

Transportation Infrastructure

Bursa Burulas T3 Tram Line Design and Preparation of the Tender Documents



Client Bursa Public Transportation Inc.Co. (BURULAŞ)

Work Period 17.11.2014 - 30.11.2016

Services

Concept design services (adding infrastructure data into city map, detection of zoning plan, land use and cadastral conditions, preparation of the layout plan for existing and new level crossings, engineering structures and interchanges, determination of station and transformer locations, design of operation-maintenance center and depot area and determination of an appropriate location for these facilities by considering transportation master plan and existing line, provide integration to the existing line, preparation of 1/5000 scaled route plan alternatives, typical cross-sections, determination of station types, preparation of 3D perspectives, introductory video, presentation and introductory brochure)

Preliminary and final design services (Route survey for the rail system and finalization of the route, preparation of preliminary and final design drawings for route and stations, preparation preliminary and final design drawings for depot, maintenance, transformer, plant and parking facilities, defining electromechanical systems, preparation of preliminary and final design reports, site surveying, topographic studies and detection of infrastructure info, soil survey and preparation of geotechnical reports, review trip demands and determination of system criterion, traffic analysis and planning, preparation of financial-economic and feasibility study report)

Preparation of construction drawings and tender documents (Preparation of route construction drawings, preparation of infrastructure displacement drawings, preparation of station construction drawings, preparation of engineering structures construction drawings, preparation of construction drawings for depot, maintenance, transformer, plant and parking facilities, preparation of electromechanical system construction drawings, preparation of construction drawings report, preparation of zoning plan and alteration proposals, preparation of expropriation documents, preparation of BoQ and cost estimation, preparation of administrative and technical specs. for construction works)

Technical Details

The project consists of 1200 m long single and 3700 m long double track additional rail system between Gökdere and Sitelер districts of Bursa together with depot, plant, maintenance and parking facilities. The additional line is compatible with the existing system in respect of track and vehicles. The service scope consists of concept design, preliminary and final design, feasibility study, traffic analysis and planning, preparation of construction drawings and tender documents, taking approvals from General Directorate of Infrastructure Investments and State Planning Organisation. Design disciplines can be listed as civil, mechanical, electrical, electronics and other sub systems.

