

Transportation & Infrastructure

Beirut Urban Transport Development Project

Country

Lebanon

Client

Council for Development and Reconstruction, World Bank

Project Capital Cost

US\$60 Million

Services

Design Review & Construction Supervision

Main Trades

Transportation, Structural, Environmental

Project Time Frame

2005 – On Going



Narrative Description

With the ultimate goal of solving Beirut's complex traffic congestion problems, the Urban Transport Development Project includes, among other components, the construction of 16 grade separations (overpasses and underpasses) at the city's highly congested intersections. The project components include Reinforced and Post-Tensioned Concrete Works, Earth Works, Sewage, Drainage, Water and Electrical Networks Pavement Works, Sidewalks and Lighting, Signing and Marking, Street Amenities and Landscaping.



Dar Al Handasah Nazih Taleb & Partners were retained by the Council for Development and Reconstruction and the World Bank to provide design review, construction management and supervision services including environmental and archeological monitoring and mitigation for the main BUTD projects.



Beirut Urban Transport Development Project



Dora Overpass - Reinforcement Works



Scaffolds View Through Pipes



Dora Overpass - Formworks Works



Hayek Overpass - Concrete Casting



Hayek Overpass - Concrete Casting



Hayek Overpass - Completed Works



Dora Overpass - Formworks Works



Dora Overpass - Formworks Works

Transportation & Infrastructure

Beirut Urban Transport Development Project Upgrading of Hayek & Saloumeh Intersections

Country
Lebanon

Client
Council for Development and Reconstruction,
World Bank

Project Capital Cost
US\$6.6 Million

Services
Design Review & Construction Supervision

Main Trades
Transportation, Structural, Environmental

Project Time Frame
2005 – 2007



Narrative Description

With the ultimate goal of solving Beirut's complex traffic congestion problems, the Urban Transport Development Project includes, among other components, the construction of 16 grade separations (overpasses and underpasses) at the city's highly congested intersections.

The upgrading of Hayek & Saloumeh intersection consists of constructing a permanent pre-stressed concrete slab bridge carrying both Jisr El Wati and Qalaa eastbound and northbound traffic respectively over the Hayek roundabout towards the Sin El Fil Boulevard and intersecting Saloumeh-Dekwaneh road. The overall length of bridge (embankment and opening) is approximately 560m, with a pre-stressed concrete deck 310m long in 16 spans. The works also include the construction of Marginal Roads adjacent to the bridge, Infrastructure Works, Drainage Networks, Street Lighting, Signing & Marking, Sidewalks, Landscaping Works, and Relocation of Utilities.



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Beirut Urban Transport Development Project Upgrading of Hayek & Saloumeh Intersections



Beirut Urban Transport Development Project Daoura Viaduct

Country
Lebanon

Client
Council for Development and
Reconstruction,
World Bank

Project Capital Cost
US\$12.4 Million

Services
Design Review & Construction Supervision

Main Trades
Transportation, Structural, Environmental

Project Time Frame
2005 – 2008



Narrative Description

With the ultimate goal of solving Beirut's complex traffic congestion problems, the Urban Transport Development Project includes, among other components, the construction of 16 grade separations (overpasses and underpasses) at the city's highly congested intersections.

The Daoura Viaduct project consists of replacing the existing steel bridge with a two-way permanent post-tensioned concrete carriageway viaduct of 3 x 3.50m in each direction. Each bridge has a total length of 375m and an overall deck width of 13m. The works also included upgrading of the existing Service Roads and Roadway Networks, with relocation of the existing Water Supply Line and HV Power Lines. The project also included, Infrastructure Works, Drainage Networks, Street Lighting, Signing & Marking, Sidewalks, Landscaping Works and Relocation of Utilities.



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Beirut Urban Transport Development Project Daoura Viaduct



Beirut Urban Transport Development Project Grade Separation at Airport Road - Chiyah Boulevard

Country
Lebanon

Client
Council for Development and Reconstruction,
World Bank

Project Capital Cost
US\$7.1 Million

Services
Design Review & Construction Supervision

Main Trades
Transportation, Structural, Environmental

Project Time Frame
2006 – On Going



Narrative Description

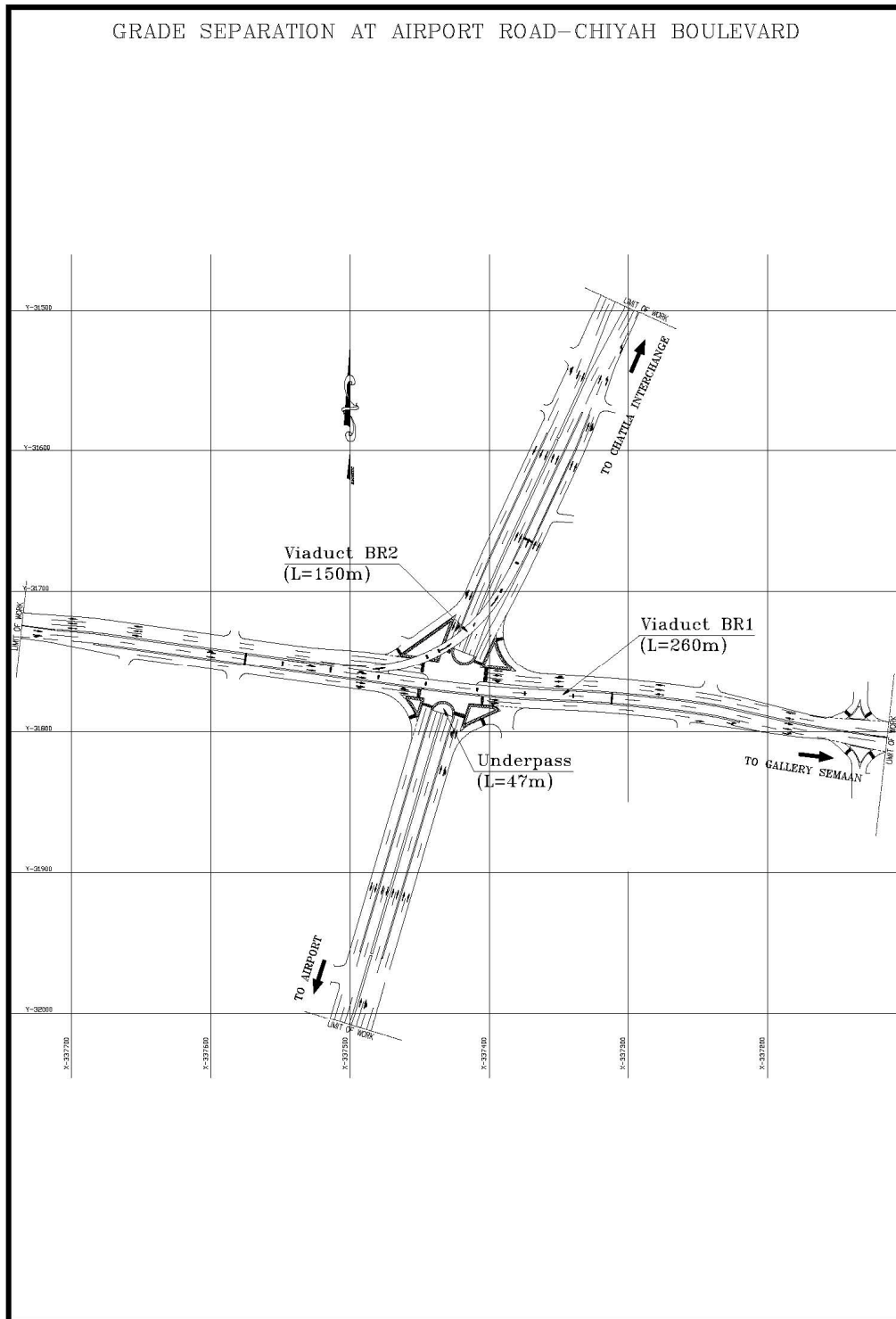
With the ultimate goal of solving Beirut's complex traffic congestion problems, the Urban Transport Development Project includes, among other components, the construction of 16 grade separations (overpasses and underpasses) at the city's highly congested intersections.

The grade separation at Airport Road project consists of 2-lane single carriageway controlled-access road over passing the Airport Road (east bound) and minor intersecting roads by means of an 8-span flyover, with a total length of 260m. From that overpass branches another 5-span flyover carrying the left turn traffic uninterruptedly over the Airport Road towards Chatila Roundabout, with a total length of 150m. The works also include an underpass road divided into two sections with a width of 7.5m in each direction and a length of 47m passing under the Chiyah Boulevard, Pedestrian Overpass, Infrastructure Works, Drainage Networks, Street Lighting, Signing & Marking, Sidewalks, Landscaping Works and Relocation of Utilities.



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Beirut Urban Transport Development Project
Grade Separation at Airport Road - Chiyah Boulevard



Beirut Urban Transport Development Project Grade Separation at Airport Road - Chiyah Boulevard



Beirut Urban Transport Development Project Grade Separation at Adlieh Junction

Country
Lebanon

Client
Council for Development and Reconstruction,
World Bank

Project Capital Cost
US\$9.2 Million

Services
Design Review & Construction Supervision

Main Trades
Transportation, Structural, Environmental

Project Time Frame
2005 – 2008



Narrative Description

With the ultimate goal of solving Beirut's complex traffic congestion problems, the Urban Transport Development Project includes, among other components, the construction of 16 grade separations (overpasses and underpasses) at the city's highly congested intersections.

The Grade Separation at Adlieh Junction consists of a main two-cell cut and cover tunnel carrying eastbound and westbound traffic on Corniche Pierre Gemayel and joining, at its eastern end, with a directional one-way, one-cell cut and cover tunnel carrying Sami El-Solh northbound traffic under the Adlieh Roundabout. The project also included Infrastructure Works, Drainage Networks, Street Lighting, Signing & Marking, Sidewalks, Landscaping Works and Relocation of Utilities.



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Beirut Urban Transport Development Project Grade Separation at Adlieh Junction



Beirut Urban Transport Development Project Upgrading of Bchamoun Aramoun Intersection

Country
Lebanon

Client
Council for Development and Reconstruction,
World Bank

Project Capital Cost
US\$2.4 Million

Services
Design Review & Construction Supervision

Main Trades
Transportation, Structural, Environmental

Project Time Frame
2005 – 2007



Narrative Description

With the ultimate goal of solving Beirut's complex traffic congestion problems, the Urban Transport Development Project includes, among other components, the construction of 16 grade separations (overpasses and underpasses) at the city's highly congested intersections.

Upgrading of Bchamoun Aramoun Intersection was completed by providing a new road alignment as a traffic detour starting from North of Bchamoun bifurcation and creating a 3-lane gyratory with a perimeter of 1.5 km. in alignment with Old Saïda Road, then goes West and continues South, parallel to the railway corridor before connecting with the southbound carriageway south of Aramoun, creating an extension to be connected to the major highway of Khalde and Choeifat. The project also includes Infrastructure Works, Drainage Networks, Street Lighting, Signing & Marking, Sidewalks, Landscaping Works, Utilities Relocation.



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Transportation & Infrastructure

Beirut Urban Transport Development Project Upgrading of Bchamoun Aramoun Intersection



Beirut Urban Transport Development Project Antelias Overpass

Country
Lebanon

Client
Council for Development and Reconstruction,
World Bank

Project Capital Cost
US\$9.7 Million

Services
Design Review & Construction Supervision

Main Trades
Transportation, Structural, Environmental

Project Time Frame
2006 – 2009



Narrative Description

With the ultimate goal of solving Beirut's complex traffic congestion problems, the Urban Transport Development Project includes, among other components, the construction of 16 grade separations (overpasses and underpasses) at the city's highly congested intersections.

The Antelias Overpass project features a new overpass replacing an existing steel bridge along the coastal highway in Antelias and upgrading of the existing coastal highway, including access roads. The project components include a dual carriageway overpass of 4 lanes, with an approximate length of 290m. The deck is a post-tensioned box girder with a curved soffit with a maximum span of 45m. The project also included, Infrastructure Works, Storm Water Drainage Network, Street Lighting, Traffic Signs & Road Marking, Landscaping Works and Relocation of Utilities.



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Beirut Urban Transport Development Project Antelias Overpass

