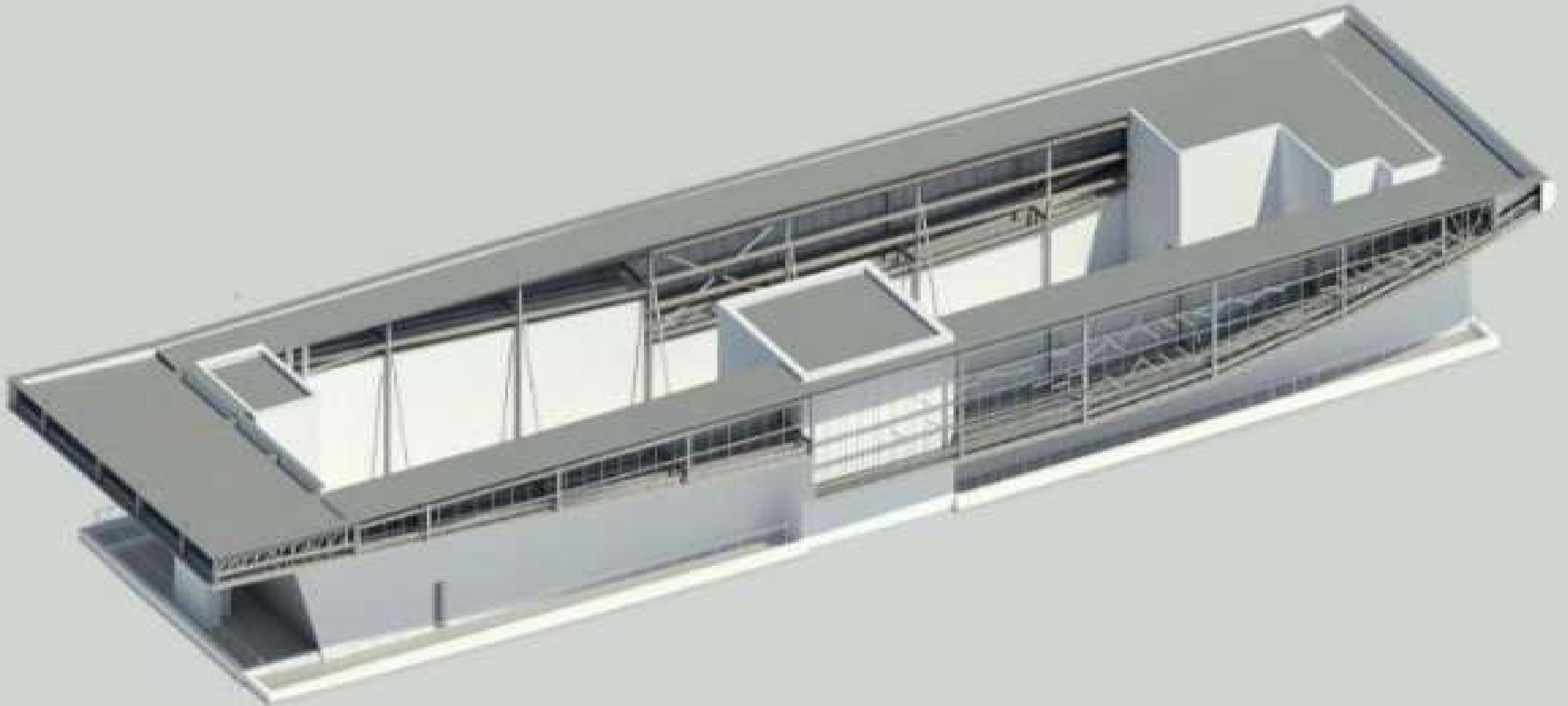
3D SOLID MODEL OF PLANT MACHINERY



3D SOLID MODEL OF PLANT MACHINERY



3D BIM MODEL OF THE CANOPY
STRUCTURE



3D MODELLING & VIRTUAL REALITY- FERRARI SHOWROOM

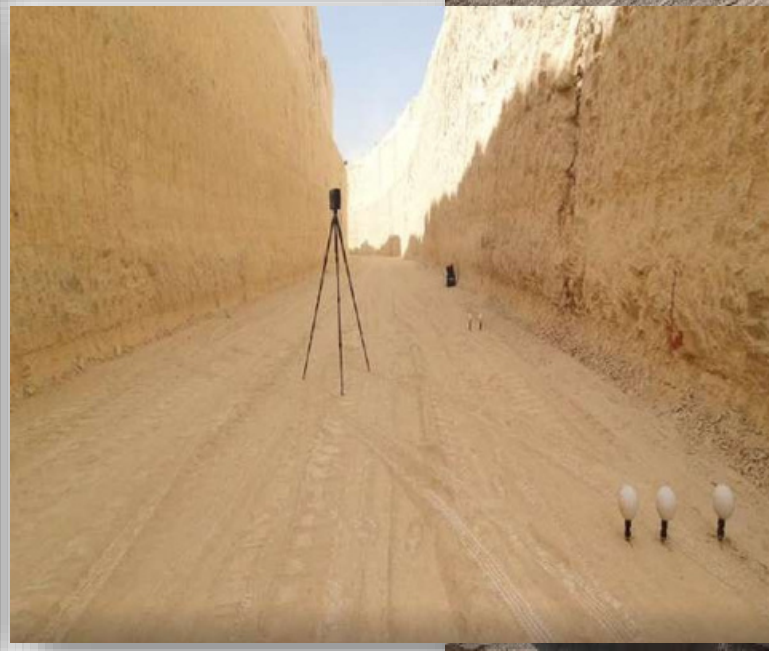
BAHRAIN

<https://pano.autodesk.com/pano.html?url=jpgs/271fae5e-d1f4-4343-bbb2-6362066ec722&version=2>

<https://pano.autodesk.com/pano.html?url=jpgs/86910f32-c308-45e3-84de-03fc4703201a&version=2>



FIELD SCANNING POINT CLOUD DATA ACQUISITION





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MICROCENTER GROUP

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