TEKLA STEEL DETAILING

".....after years of producing steel fabrication drawings using Tekla software for projects exclusively designed in-house, DNEC now steps up and offers those years of experience in Tekla detailing and R&D expertise to steel fabricators for their projects developed by external consultants....."

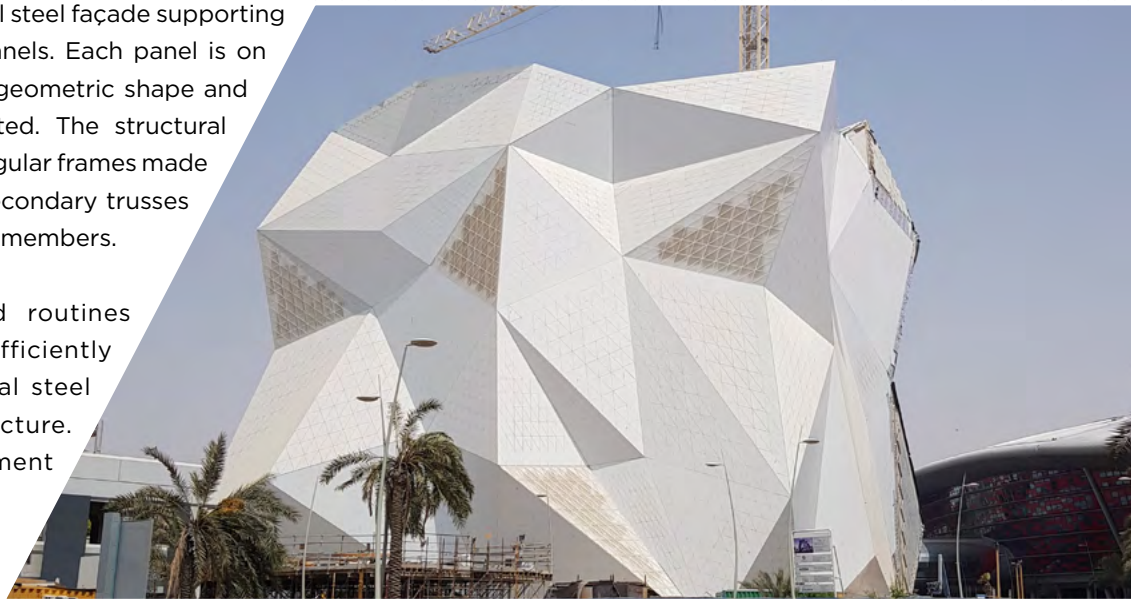
DNEC

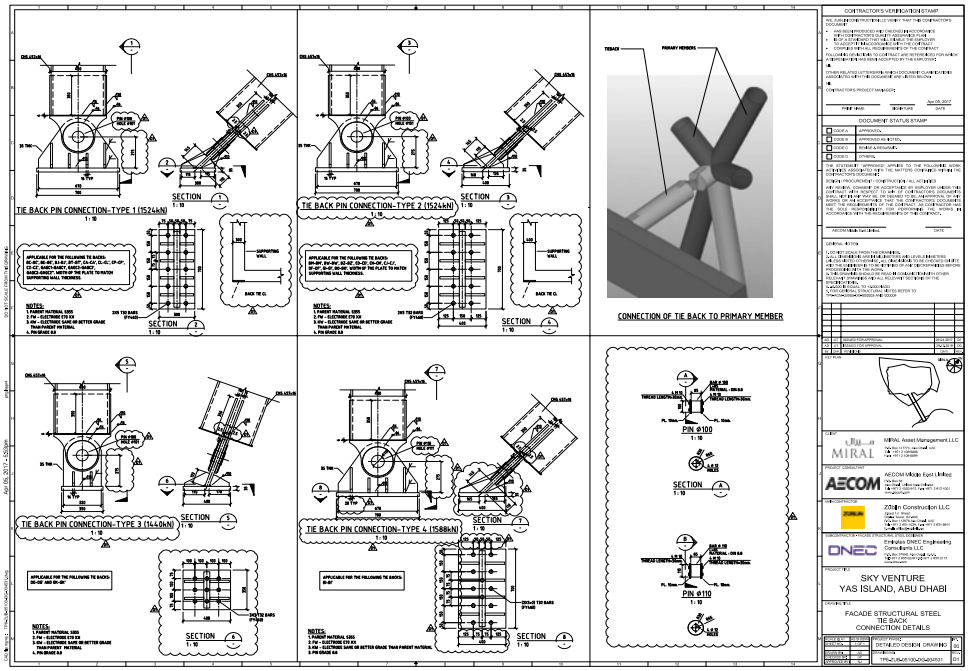
SKY VENTURE / Indoor Flight Chamber and Climbing Centre

Design and detailing of structural steel façade supporting frame made up of triangular panels. Each panel is on a different plane, has a unique geometric shape and none of the panels are repeated. The structural framing consists of primary triangular frames made up of tubular steel members. Secondary trusses are connected to primary frame members.

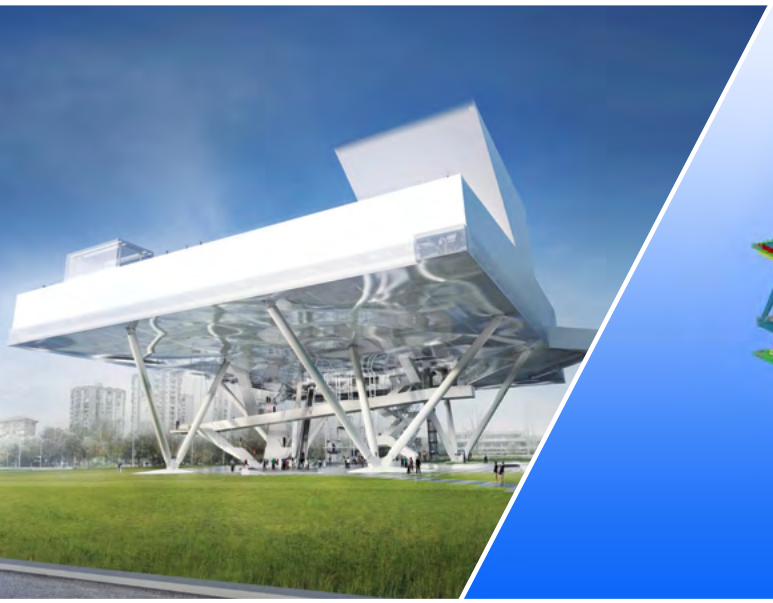
DNEC R&D team developed routines using Tekla API module to efficiently yet accurately detail structural steel elements of this complex structure. We proudly share our achievement with you.

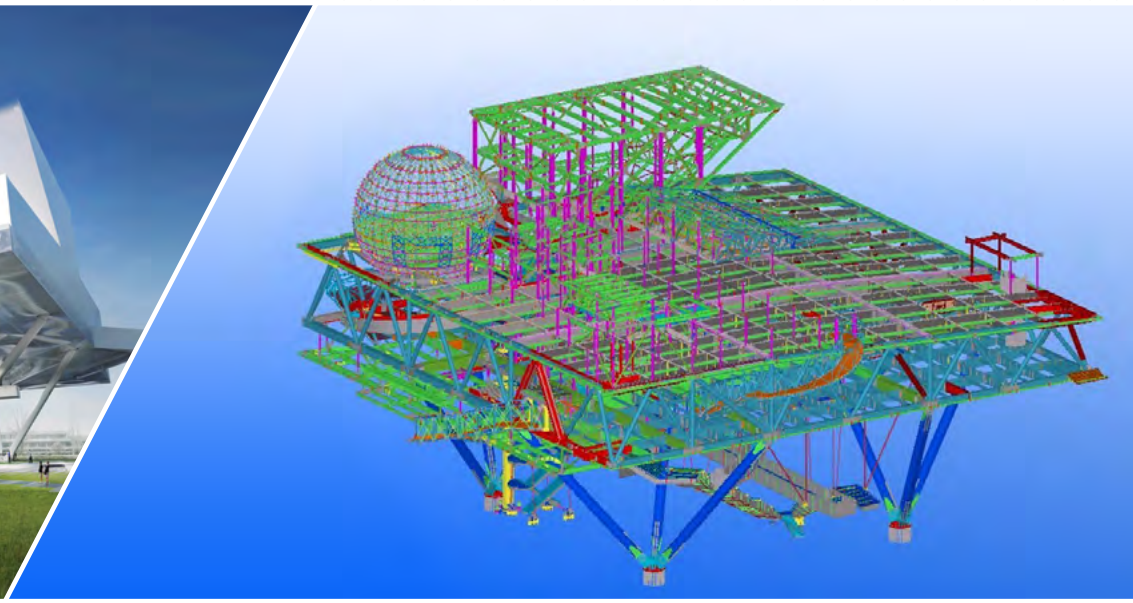
Visit our presentation:
https://youtu.be/NjS2i64nuH4



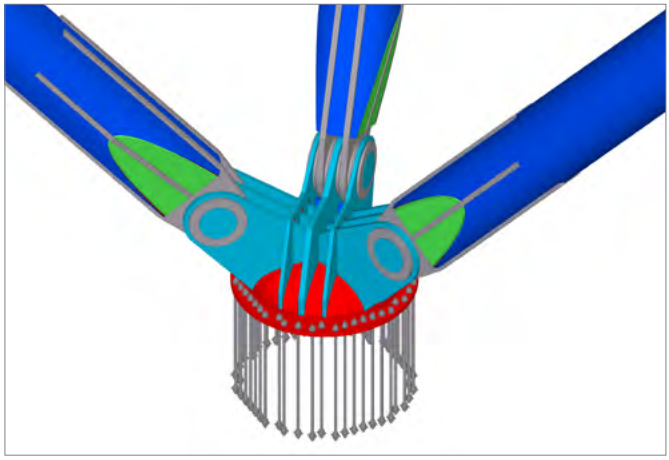


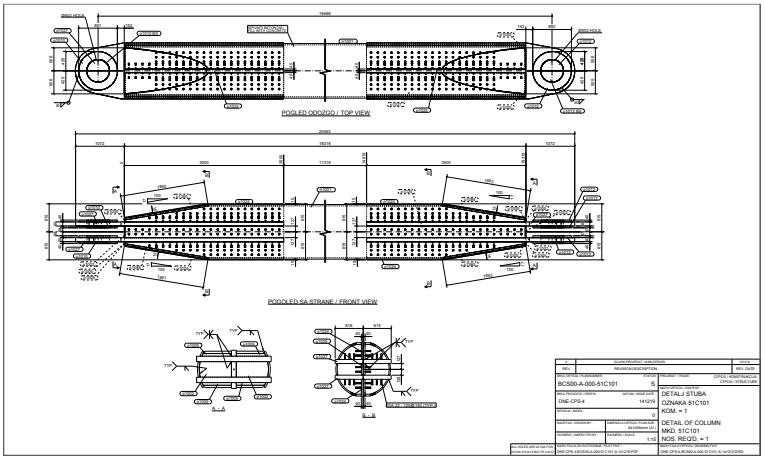
CFPOS - Centre for promotion of science

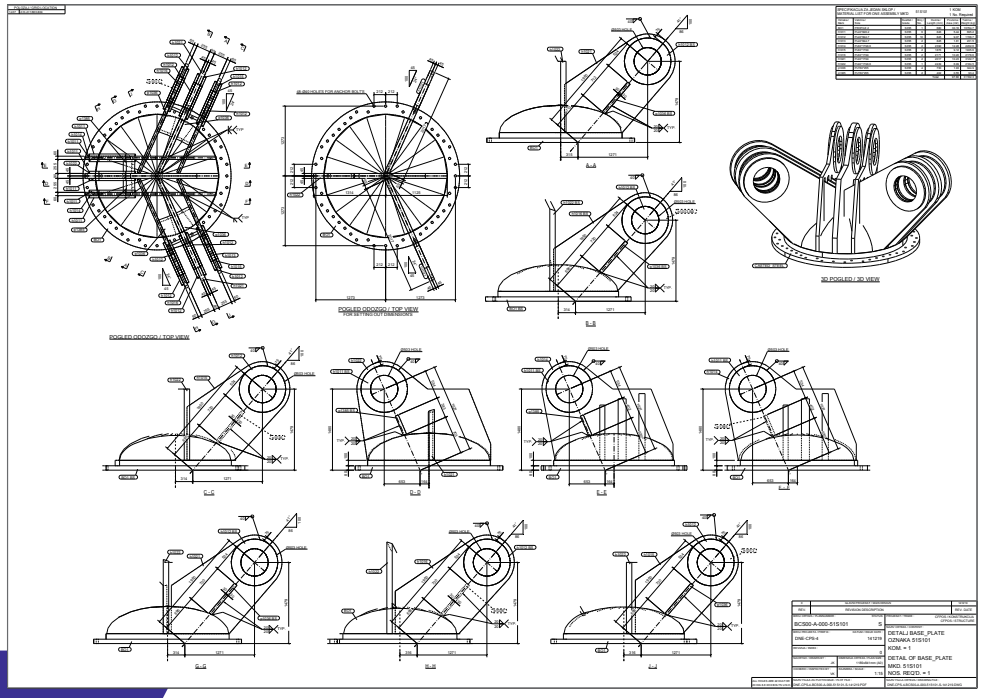




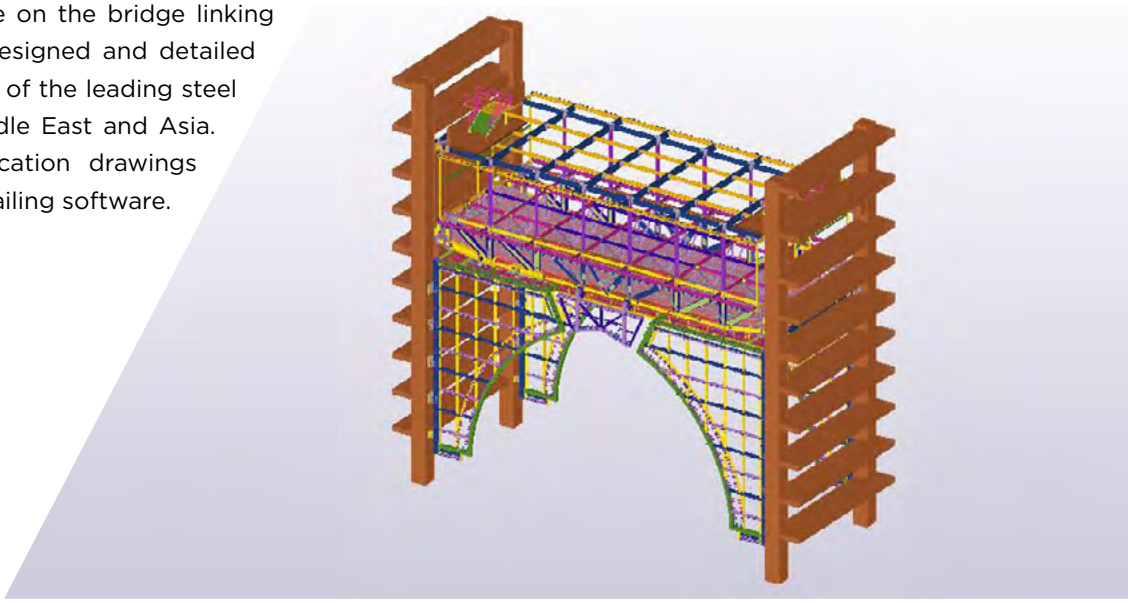
DNEC were engaged by the award - winning Austrian architect Wolfgang Tschapeller to join his team as lead structural designer. This futuristically shaped project has a 15000m² elevated exhibition space and consumed over 2500MT of structural steel. As part of the scope and subsequent to completion of structural design DNEC developed complete fabrication drawings using Tekla detailing software. DNEC actively worked along with the Tekla software engineers to enhance the Tekla ability to solve some of the unique geometrical and detailing issues.

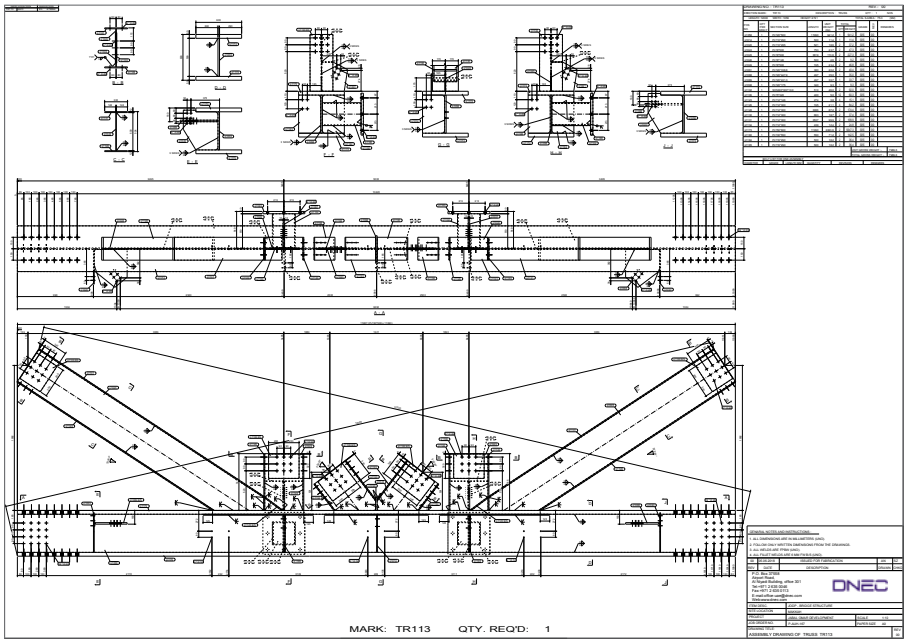


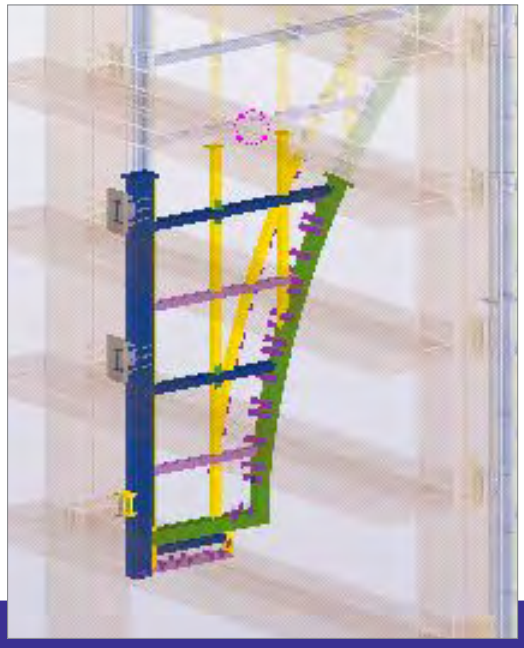


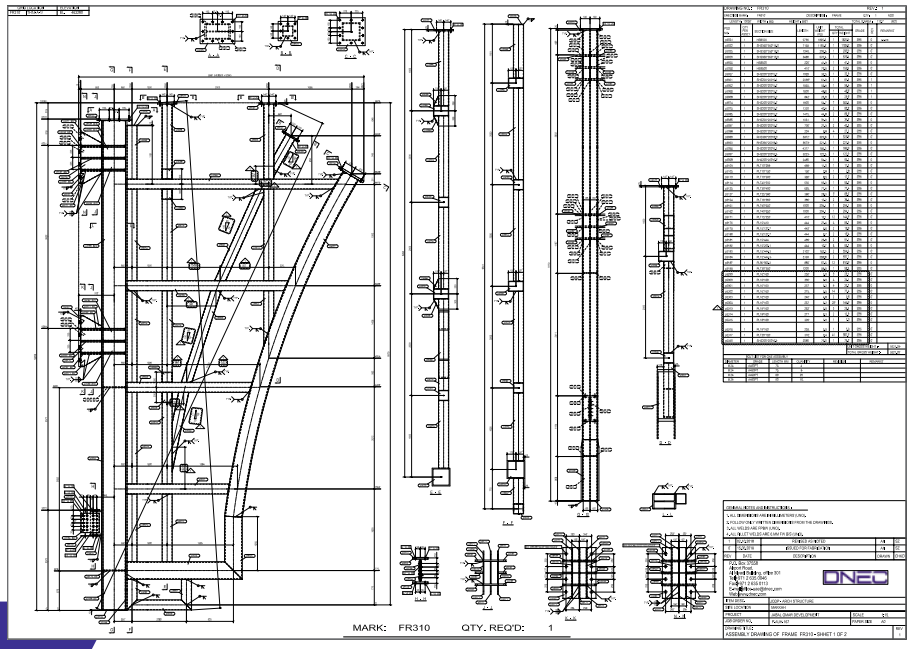


This highest positioned mosque on the bridge linking two 300m tall buildings was designed and detailed for Eversendai Engineering, one of the leading steel fabricators and erectors in Middle East and Asia. Complete modeling and fabrication drawings were developed using Tekla detailing software.

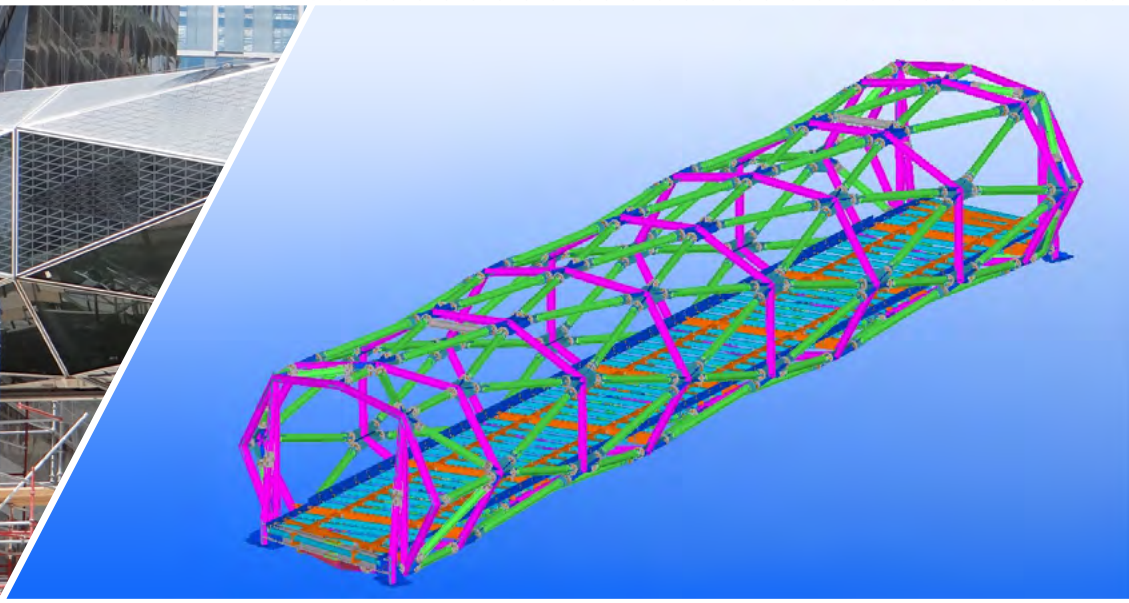




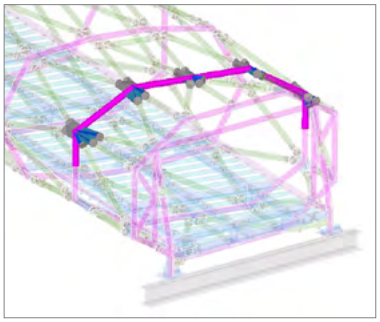


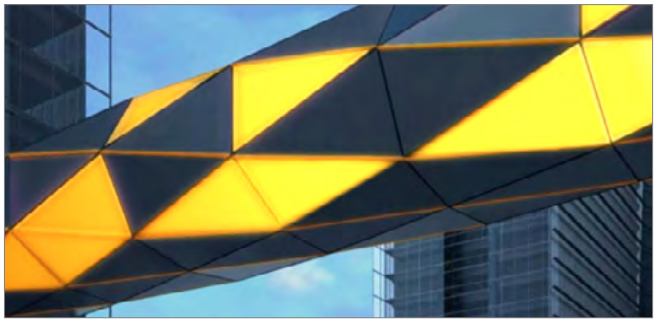


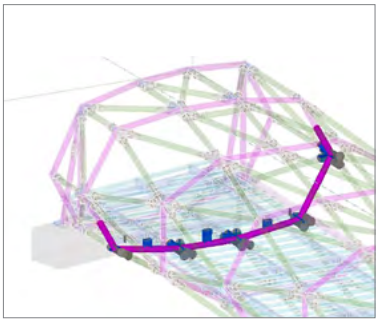
KAFD Skywalk Bridges

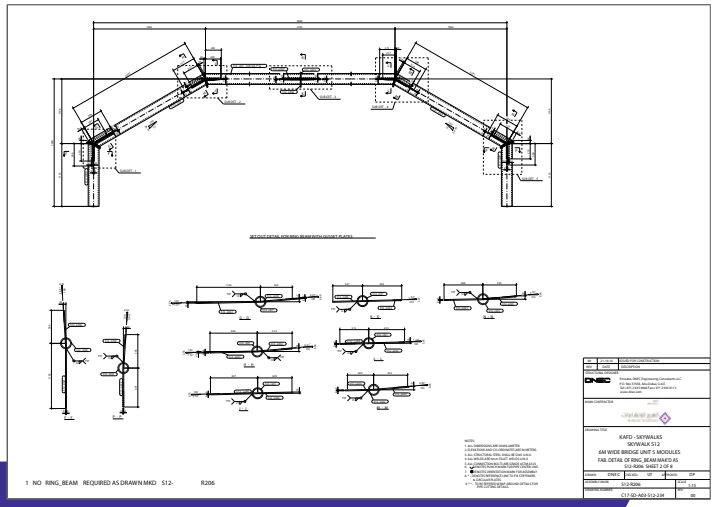


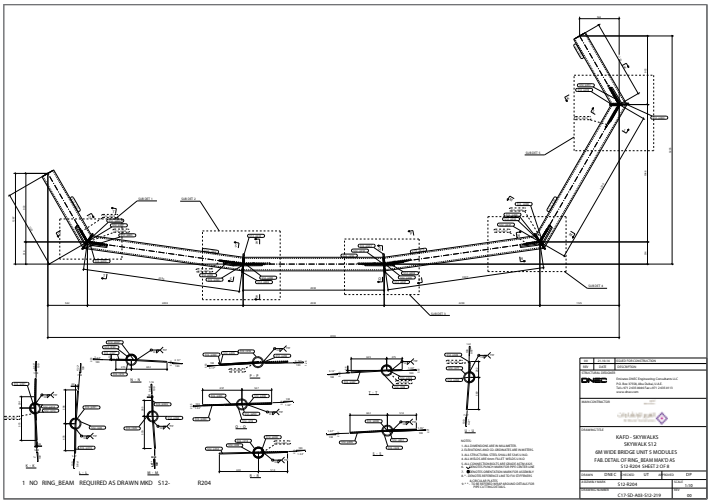
Tubular type Skywalk link bridges are designed to interconnect all buildings at the KAFD development in Riyadh. 57 out of 90 bridges were scheduled for construction during the project's 1st phase. DNEC has undertaken all engineering design services starting from bridge design followed by the preparation of fabrication drawings using Tekla detailing software. DNEC R&D team worked along the Tekla engineers to supplement Tekla proprietary CHS joint details library with new connection details and rules of application so the appropriate CNC files can be developed and used during machine profile cutting process.











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