

IZMIR RING ROAD / TURKEY

DESIGN OF BALCOVA - KARSİYAKA HIGHWAY TUNNELS

OWNER: GENERAL DIRECTORATE OF HIGHWAYS



LOCATION

PROJECT DESCRIPTION

THE IZMIR-RING ROAD PROJECT CONTAINS 5 TUNNELS. THE 3 "BALCOVA" TUNNELS AND THE 2 "KARSİYAKA" TUNNELS. THEIR TOTAL LENGTH IS 6.013 M AND THE CROSS SECTION IS 16,20 M WIDE AND 11,20 M HIGH. GEOLOGICAL CONDITIONS RANGE FROM SOFT GROUND

SERVICES PROVIDED

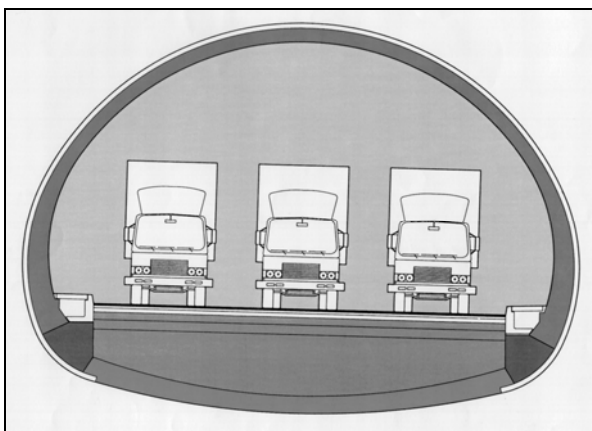
- DETAILED DESIGN INCLUDING
- ALIGNMENT OF MOTORWAY
- EXCAVATION SEQUENCES
- ROCK CLASSIFICATION
- DRAINAGE- AND FIRE-FIGHTING SYSTEMS
- FINAL LINING – REINFORCEMENT
- LAYOUT OF PORTALS
- DISTRIBUTION STRUCTURES
- CUT & COVER SECTIONS

- GEOTECHNICAL ENGINEERING
- STABILITY ANALYSIS
- DETAILED SPECIFICATIONS
- BILL OF QUANTITIES
- STRUCTURAL COMPUTATIONS
- PREPARATION OF CONTRACT DOCUMENTS

PERIOD OF WORK: 2/1991 – 7/1993
 VOLUME OF TOTAL WORK: 6,200,000 EURO



IZMIR RING ROAD - LOCATION OF TUNNELS



TYPICAL CROSS SECTION
 (EXCAVATION DIMENSION: WIDTH = 16,20 M, HEIGHT = 11,20 M)



EXCAVATION TO FULL PROFILE