



**ENGINEERING AND
CONSULTANCY LIMITED**



7 TEPE-7TÜNEL PROJECT, KAĞITHANE EXIT INTERCHANGE PROJECT - ISTANBUL March-2009



7 TEPE - 7TÜNEL PROJECT KAĞITHANE EXIT INTERCHANGE PROJECT - ISTANBUL March-2009

Bagdat Ave. Adatepe İş Mrk. No:276/21-22 Maltepe/ISTANBUL www.eproeng.com
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**ENGINEERING AND
CONSULTANCY LIMITED**

ABOUT US

Our company has been active since 2004 under the name of **EPRO ENGINEERING and CONSULTANCY LIMITED.**

OUR MISSION:

As **EPRO Engineering and Consultancy**, we take it as our mission to provide systematic technical design of mainly local and urban highways, intersections, bridges, viaducts and any other engineering project in transport industry with our experienced personnel using internationally accepted, standardized, modern and scientific methods and equipment.

OUR VISION:

It is our main objective to deliver immaculate and high-quality engineering expertise to every technical design project in a reliable manner, **using state of the art techniques and approaches that are not only practical but also economically viable.**

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**ENGINEERING AND
CONSULTANCY LIMITED**

The scope of our establishment is;

TECHNICAL DESIGN OF ENGINEERING PROJECTS.

Since the day it was founded, EPRO ENGINEERING and CONSULTANCY, with its expert engineering team, has led technical design projects of numerous prominent highways, freeways, intersections, bridges and viaducts.

The techniques and methods of the modern era are closely followed and utilized in our company. To ensure the quality of our service, our team is built from engineers and technical staff who are experts in their field. The profiles of our key personnel can be found in the section **Key Staff.**

When the undertaken projects necessitate, we temporarily deploy talented and prominent engineers outside of our firm to benefit from their specific expertise.

We closely follow the modern business and management trends and take it as our duty to provide engineering design solutions that are client satisfaction oriented. For that purpose, we implemented “**ISO 9001:2008 - Quality management systems**” and within this scope we have **TSE EN ISO 9001:2008** certificate since **16.08.2009.**

In parallel with our vision, we always strive for excellence in providing leading-edge Engineering Designs and Projects, seeking to improve each passing day.

**EPRO ENGINEERING and
CONSULTANCY 2018**

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S E R T İ F İ K A



UKS ULUSLARARASI
KALİTE SİSTEMLERİ VE
BELGELENDİRME
LTD. ŞTİ.

Bu Belge ile

**Epro Mühendislik Bilgi İşlem İnşaat Ve Turizm
Danışmanlık San. Ve Tic. Ltd. Şti.**

Feyzullah Mh. Bağdat Cd. Reha Apt. No:86/12
Maltepe / İSTANBUL
TÜRKİYE

Firmasının

TS EN ISO 9001:2008

*şartlarına uygun bir Kalite Yönetim Sistemine
aşağıda belirtilen kapsam dahilinde sahip olduğunu onaylar*

Her Türlü Proje Mimarlık ve Mühendislik Hizmetleri

EA/NACE Kodu : 34 / 74.2

Belge No : K-1656

Belge Tarihi : 19 Ağustos 2009

Geçerlilik Tarihi : 16 Ağustos 2012

Bu belge firmanın UKS'nin Belgelendirme Kurallarına uyduğu sürece geçerlidir.




Genel Müdür



BELGENİN GEÇERLİLİK SÜRESİNİN DEVAMI İLE İLGİLİ BİLGİ İÇİN AŞAĞIDAKİ TELEFON VE MAİL ADRESİYLE İRTİBAT KURUNUZ
http://www.ukselendirmek.com.tr E Mail : info@ukselendirmek.com.tr Telefon : +90.216.330 45 77 Pbx

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QUALITY POLICY

As part of our quality policy, we strive, together with our entire team, to fulfil the ISO 9001:2008 - Quality Management System conditions and to improve our management and service quality by careful evaluation of feedback from our clients. On our journey towards persistent improvement, we relentlessly evaluate our performance to ensure the satisfaction of our clients.

EPRO Engineering and Consultancy Limited

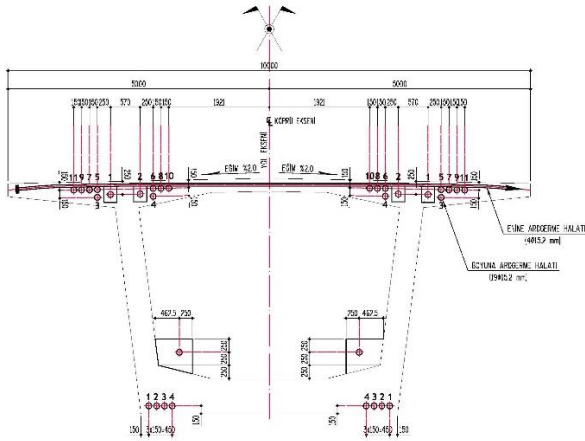
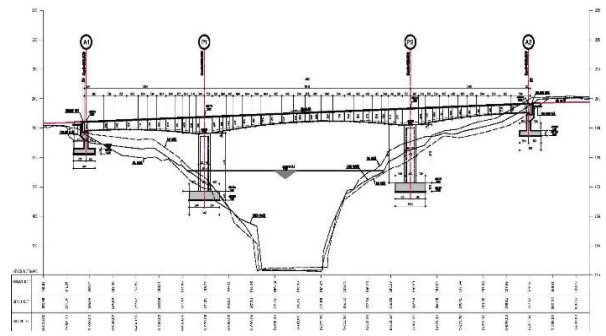
ALANYA DİM BROOK BRIDGE

Administration: ANTALYA METROPOLITAN
MUNICIPALITY

Employer: ANTALYA METROPOLITAN
MUNICIPALITY

The bridge was constructed to connect the small towns located in reservoir area of Dim Dam, which stands inside Antalya's Alanya district. The bridge was designed as a balanced cantilever consisting of 3 spans, with its 89 m middle span and 51 m side spans the bridge has a total length of 192 m. The width of the bridge is 10 m.

The post tensioned bridge was constructed 55 m above water level.





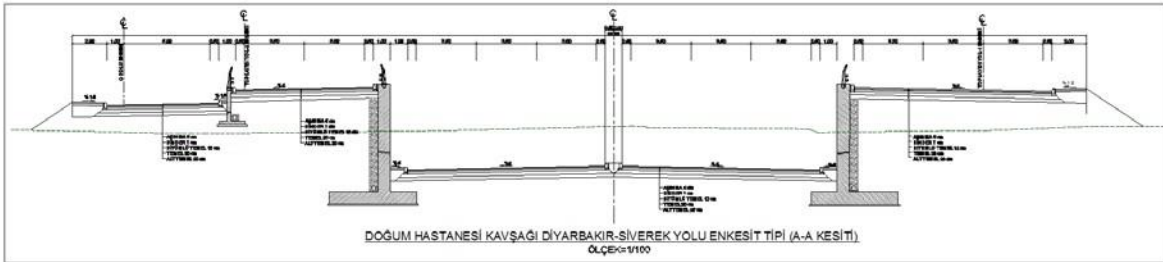
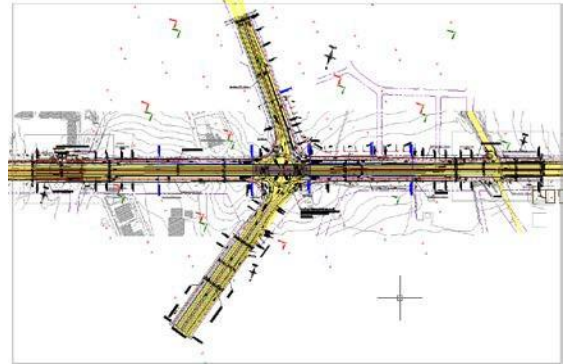
**ENGINEERING AND
CONSULTANCY LIMITED**

THE DESIGN AND REVISION WORK OF DİYARBAKIR-ŞANLIURFA STATE HIGHWAY BETWEEN KM=1+604-6+504 AND 6 INTERCHANGES

Administration : GENERAL DIRECTORATE OF HIGHWAYS (K.G.M.)
Employer : K.G.M. 9. REGIONAL DIRECTORATE

Project route includes between Diyarbakır-Şanlıurfa State Highway's Km=0+000 Seyrantepe Intersection and Km=7+200. A plan was developed implementing collector roads on both sides of the road to disconnect urban and intercity roads.

The design projects of 6 interchanges with different elevations which were planned to be built on Diyarbakır-Şanlıurfa State Highway were undertaken. These interchanges were designed in such a way that the implementation of rail systems according to DUAP specifications were made possible.



The Interchanges with Completed Design Projects

1. Parkorman Interchange
2. Kantar Interchange
3. Yenihal-1 Interchange
4. Yenihal-2 Interchange
5. Doğum Hastanesi Interchange
6. Otogar Interchange

The following services were completed within the scope of the project in question:

- Bridge and Intersection Application Drawings
- Surveying Services
- Typical Sections and Detailed Drawings
- Plan and Profile View Technical Drawings
- Application Plans and Drainage Projects
- Ground Investigation Services

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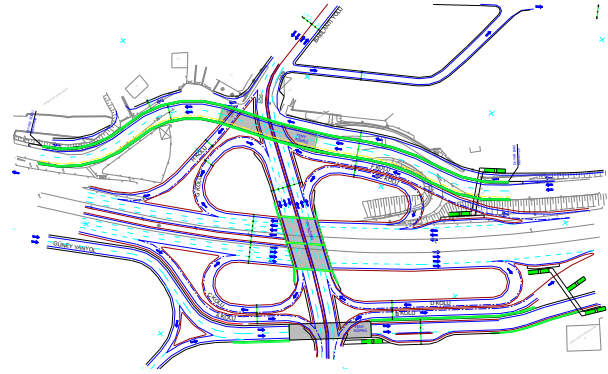
E5 GÜLSUYU INTERCHANGE

Administration: İstanbul Metropolitan Municipality Civil Works Department
Infrastructure Coordinating Directorate

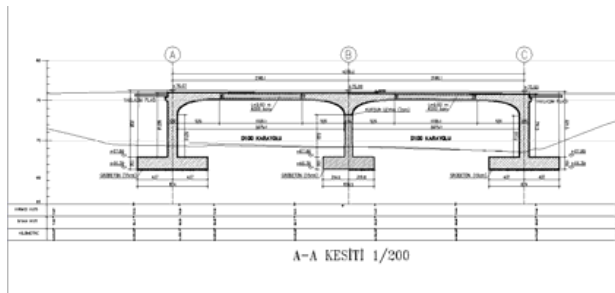
Employer: AA GRUP A.Ş.

It is located between Maltepe and Cevizli Interchanges.

The Intersection is a four-way cloverleaf type and it connects E5 highway's Gülsuyu and Coast. The project takes place on approximately 1150m² on E5 highway.



In addition, 2 underpasses were built on North and South bypass roads to ensure uninterrupted traffic flow. Both underpasses are approximately 1900m². The entrance and exit of underpasses were formed by sheet pile walls.



The following services were completed within the scope of the project in question:

- Typical Sections and Detailed Drawings
- Plan and Profile View Technical Drawings
- Application Plans
- Cross-Sections
- Intersection Projects
- Drainage Projects
- Guardrail Projects
- Bridge and other Structure Projects

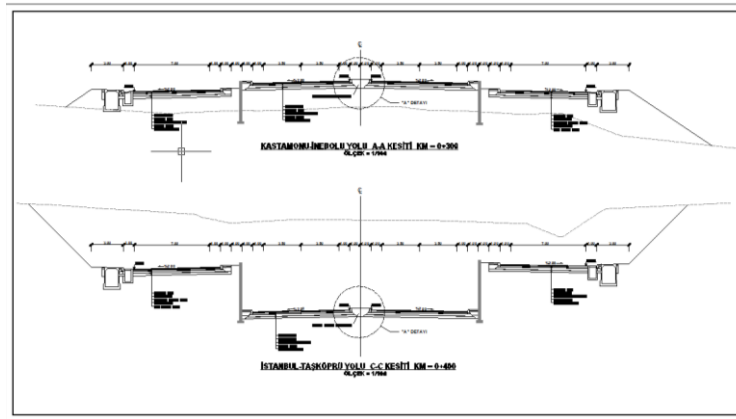


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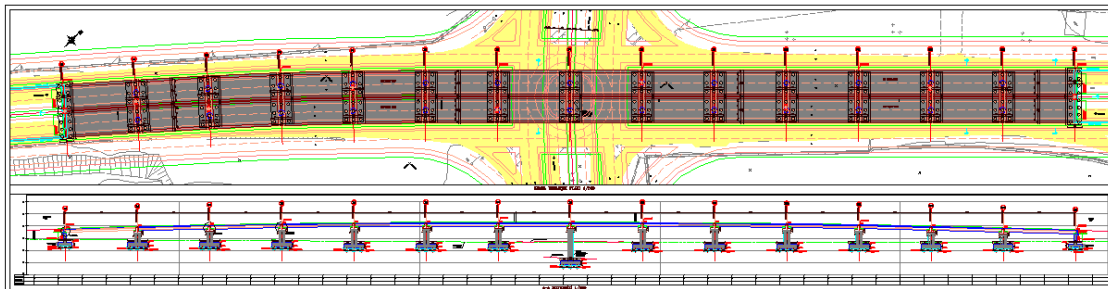
**THE DRAINAGE, TECHNICAL DRAWING AND BRIDGE DESIGN WORKS
AND SERVICES OF THE INTERSECTION ON KASTAMONU NORTHERN
RINGROAD**

Administration : GENERAL DIRECTORATE OF HIGHWAYS (K.G.M.)
Employer : K.G.M. 15.
REGIONAL DIRECTORATE

The project involves the transformation of the Sunta Interchange, a at grade junction in the city center, to a bridge crossing with 3 levels. The design and the construction is completed.



Intersection Typical Sections



Bridge General Layout

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SAMSUN WEST RING ROAD SURVEYING, PROJECT AND ENGINEERING SERVICES

Administration : GENERAL DIRECTORATE OF HIGHWAYS (K.G.M.)
Employer : K.G.M. 7.
REGIONAL DIRECTORATE

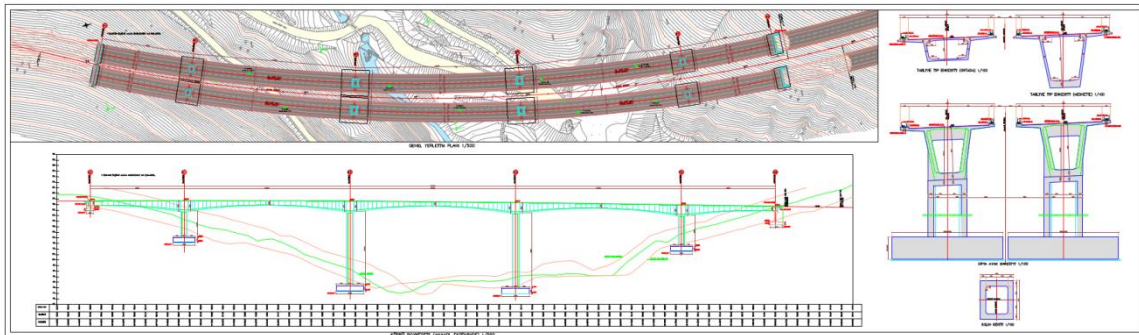
On Samsun West Ring Road project, which is approximately 16 Km, application projects of 6 interchanges, 1 at grade junction, 2 duplex tunnels, 3 viaducts and 3 underpasses were prepared. The Kocadere Viaduct on Km=8+200 is designed as balanced cantilever.

The following services were completed within the scope of the project in question:

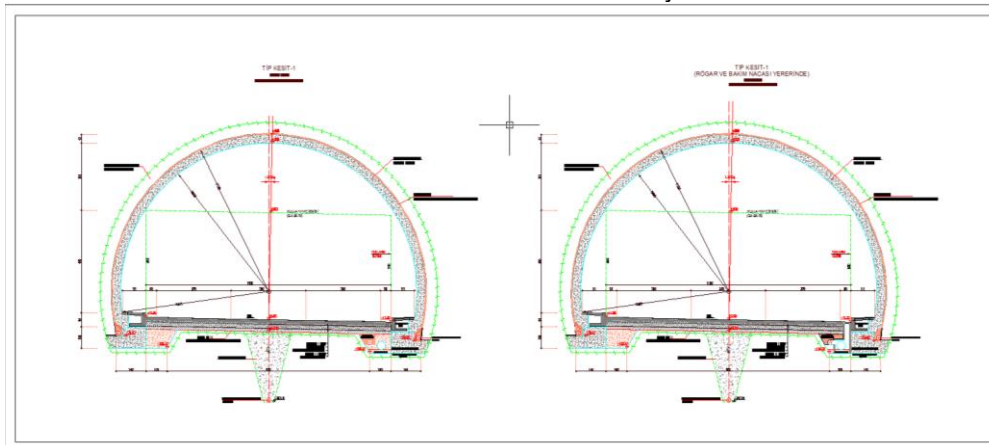
- Bridge and Intersection Application Projects
- Ground Investigation Services
- Tunnel Projects
- Typical Sections and Detailed Drawings
- Plan-Profile View Technical Drawings
- Application Plans
- Drainage Projects
- Traffic Marking and Guardrail Projects
- Balancing of Earthwork Mass Diagram



Ring Road Km:0+000 Intersection



Balanced Cantilever General Layout Plan



Duplex Tube Tunnel Typical Section

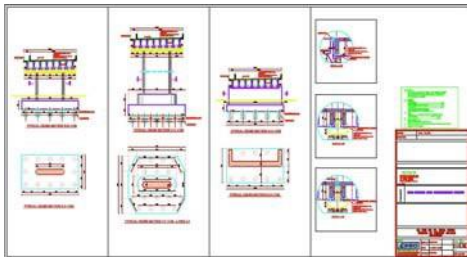
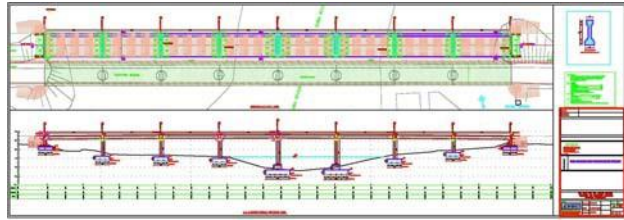


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UJAR-YEVLAKH ROAD REHABILITATION PROJECT-KURA RIVER BRIDGE

Administration : AZER KÖPRÜ,
AZERBAIJAN
Employer : POLAT
ROAD CONSTRUCTION A.Ş.

Within the scope of the ongoing “UJAR-YEVLAKH” road rehabilitation project in Azerbaijan, application project of an 8 spanned post-tensioned bridge was undertaken.



The following services were completed within the scope of the project in question:

- Bridge and Intersection Application Drawings

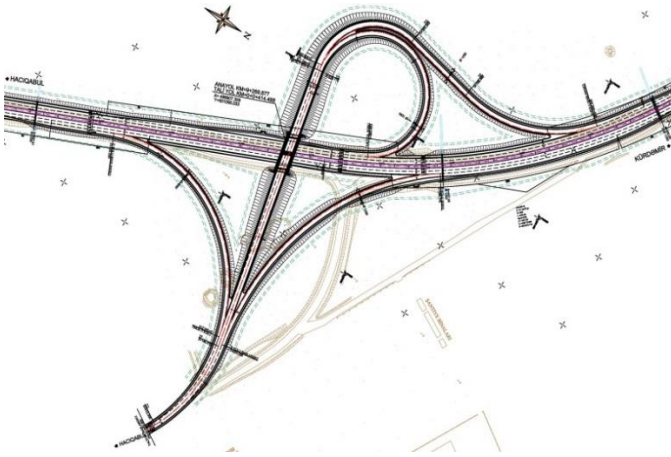


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HACIKABÜL - KURDEMİR ROAD CONSTRUCTION

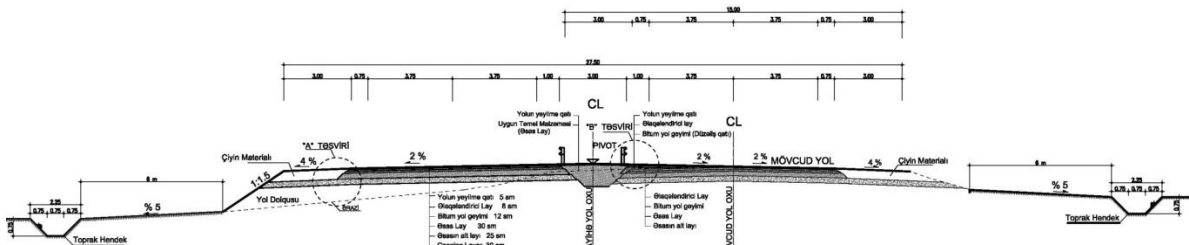
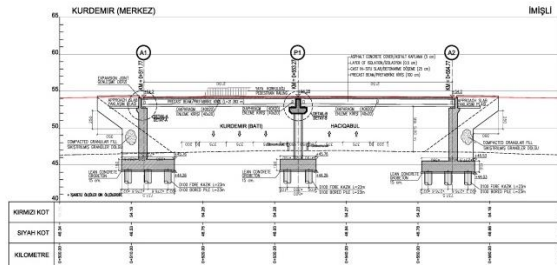
Administration : AZERYOL,
AZERBAIJAN

Employer :
POLAT ROAD CONSTRUCTION
A.Ş.



It includes application projects of the 80 Km route between Azerbaijan's Hacikabul and Kurdemir provinces.

On the route there are 5 interchanges.



ESAS YOLUN TİPKİ KƏSİYİ Ö:1/100

The following services were completed within the scope of the project in question:

- Bridge Application Projects
- Road Application Projects
- Intersection Application Projects

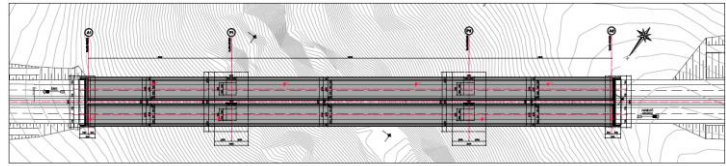


**ENGINEERING AND
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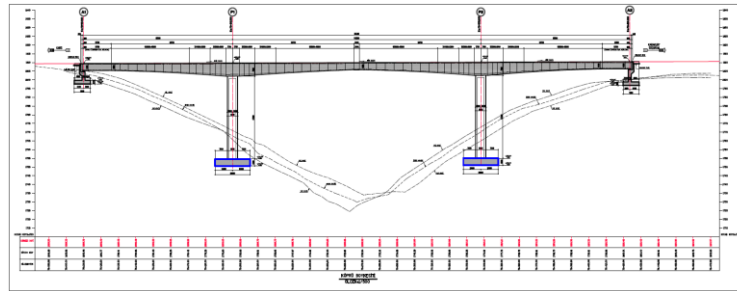
**HORASAN-KARAKURT-SARIKAMIŞ DIVIDED ROAD (Km:23+000-53+200)
SURVEYING AND DESIGN ENGINEERING SERVICES**

Administration : GENERAL DIRECTORATE OF HIGHWAYS (K.G.M.)
Employer : K.G.M. 18. REGIONAL DIRECTORATE

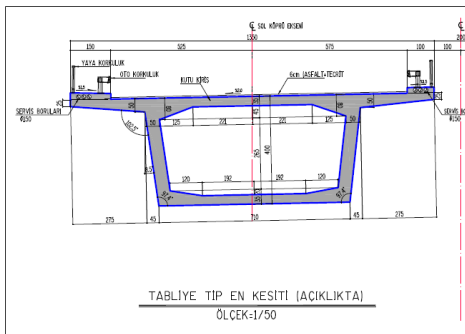
The 22 Km part of the route between Horasan-Karakurt was designed. Within the scope of the project there are 5 bridges and 5 interchanges. 3 of the bridges were designed using prestressed prefabricated beams and the remaining 2 were designed by balanced cantilever method using post-tensioning techniques. The bridge spans are $L=145m$ and pier heights are $H=47.5m$.



Plan



Kesit



Cross-Section

The following services were completed within the scope of the project in question:

- Bridge and Intersection Application Projects
- Typical Sections and Detailed Drawings
- Plan-Profile View Technical Drawings
- Application Plans and Drainage Projects
- Ground Investigation Services

(Boring, Geological-Geotechnical Reports and Superstructure Reports)



**ENGINEERING AND
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İPSALA - MALKARA STATE HIGHWAY SURVEYING AND DESIGN ENGINEERING SERVICES

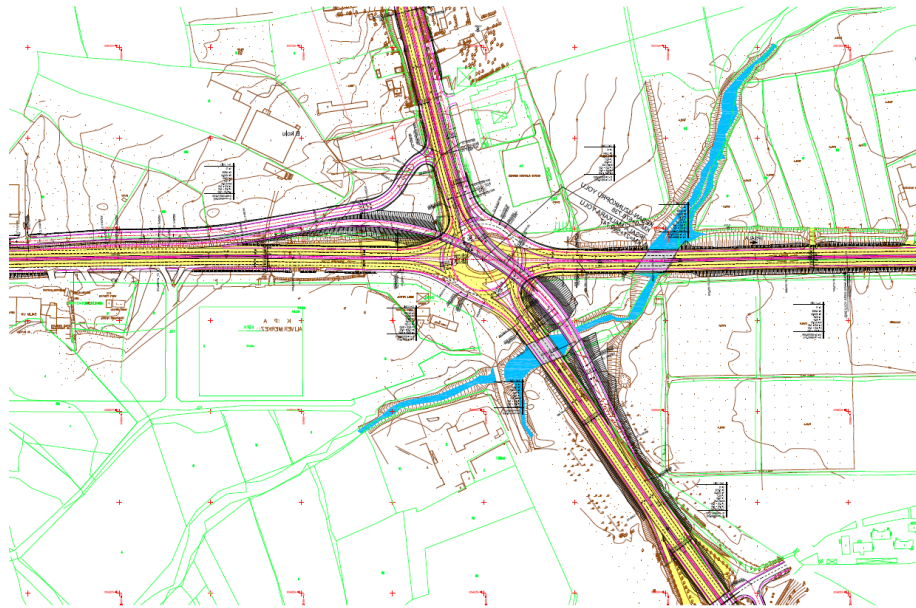
Administration : GENERAL DIRECTORATE OF HIGHWAYS (K.G.M.)
Employer : K.G.M. 1. REGIONAL DIRECTORATE

On Ipsala-Malkara State Highway, 50 Km of divided road and 20 at grade and flyover junctions were designed. Visuals showing the Keşan Interchange and samples from the project are provided.



The following services were completed within the scope of the project in question:

- Bridge and Intersection Application Projects
- Typical Sections and Detailed Drawings
- Plan-Profile View Technical Drawings
- Application Plans and Drainage Projects





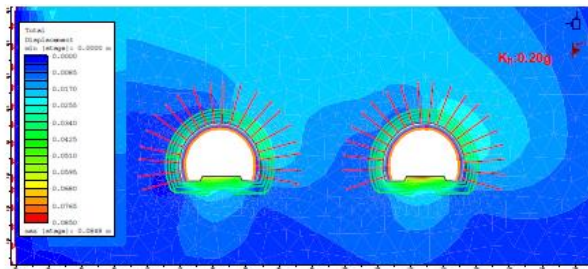
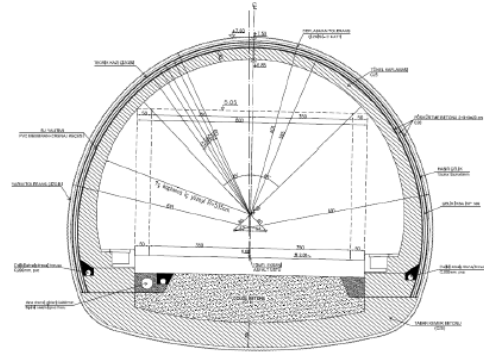
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KAŞ-KALKAN STATE HIGHWAY, ÇUKURBAĞ TUNNEL (BETWEEN KM: 68+540-68+780) AND ÇAĞLARCA TUNNEL (BETWEEN KM: 72+130-73+960) SURVEYING AND DESIGN ENGINEERING SERVICES

Administration : GENERAL DIRECTORATE OF HIGHWAYS (K.G.M.)
Employer : K.G.M. 13. REGIONAL DIRECTORATE

In an effort to improve the standards of 2 x 2 divided road of Kaş – Kalkan State Highway and increase the driver's comfort, the application projects of Çağlarca and Çukurbağ Tunnels were undertaken.

These passages will be designed as duplex tubes.



Şekil 5-39: Kesim-2 dinamik durumda oluşan düşey deformasyonlar

According to the project, Çağlarca Tunnel is 1917 m and Çukurbağ Tunnel is 252 m long. The following services were completed within the scope of the project:

- Tunnel Application Projects
- Engineering Investigation Services (Boring and Lab Experiments)
- Electro-Mechanic Projects (Ventilation, Fire, Communication etc.)



ENGINEERING AND CONSULTANCY LIMITED

OUR SERVICES

Within the scope of the transport industry, specifically on the highway transport area, EPRO Engineering, with its leading expert team, have led many design projects such as local and urban highways, intersections, bridges and viaducts.

PLANNING

- Transport Surveys and Highway, Freeway and Intersection Feasibility Reports,
- Special Traffic Counts and Analysis,
- Highway and Freeway route surveys and reports of route planning alternatives.
- Local Traffic Divert (Circulation) Projects
- Freeway Capacity Analysis and Traffic Flow Planning Projects,

BRIDGE AND VIADUCT PROJECTS

- Bridge Projects,
- Viaduct Projects,

TRAFFIC ENGINEERING PROJECTS

- Traffic Sign Projects,
- Highway Guardrail Projects,
- At Grade Intersection Signalization Projects,
- Accident Black-Spot Analysis, general treatment report and treatment plan,
- Preliminary Project Reports towards the treatment of regional, Urban or specific traffic problems.

SUPERSTRUCTURE PROJECTS

- Road Pavement Design,
- Concrete Road Pavement Design,

LOCAL AND URBAN HIGHWAY PROJECTS

- State Roads,
- Freeway Projects,
- Tunnel Projects,
- At Grade Intersection Projects,
- Interchange Projects,

**MAPPING, EXPROPRIATION AND
PUBLIC ZONE RECONSTRUCTION
PLANS**

- Determination of Strip Maps related with numerous highway projects.
- Preparation of necessary Expropriation Plans related with Projects.
- Preparation of reconstruction maps for the roads that stay inside the zoning and construction plan.

**HIGHWAY STRUCTURES AND
INFRASTRUCTURE PROJECTS**

- Retaining Wall Projects,
- Landslide Prevention Projects,
- Deep Foundation Projects.
- Engineering structures, Culverts, concrete pipes etc. small hydraulic structure projects
- De-bushing and Culvert dimensioning calculations
- Drainage Structures Projects
- Infrastructure Relocation Projects
- Highway and Intersection Lighting Projects,
- Highway and Intersection Landscape projects

CONSULTING

- Project Management and Inspection
- Construction Management and Inspection
- Pre-and After Construction Engineering Consulting services
- Cost Estimation Reports to be used as basis in biddings
- Design Project and Construction approximate cost calculations



**ENGINEERING AND
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Our References:

**THE INSTITUTIONS AND ORGANIZATIONS THAT EPRO ENGINEERING LTD.
IS CURRENTLY WORKING OR HAS WORKED WITH IN THE PAST**

- **GENERAL DIRECTORATE OF HIGHWAYS**
 - All Regional Directorates (1-18)
- **GENERAL DIRECTORATE OF STATE HYDRAULIC WORKS**
 - Isparta Regional Directorate
 - Edirne Regional Directorate
- **GENERAL DIRECTORATE OF TURKISH STATE RAILWAYS**
 - 3. Regional Directorate İzmir
- **HOUSING DEVELOPMENT ADMINISTRATION (TOKİ)**
- **MUNICIPALITIES**
 - Istanbul Metropolitan Municipality
 - Kocaeli Metropolitan Municipality
 - İzmir Metropolitan Municipality
 - Antalya Metropolitan Municipality
 - Tekirdağ Metropolitan Municipality
 - Adapazarı Metropolitan Municipality
 - Kahramanmaraş Metropolitan Municipality
 - Malatya Municipality
 - Elazığ Municipality



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SOME OTHER ESTABLISHMENTS

- POLAT ROAD CONSTR.
- BELDE HARBOUR
- AYHANLAR ASPHALT/ROAD
- GROUP TEKNO-ROYAL
HASKONING
- KİSMAK (KİSKA-MAKYOL
JOINT VENTURE)
- FERMAK CONSTRUCTION
COMPANY
- ZORLU GROUP
- ÖZDEMİR CONSTRUCTION
- AÇIK CONSTRUCTION
- AÇILIM CONSTRUCTION
- GEBZE ORG. IND. ZONE
DIRECTORATE(GOSB)
- DİLOVASI .ORG. IND. ZONE
DIRECTORATE(DOSB)
- ADAPAZARI 2.ORG. IND.
ZONE DIRECTORATE
- ADAPAZARI 3.ORG. IND.
ZONE DIRECTORATE
- TAŞYAPI
- TÜPRAŞ
- ÖZYURT MINING
- DUBAİ PORT
- SEZA CONSTRUCTION
- MAPA CONSTRUCTION

Some of our finished and ongoing work;

A-) Overseas Engineering Services

1. Blue Nile-Khartoum North Bridge (Entrance-Exit Road) Project (Sudan)
2. Ujar-Yevlakh Road Rehabilitation Project-Kura River Bridge (Azerbaijan)
3. Bakü – Quba Freeway, (Km:13+700–Km: 11+680) Landslide Prevention Project (Azerbaijan)
4. Ruhubelent-Koneurgench Highway Project (Km:0+000-80+000 Turkmenistan)
5. Kurdemir-Hacıqabul Route (Km:0+000 – 80+000) Highway and Bridge Construction Designs

B-) Domestic Engineering Services

- 1- Sarıyer Stream Restoration Road and Junction Project (İ.B.B.)
- 2- Altınşehir-Kayabaşı-Şamlar Road Construction Designs (İ.B.B.)
- 3- Tahtakale-Firuzköy Road Construction Designs (İ.B.B.)
- 4- Maltepe-Başbüyük-Büyükbakkalköy Road Construction Designs (İ.B.B.)
- 5- Eyüp Fevzi Çakmak Street-TEM Access Road Construction Designs (İ.B.B.)
- 6- Bağcılar-TEM Access Road's North and South Bypass Roads and Under-Overpass Construction Designs (İ.B.B.)
- 7- Küçükçekme DDY Vehicle Overpass and Access Roads Construction Designs (İ.B.B.)
- 21- E5 Highway Gülsuyu Interchange Construction Designs (İ.B.B.)
- 22- E5 Highway Yenisahra Interchange Construction Designs (İ.B.B.)
- 23- Kağıthane-Piyalepaşa Tunnel, Kağıthane Tunnel Entrance-Exit Interchange Construction Designs (İ.B.B.)
- 24- Piyalepaşa-Dolmabahçe Tunnel, Dolmabahçe Tunnel Entrance-Exit Interchange Construction Designs (İ.B.B.)
- 25- Anatolian Side-3. Stage Kadıköy Marketplace Interchange Construction Designs (İ.B.B.)
- 32- Kınalı -Edirne-Kapıkule State Road (Between Lüleburgaz-Çorlu) Survey Project, Engineering Services (KGM 1. Regional Directorate)

33- Ayrım Konaklar-Pelitli-YalıncaK-Kaşüstü Divided Road's (Km:0+000-3+610) Viaduct Project and Grade Separated Junction and Access Road Project on Karadeniz Coast Road's Avrasya University position (KGM 10. (Trabzon) Regional Directorate)

34- İstanbul Ataşehir Interchange and Road Project
(TOKİ Emlak Konut Real Estate Investment Company)

36- At Grade Interchange Construction Designs on State Road between Malkara Ayr. -Tekirdağ
(KGM 1. Regional Directorate)

43- Davutpaşa Köprülü Interchange Construction Designs (İ.B.B.)

44- Common Infrastructure Construction Design Projects of the Access Road between Esenler Marketplace Interchange-TEM Freeway (İ.B.B.)

56- Samsun West Peripheral Road (KGM 7. Regional Directorate)

57- Siirt Peripheral Road (KGM 9. Regional Directorate)

58- Batman Peripheral Road (KGM 9. Regional Directorate)

59- Various Bridge Projects (KGM 13. Regional Directorate)

61- Şalpazarı – İskenderli Road (KGM 10. Regional Directorate)

62- OrtaBağ-Cıglai Ayr. Beytüşşebap Road (KGM 9. Regional Directorate)

63- Gerçüş Vergili Ayr. - Midyat Road (KGM 9. Regional Directorate)

64- Reşat Baysal ve Aktaş Village Road (KGM 9. Regional Directorate)

65- 4. Bl. Hudut –İlgaz Tosya – 7. Bl.Hudut Road İndağı Interchange (KGM 15. Regional Directorate)

66- Ayr. Konaklar Pelitli Kaşüstü Divided Road and Bridge Projects (KGM 10. Regional Directorate)

67- Pertek-Hozat Road (KGM 8 Regional Directorate)

68- Çıldır Aktaş Road (KGM 18. Regional Directorate)

69- Alaca - Zile Divided Road (KGM 6. Regional Directorate)

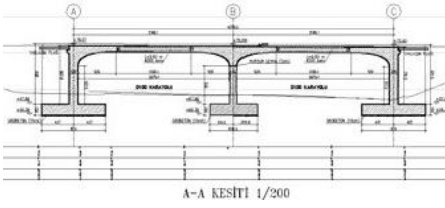
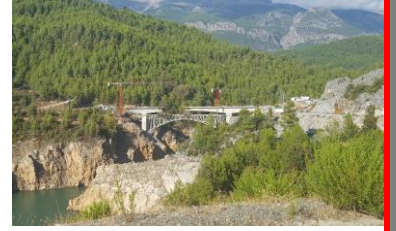
GLOSSARY:

İ.B.B.: İstanbul Metropolitan Municipality

KGM: General Directorate of Highways

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We would be pleased to share our experiences with Highway, Interchange,
Bridge, Viaduct and Infrastructure Related Surveying and Engineering Services with you.

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