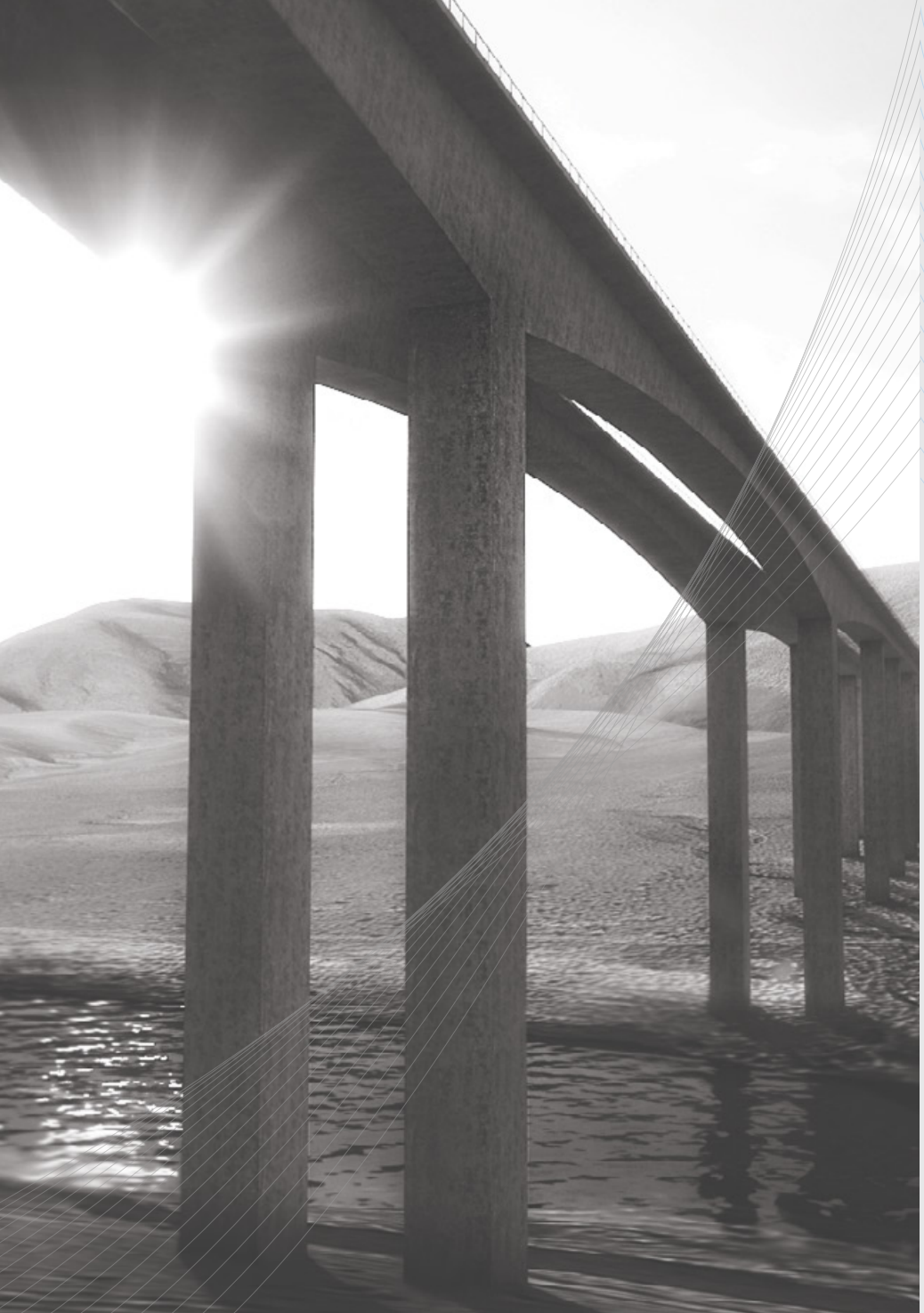
YAPIFEN ENGINEERING

DREAM.
DESIGN.
DARE.



YAPIFEN ENGINEERING

CONTENT

WHO WE ARE

YAPIFEN Engineering, founded in 2005, is a private engineering and consultancy company in Ankara, Turkey. ✓

Within the scope of design, engineering, and consultancy services, YAPIFEN is active in a wide range of fields of civil engineering such as Transportation, Industrial, Building, and Hydraulic Structures. Since the time it was established, in both public and private investments at home and abroad, YAPIFEN has managed to win customers' praise and appreciation with its projects. One of YAPIFEN's basic principles is to value customers' expectations for the projects and, to fulfill these expectations with the experience and dedication of its team by adhering to engineering formation and ethics.

YAPIFEN Engineering has taken its place in BIM (Building Information Modeling) processes, which is the basis of digital transformation in the architecture, engineering, and construction (AEC) sectors and where project data is created and managed by 3-dimensional. We believe in the necessity of BIM processes, which have positive results in many areas such as interdisciplinary coordination, design management, clash check, planning, cost estimation, sustainability, and business management. As a requirement of this technology, YAPIFEN continues to invest in software and human resources every year.

YAPIFEN ENGINEERING

OUR STRATEGY

To be a pioneer engineering company by always **dreaming better** for the public good and **designing** long-lasting structures of the **future** and **daring to innovate** new solutions.

OUR COMMITMENT

To be a **sought-after business partner** with innovative, economical, ecological and human-oriented designs as well as **fast and best** engineering practices.

YAPIFEN
ENGINEERING

MAKE THE FUTURE VISIBLE

FROM EVERY ANGLE

www.yapifen.com.tr

YAPIFEN ENGINEERING

Yapıfen approaches every stage of the projects that are symbols of civilization such as bridges, dams, and factories with an engineering perspective making feasibility, aesthetic, technical, and economic comparisons and attempting to achieve the best result.

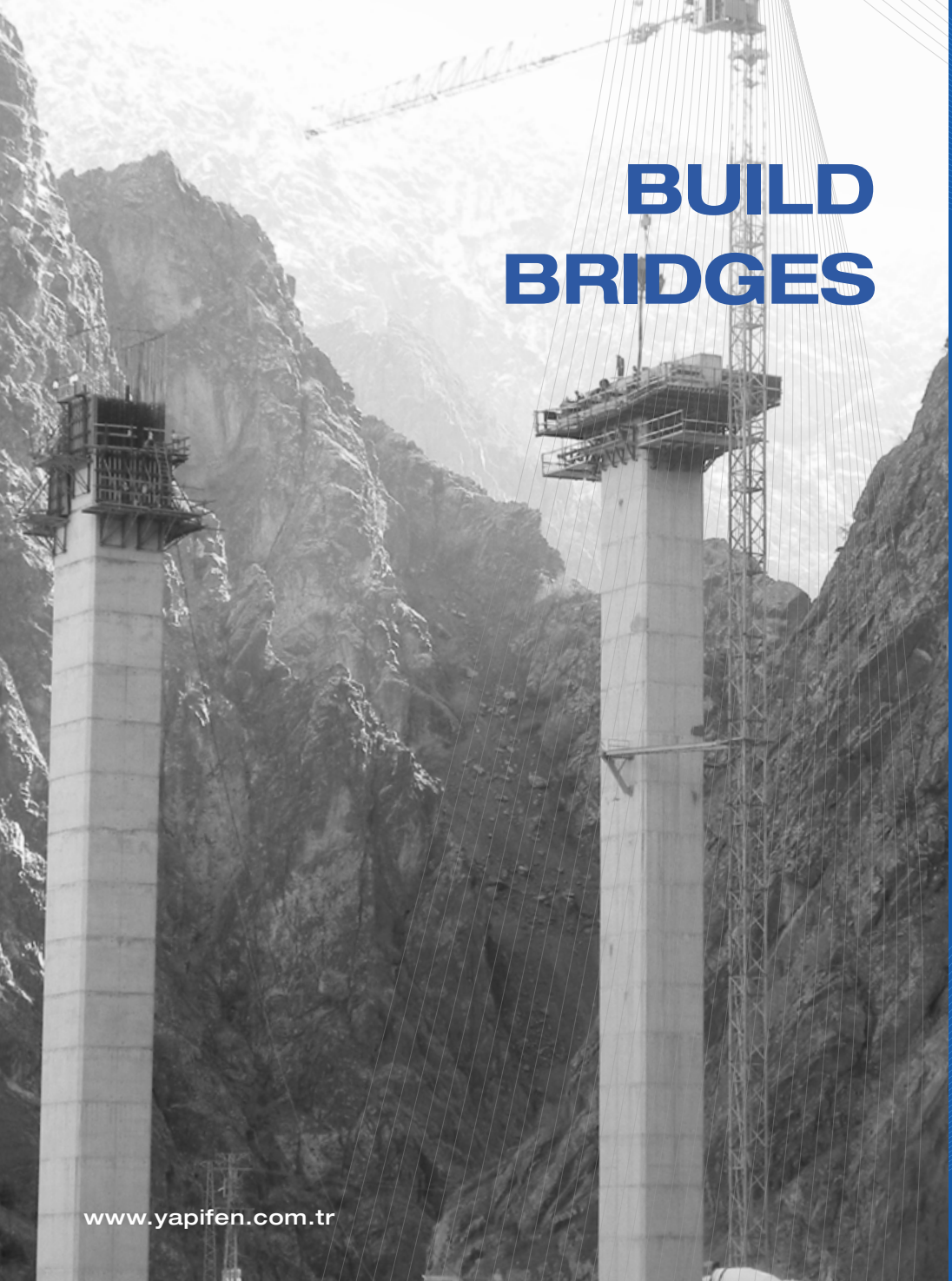
TRANSPORTATION PROJECTS

INDUSTRIAL PROJECTS

SUPERSTRUCTURE PROJECTS

HYDRAULICS AND ENERGY PROJECTS

www.yapifen.com.tr



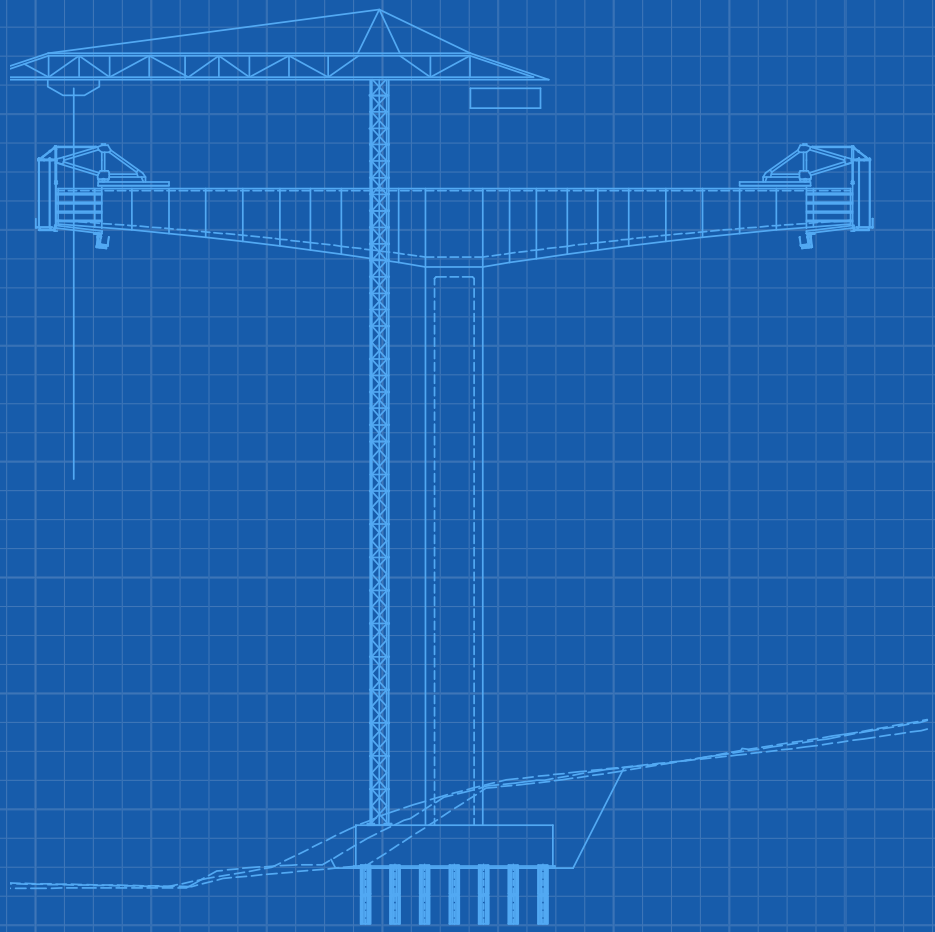
BUILD BRIDGES

www.yapifen.com.tr

YAPIFEN ENGINEERING

BETWEEN DESIGN & LIFE

YAPIFEN ENGINEERING



TRANSPORTATION PROJECTS

- CABLE SUPPORTED BRIDGES
- BALANCED CANTILEVER BRIDGES
- POST-TENSIONED BRIDGES
- PRESTRESSED BRIDGES
- RAILWAY BRIDGES
- INTERCHANGE STRUCTURES
- ROAD PROJECTS
- RAILWAY PROJECTS

Sırat on Fırat Bridge

"Candidate to be the longest pedestrian bridge in the World"

Summary

Erzincan Province, Kemaliye District hosts "Kemaliye International Outdoor Extreme Sports Festival" every year. Dark Canyon is among the world's leading canyons with a depth of approximately 500 m which is located within the borders of Kemaliye district. The bridge planned to be built in the Dark Canyon was named "Sırat on Fırat", which means "the holy straight path" on the Euphrates River.

Technical Details

- Bridge type has been determined as "Chain Suspension Bridge" type in accordance with harmony to nature, aesthetics, feasibility and economy criteria.
- Accordingly designed bridge has a width of 2.4 m (usage 1.3 m), a span of 712 m and a height of 465 m from the valley.

Project Name : Sırat on Fırat Bridge
Category : Cable Supported Bridges
Year : 2021
Client : Kemaliye District Governorship
End Client : General Directorate of Highways
Location : Kemaliye / Erzincan // Turkey

YAPIFEN ENGINEERING

Çayırhan Bridge

"Candidate to be the first inclined-footed cantilever bridge in Turkey"

Summary

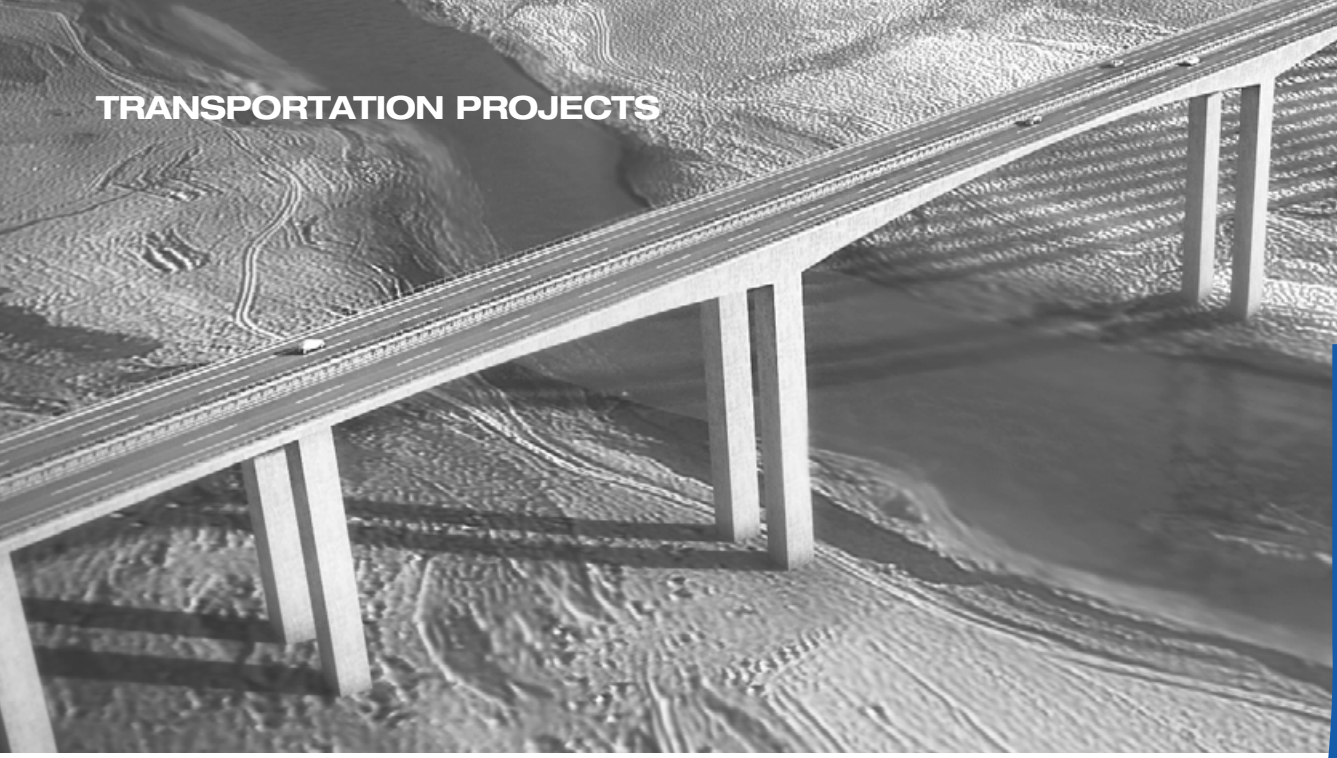
Çayırhan Bridge, which was designed within the scope of the Work "Çayırhan Bridge and Connection Tunnel Construction" tendered by the 4th Regional Directorate of Highways, will be located in Ankara Nallıhan Bird Paradise on the Beypazarı-Nallıhan Provincial Road.

Technical Details

- The design and construction documentation have been prepared for inclined-footed cantilever type bridge with a maximum span of 145 m, total length of 270 m and with post-tensioned reinforced concrete superstructure.
- The frame system formed from inclined legs built on a foundation on both sides of the span and the deck element connecting them constitute the basis of inclined-footed cantilever type bridge.
- Following the completion of triangular edge frame construction with the cast-in-situ scaffolding formwork method, the half span cantilever deck can be completed as sliced console by advancing the form traveller.

Project Name	**: Çayırhan Bridge**
Category	**: Post-Tensioned Bridges**
Year	**: 2017**
Client	**: Ankara Construction**
End Client	**: General Directorate of Highways**
Location	**: Beypazarı – Nallıhan Road / Ankara // Turkey**

YAPIFEN ENGINEERING



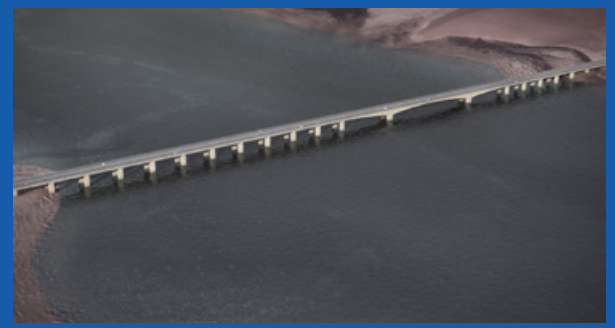
Hasankeyf-2 Bridge

Summary

Considering the terrain and geometric conditions of the bridge, which will be located on the Batman-Midyat State Highway, a mixed system type was preferred for the superstructure.

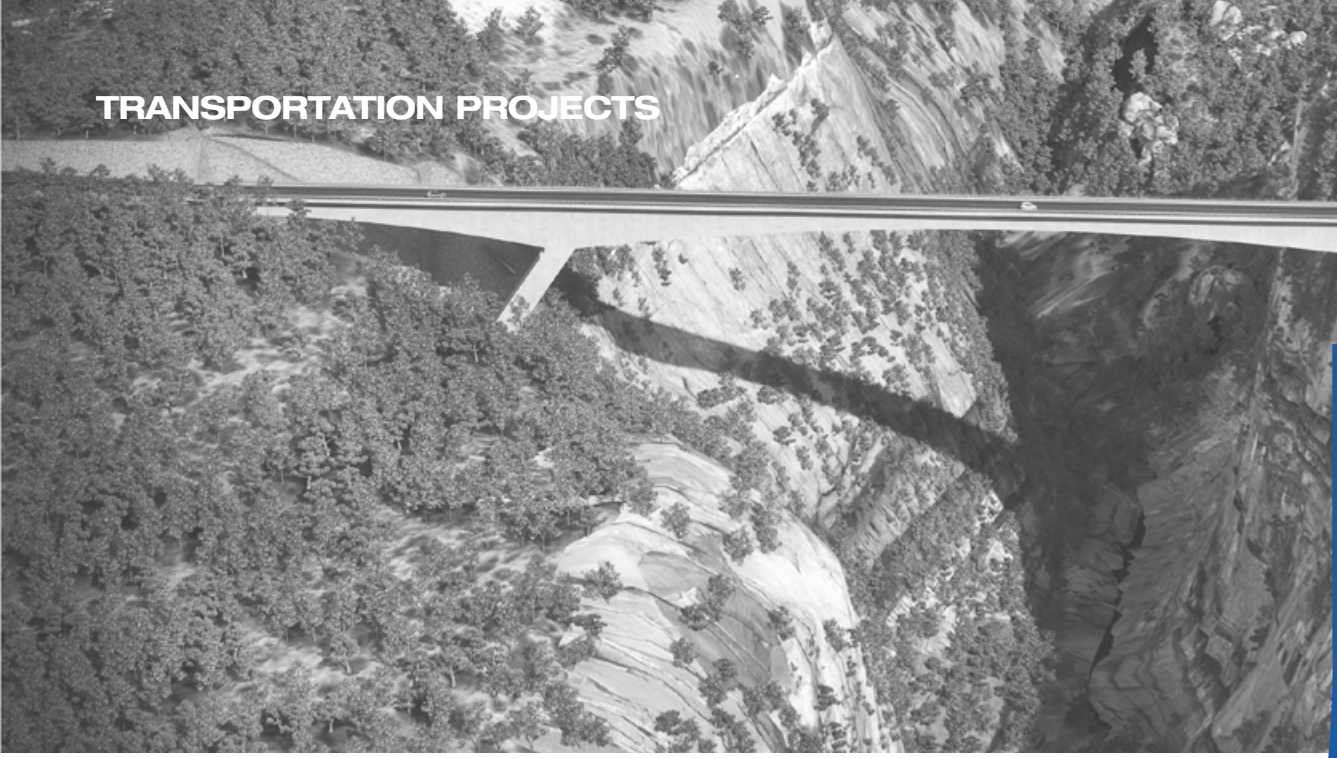
Technical Details

- The total length of bridge is 1083.4 m.
- The section where the Dicle River is located was crossed with the balanced cantilever method with a maximum span of 170 m and a superstructure of post-tensioned box-girder. In other sections, prestressed beams were used.



Project Name : Hasankeyf-2 Bridge
Category : Balanced Cantilever Bridges
Year : 2013
Client : 9th Regional Directorate of Highways
End Client : General Directorate of Highways
Location : Batman – Midyat Road Batman // Turkey

YAPIFEN ENGINEERING



Çamlıca Bridge

"Candidate to be the highest bridge from a valley in Turkey"

Summary

Within the scope of "Ermenek-Mut Road Çamlıca Bridge Consultancy Services Work", bridge design and construction documentation have been prepared. When completed, Çamlıca Bridge on Ermenek-Mut Road, will be the highest bridge of Turkey with its 196 meters height from the valley bottom.

Technical Details

- The inclined-footed cantilever type bridge has maximum span of 190 m, total length of 350 m.
- Superstructure of bridge is post-tensioned box girder type.

Project Name : Çamlıca Bridge
Category : Post-Tensioned Bridges
Year : 2015
Client : 3th Regional Directorate of Highways
End Client : General Directorate of Highways
Location : Ermenek – Mut Road Karaman // Turkey

YAPIFEN ENGINEERING

South Bridge on Seyhan River

Summary

Design and construction projects of two intersections on the east and west sides of the Seyhan River together with the 1.2 km connection road between these intersections and the South Bridge on this route have been prepared

Technical Details

- Within the scope of the work, the river crossing section of the 555.2 m long bridge is designed as post-tensioned type bridge. Approach bridges on both sides are designed as prestressed beam type.
- The post-tensioned section was determined as consisting two piers in the middle of the river. The middle span is 125 m and the side spans are 75 m, total with 3 spans, its total length is 275 m.
- As construction method; scaffolding and cast in situ method was preferred as the bridge deck was not high from the ground level and also to fulfill the request of the Administration.
- The superstructure bearing system of the bridge, which has a total width of 31 m, has been identified as a 3-cell box-sectioned beam/slab, which is expressed as "box girder" in the international literature.

Project Name : South Bridge on Seyhan River
Category : Post-Tensioned Bridges
Year : 2018
Client : Adana Metropolitan Municipality
End Client : Adana Metropolitan Municipality
Location : Seyhan River / Adana // Turkey

YAPIFEN ENGINEERING

Samsun Eastern Ring Road Bridge

"One of the longest bridges in Turkey"

Summary

Under the Work "Samsun Ring Road Project Engineering Services", design and construction documentation of one of Turkey's longest bridge with a total length of 2600 meters have been prepared.

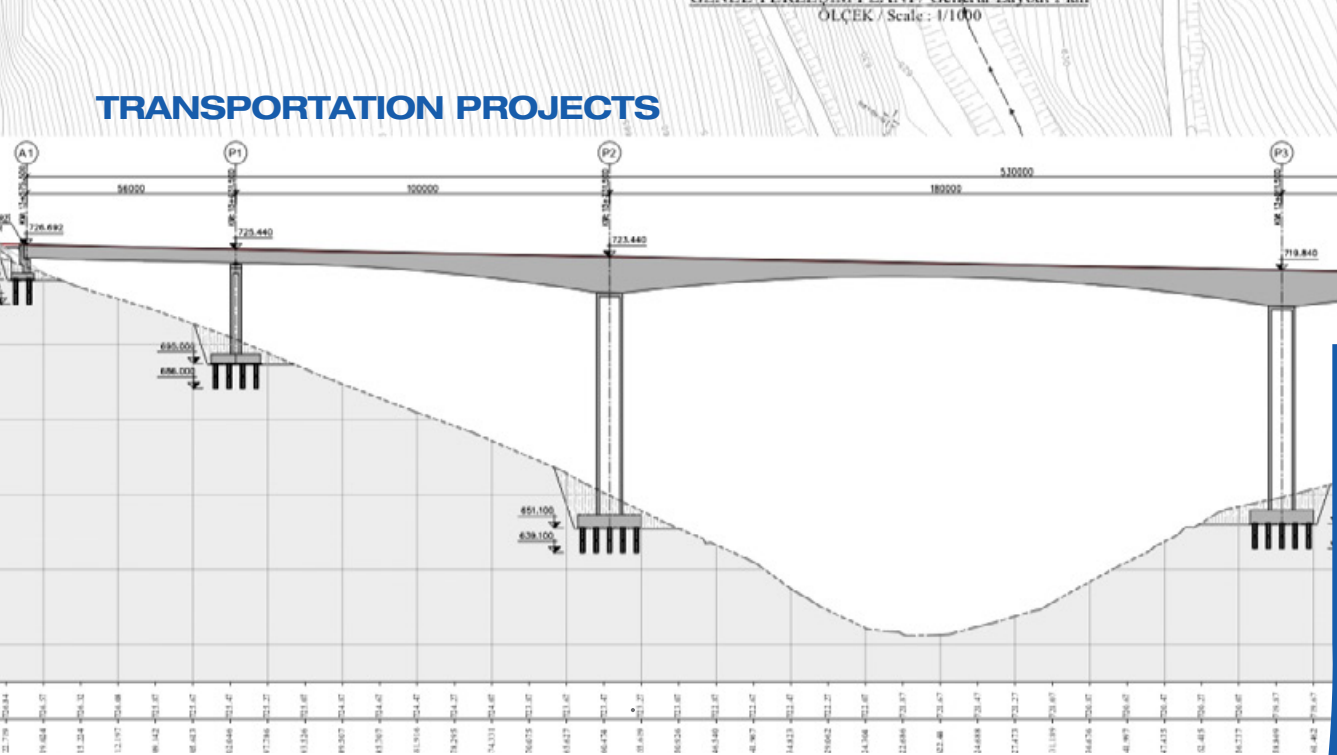
Technical Details:

The bridge has 71 spans with a maximum span of 37.5 m.

- The total bridge width is determined as 20.5 m considering the median strip, sidewalks and safety margins for four lane divided road bridge having two lanes for departures and arrivals each.
- In addition, within the scope of the work, 5 junctions' design and construction documents were prepared, including two level crossroads and 3 fly-over intersections.

Project Name	**: Samsun Eastern Ring Road Bridge**
Category	**: Prestressed Bridges**
Year	**: 2013**
Client	**: 7th Regional Directorate of Highways**
End Client	**: General Directorate of Highways**
Location	**: Samsun // Turkey**

YAPIFEN ENGINEERING



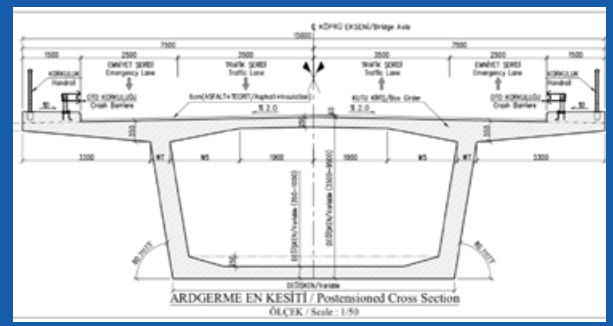
Menekşe Bridge

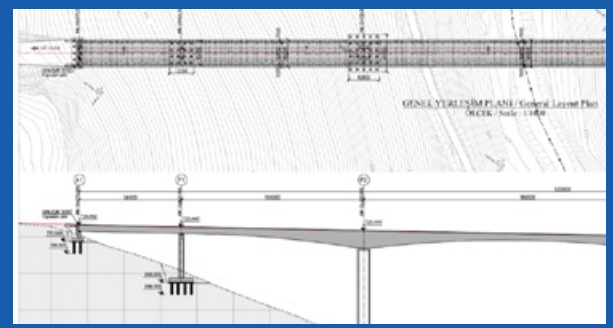
Summary

Under the Work "Samsun Ring Road Project Engineering Services", design and construction documentation of one of Turkey's longest bridge with a total length of 2600 meters have been prepared.

Technical Details:

- Considering the terrain and geometrical conditions, a mixed system with post-tensioned concrete deck system type was chosen for Menekşe Bridge.
- The bridge with a total length of 530 m has 6 spans.
- The first and last two spans will be constructed with the scaffolding formwork method, and the 380 m part, which is the sum of the 3 spans in the middle, will be constructed with the balanced cantilever method.
- The maximum span of the bridge is 180 m.





Project Name : Menekşe Bridge
Category : Balanced Cantilever Bridges
Year : 2018
Client : 5th Regional Directorate of Highways
End Client : General Directorate of Highways
Location : Gülnar - Aydıncık Road Mersin // Turkey

YAPIFEN ENGINEERING

Ortaköy Viaduct

"One of the first balanced cantilever bridges built in Turkey."

Summary

Under Petek Proje Inc. responsibility, within the scope of "Artvin Merkez Ortaköy Viaduct Project Preparation Work", balanced cantilever type bridge detail design projects have been prepared.

Technical Details

- The bridge's superstructure is post-tensioned concrete with a total span of 154.4 m.
- The bridge was built with the balanced cantilever method on a single pier with a height of 69 m from the upper level of the foundation, and the maximum deck height is 9 m.

Project Name : Ortaköy Viaduct
Category : Balanced Cantilever Bridges
Year : 2013
Client : Petek Proje Inc.
End Client : 26th Regional Directorate of State Hydraulic Works
Location : Artvin // Turkey

YAPIFEN ENGINEERING

Havuzlu Viaduct

"One of the bridges with the highest piers in Turkey."

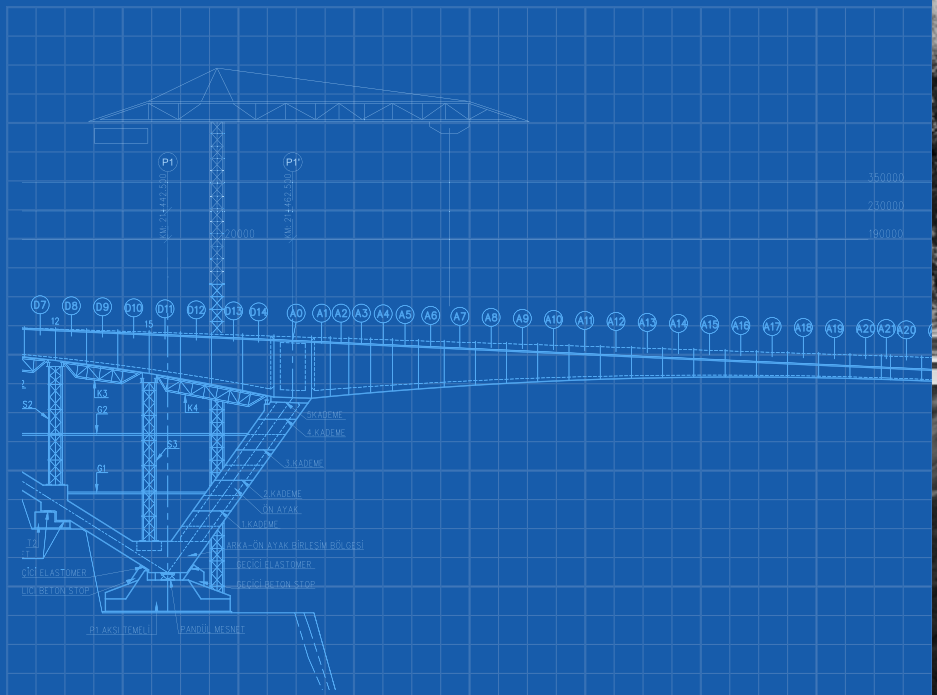
Summary

Bridge design construction projects were prepared within the scope of the work carried out by the contractor Doğuş Construction Inc. and general designer Teknik Engineering & Emre Özcan Engineering.

Technical Details:

- The bridge has 6 spans and is 249.4 m overall length.
- With 87.7 m height of the pier from the ground, it is one of the highest highway bridges in Turkey.

Project Name : Havuzlu Viaduct
Category : Prestressed Bridges
Year : 2012
Client : Doğuş Construction
End Client : General Directorate of Highways
Location : Artvin // Turkey



ENRICH CIVILIZATION VIA ENGINEERING

www.yapifen.com.tr

YAPIFEN ENGINEERING

FAST & BEST IS POSSIBLE

www.yapifen.com.tr

YAPIFEN ENGINEERING

INDUSTRIAL PROJECTS

YAPIFEN ENGINEERING

Arctic LNG 2

"One of the world's leading GBSs."

Summary

Arctic LNG 2 Project will be located on the Gydan peninsula of Yamalo Nenetsky Autonomous Region, located within the Arctic Circle of the Russian Federation. Within the scope of the project of which employer is Novatek; 3 LNG facilities, each with a capacity of 6.6 million tons per year, will be built under the contracting partnership between the Renaissance Heavy Industries (RHI), one of the Renaissance group companies, and the Italian energy company Saipem.

Technical Details

- GBSs (Gravity Based Structure) are large-scale reinforced concrete structures that sit on the sea bed. Their stability is provided by their own weight. Besides serving as an infrastructure for LNG units located at the top side, the main features of a GBS will be as follows

- Basic dimensions (WxLxH); 150 m x 300 m x 30 m
  - Nominal weight is about 350 thousand tons
  - The ability to be floated and submerged at sea

Project Name : Arctic LNG 2
Category : Industrial Structures
Year : Ongoing
Client : Renaissance Heavy Industries
End Client : PAO Novatek
Location : Murmansk & YNAO // Russia

YAPIFEN ENGINEERING

Amur Gas Processing Plant (AGPP)

Summary

Amur Natural Gas Processing Facility (AGPP) will be established by Gazprom on the Chinese border of the Eastern Siberia Region and will be Russia's largest facility and one of the world's largest gas processing facilities. At the facility, which will have a production capacity of 42 billion cubic meters per year when completed, valuable components can be processed for petrochemical and other industries besides natural gas. Processed natural gas is planned to be exported to China via the "Power of Siberia" pipeline.

Technical Details:

Yapıfen performed the services of Rusification and preparing construction design documentation in accordance with the Russian standards and specifications of 68 separate buildings from different types, functions and sizes within its scope of the project.

Project Name	**: Amur Gas Processing Plant (AGPP)**
Category	**: Industrial Structures**
Year	**: 2019**
Client	**: Renaissance Heavy Industries**
End Client	**: Gazprom**
Location	**: Svobodni / Amur Region // Russia**

YAPIFEN ENGINEERING

Mary Ammonium and Urea Plant

Summary

The investment value of the project, which was built in Mary, Turkmenistan for Turkmen Chemical State Institution, is 1 billion dollars. The factory, which is the largest industrial facility in the country, operates 400 thousand tons of ammonia and 640 thousand tons of urea per year.

Technical Details:

- Some of the structures designed within the scope of the work where reinforced concrete construction projects are prepared in accordance with local and international standards are as follows;

-Urea Plant
-Power and Steam Production Unit
-Water Treatment Unit
-Administration Building

Project Name	**: Mary Ammonium and Urea Plant**
Category	**: Industrial Structures**
Year	**: 2012**
Client	**: Renaissance Heavy Industries**
End Client	**: Turkmen Chemical State Institution**
Location	**: Mary // Turkmenistan**

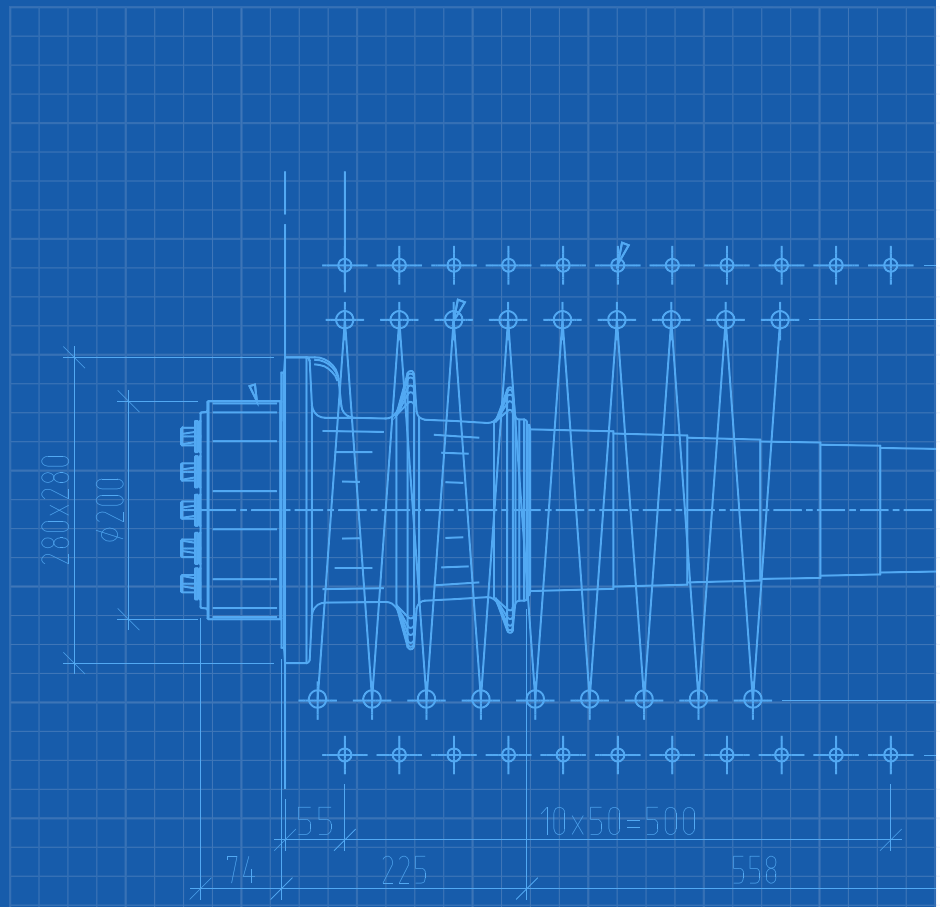
YAPIFEN
ENGINEERING

STRONG STRUCTURE

SUSTAINABLE FUTURE

www.yapifen.com.tr

YAPIFEN ENGINEERING



SUPERSTRUCTURE PROJECTS

- SHOPPING MALLS
- BUSINESS CENTERS
- AIRPORT STRUCTURES
- HOUSING PROJECTS
- HEALTH SERVICE BUILDINGS
- EDUCATIONAL BUILDINGS
- ADMINISTRATIVE BUILDINGS
- STEEL STRUCTURES

YAPIFEN ENGINEERING

Ligovsky Galeria Shopping Mall

Summary

Galeria Shopping Center is located in the city center of Saint Petersburg, at the intersection of Nevsky and Ligovsky Streets. The shopping center, which has approximately 300 stores and 10 movie theaters, has a parking lot capacity of 1200 vehicles.

Technical Details:

- Within the scope of the project, reinforced concrete detail design projects of Sector 3 and Sector 4 structures with a total size of 32.000 m2 were prepared.
- The design was made according to Russian standards and specifications.

Project Name : Ligovsky Galeria Shopping Mall
Category : Shopping Malls
Year : 2009
Client : Renaissance Construction
End Client : Morgan Stanley
Location : St. Petersburg // Russia

YAPIFEN ENGINEERING

Tobolsk Airport

Summary

The construction of the airport, which was built in the city of Tobolsk in the Tyumen Region of Russia, was completed in 2021 and is planned to be put into operation in the same year.

Technical Details

Within the scope of work, detail design projects have been prepared in accordance with the Russian standards and specifications for structures with 12 different types, functions, and sizes. In addition, the infrastructure facilities within the scope of work were also designed by Yapıfen.

- Some of the structures in our scope are as follows;
  -Terminal Building
  -Modular Service Building
  -Vehicle Warehouse
  -Treatment Facility
  -Plumbing Building
  -Training Tower

Project Name : Tobolsk Airport
Category : Airport Structures
Year : 2021
Client : Renaissance Heavy Industries
End Client : Sibur Holding
Location : Tobolsk / Tyumen Region // Russia

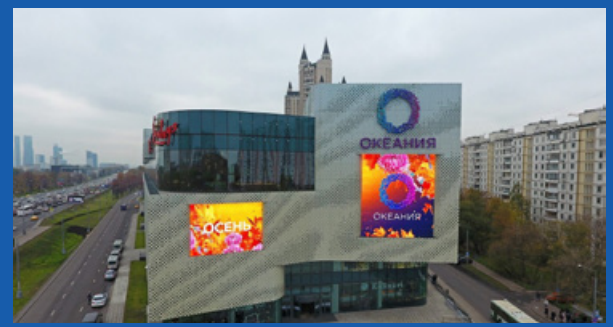
Oceania Shopping and Entertainment Center

Summary

·Oceania Shopping and Entertainment Center is located on Slavyansky Boulevard in Moscow. The complex, commissioned in 2015, has a total area of 140.000 square meters and a car park with a capacity of 1100 vehicles.

Technical Details:

- There are more than 200 stores in the shopping center, which includes a large supermarket, electronics stores, retail shops, cafes and restaurants of different concepts.
- Within the scope of the project, structural design and construction documentation of 4 sectors (C3, C4, C6, C8) with a total size of 60.000 square meters were prepared. The design was made according to Russian standards and specifications.



Project Name : **Oceania Shopping and Entertainment Center**
Category : **Shopping Malls**
Year : **2014**
Client : **Renaissance Construction**
End Client : **TPS Group**
Location : **Moscow // Russia**

YAPIFEN ENGINEERING

Aviapark Shopping Mall

"The largest shopping mall in Europe."

Summary

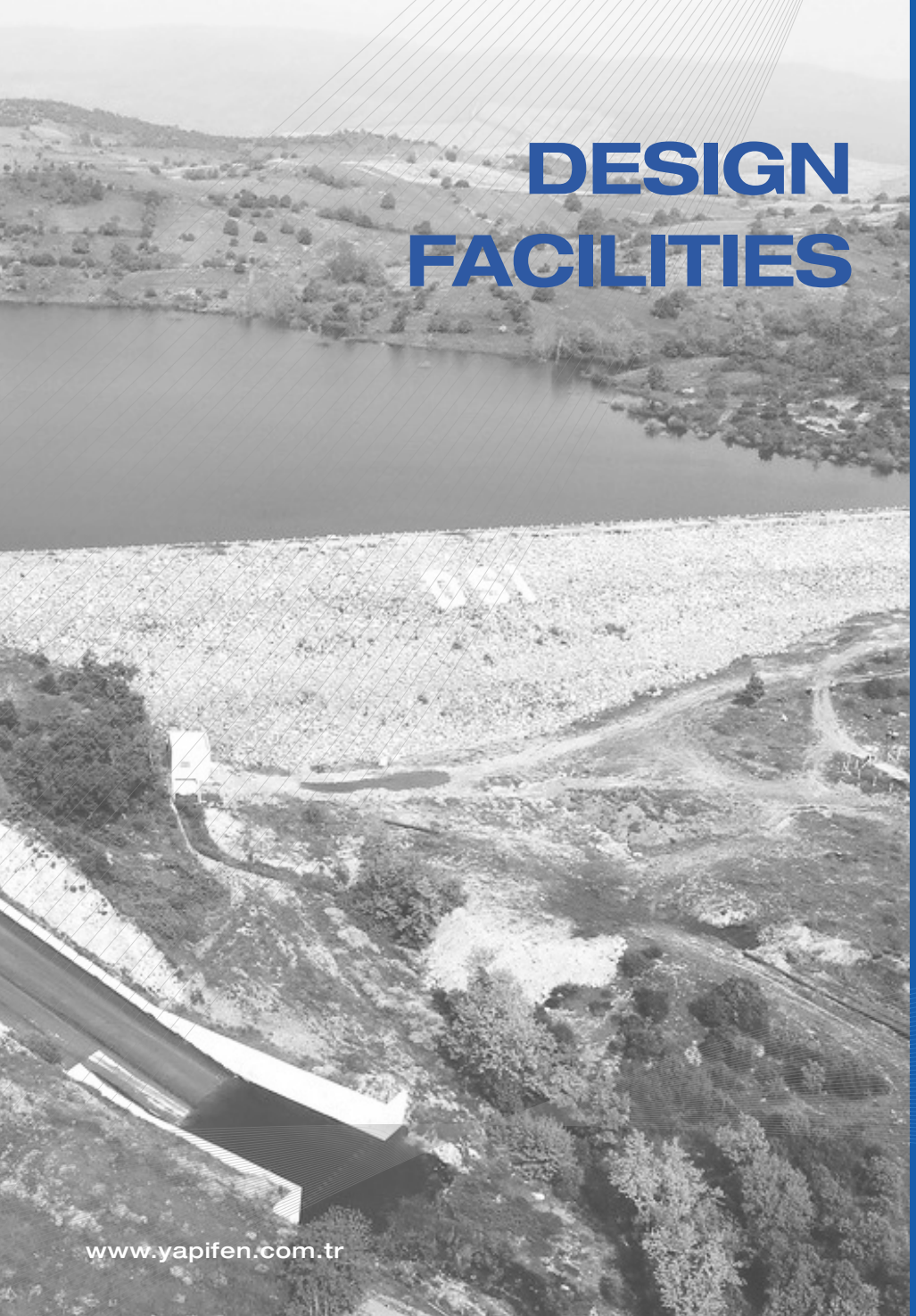
Aviapark Shopping Center is located on the Hodynskiy Boulevard in the Khoroshyovsky District of Moscow. The complex, which was opened in December 2014, is the largest shopping center in Europe with a total area of 465.000 square meters and a leasable area of 23.000 square meters.

Technical Details

The center, which hosts more than 350 stores, many of which are distinguished brands, has a total of 6 floors.

- The highest cylindrical aquarium in the world, located in the central courtyard with a depth of 23 meters, catches the attention of its guests with its resemblance to the Red Sea.
- Reinforced concrete detail design projects of 14 sectors (C1, C9, C10, C11, C12, C18, C19, C20, C21, C22, C23, C24, C25, C26) were prepared within the scope of the project. The design was made according to Russian standards and specifications.

Project Name : Aviapark Shopping Mall
Category : Shopping Malls
Year : 2013
Client : Renaissance Construction
End Client : AMMA Development
Location : Moscow // Russia



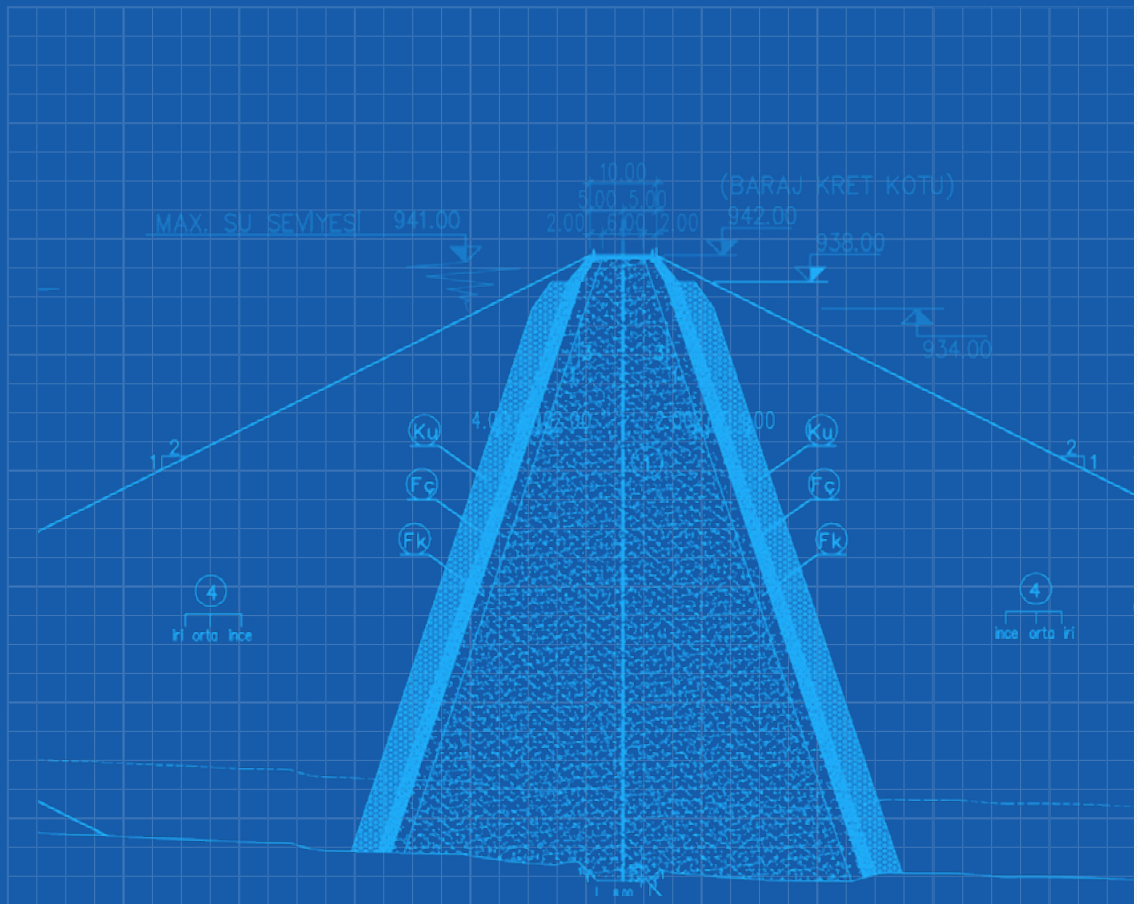
DESIGN FACILITIES

www.yapifen.com.tr

YAPIFEN ENGINEERING

FOR SUSTAINABLE RESOURCES

YAPIFEN
ENGINEERING



HYDRAULICS AND ENERGY PROJECTS

PLANNING PROJECTS

FEASIBILITY PROJECTS

RENEWAL PROJECTS

DAM PROJECTS

SMALL DAM PROJECTS

REGULATOR PROJECTS

IRRIGATION PROJECTS

HYDROELECTRIC POWER PLANT

YAPIFEN ENGINEERING

Odabaşı and Esenlik Small Dams

Summary

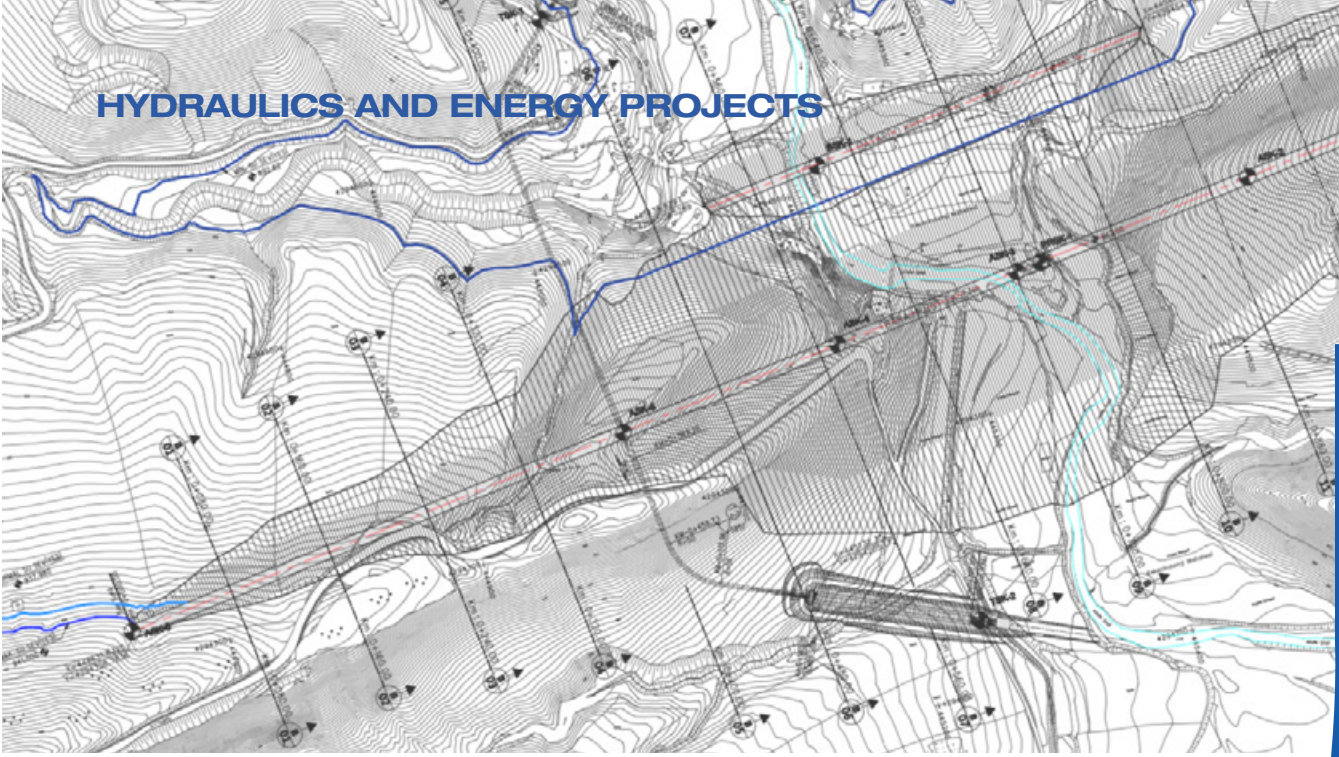
Esenlik Small Dam is located on the Aynato Stream, approximately 800 m from the Esenlik Village of Alacakaya District of Elazığ Province. Odabaşı Small Dam is located on the Beşik Stream, within the borders of Odabaşı region of Baskil District, 40 km from Elazığ Province. Within the scope of the work, a planning report was prepared, afterwards small dam detailed design projects and irrigation network projects were prepared.

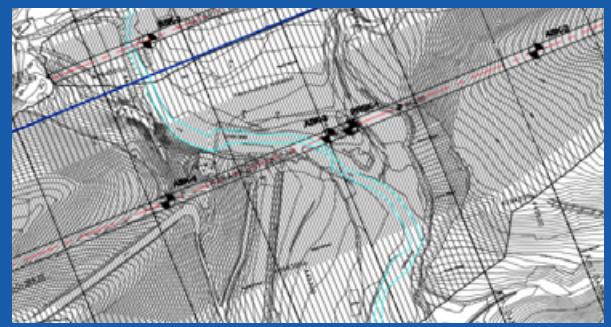
Technical Details

- Esenlik Small Dam body is of clay core rock fill type, the body height is 36.6 m from the foundation, the crest width is 10 m and the crest length is 141.8 m.
- Odabaşı Small Dam body is of clay core rock fill type, the body height is 52.3 m from the foundation, the crest width is 10 m and the crest length is 350 m.
- Upon completion of the project, 173 and 535 hectares of agricultural land will be irrigated, respectively.

Project Name : **Odabaşı and Esenlik Small Dams**
Category : **Planning & Small Dam Projects**
Year : **2013**
Client : **9th Regional Directorate of State Hydraulic Works**
End Client : **9th Regional Directorate of State Hydraulic Works**
Location : **Baskil & Alacakaya Elazığ // Turkey**

YAPIFEN ENGINEERING





Aliağa Dam and Irrigation Facilities

Summary

Aliağa Dam axis location is planned on Aliağa Stream, northeast of İsaköy, 9.3 km east of Arguvan District Center of Malatya Province.

Technical Details

- With the realization of the dam with a height of 82 m from the thalweg, a crest length of 1173 m, and a storage volume of 60 million m3, irrigation will be provided with modern systems on a gross 8330 ha of agricultural land.

Project Name : **Aliağa Dam and Irrigation Facilities**
Category : **Planning Projects**
Year : **Ongoing**
Client : **9th Regional Directorate of State Hydraulic Works**
End Client : **General Directorate of State Hydraulic Works**
Location : **Arguvan / Malatya // Turkey**

WHERE WE ARE

WHERE WE ARE

Turkey

Russia

Poland

Turkmenistan

Uzbekistan

Libya

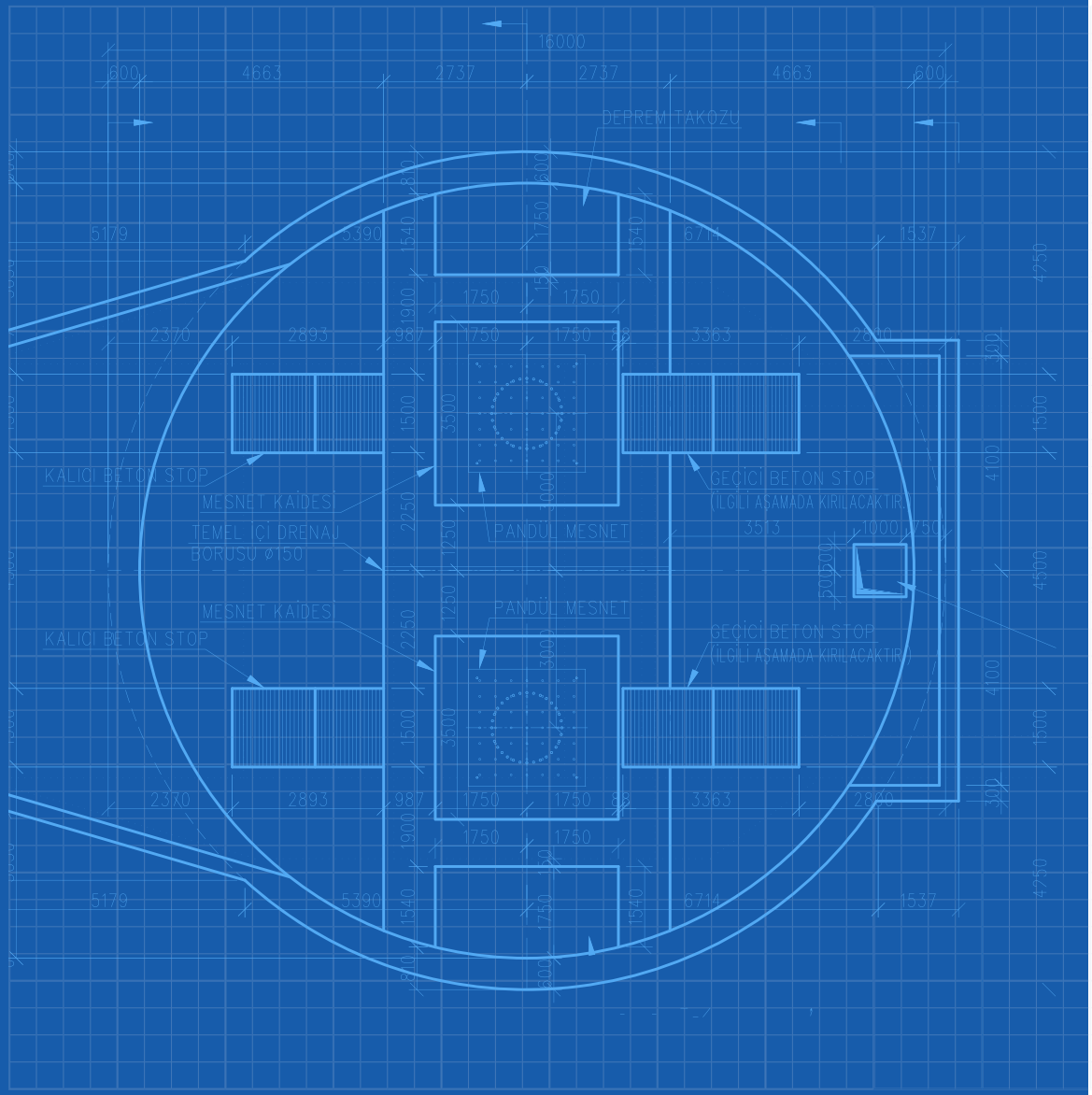
www.yapifen.com.tr

www.yapifen.com.tr

YAPIFEN ENGINEERING

REACH BEYOND BORDERS

YAPIFEN
ENGINEERING



CONTACT

+90 (312) 417 38 03
+90 (312) 417 38 04
yapifen@yapifen.com.tr
www.yapifen.com.tr
company/yapifen
Ufuk Üniversitesi Caddesi
Ambrosia İş Merkezi No: 18/50
06520 Çukurambar, Ankara
Turkey

www.yapifen.com.tr