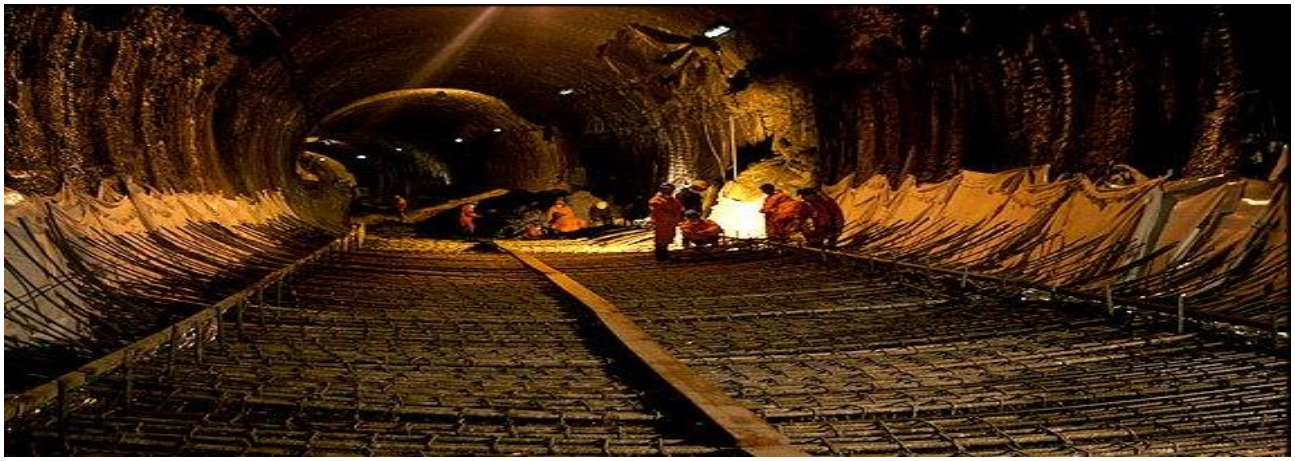
Tehran Metro (Line 6), W6 & Y6 Stations

The Tehran Metro consists of 5 operational metro lines (and an additional commuter rail line), with construction under way on three lines including west extension of line 4, line 6 and north and east extension line 7.

Line 6 is under construction. When completed this line will be 32 km long with 27 stations as it connects southeast Tehran to northwest.



Project:	Tehran Metro (Line 6)
Client:	Tehran Urban and Suburban Railway Company (TUSRC)
Consultant Responsibilities:	Structural Design of Elements related to Underground Stations (Based on Different Excavation) ,Design and definition of construction phases Provide technical documents, Prepare implementation instructions, Provide the design drawings.
Project Total Length:	32 km tunnel with 27 stations
Temporary Support System:	Concrete Pile and Ribs, Shotcrete support
Permanent Structural System:	Cast in Place Concrete Structures
Construction Method:	Underground Excavation Method (Including Pile and Rib Temporary Support as Initial Support and cast in place concrete as Final Lining)
Project's Situation:	Under Construction

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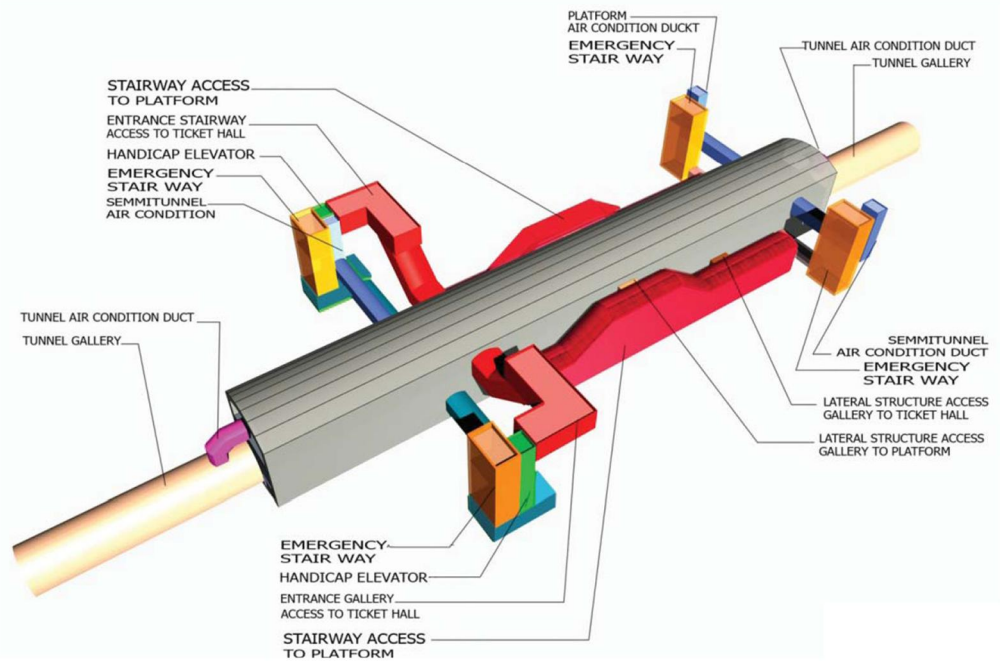
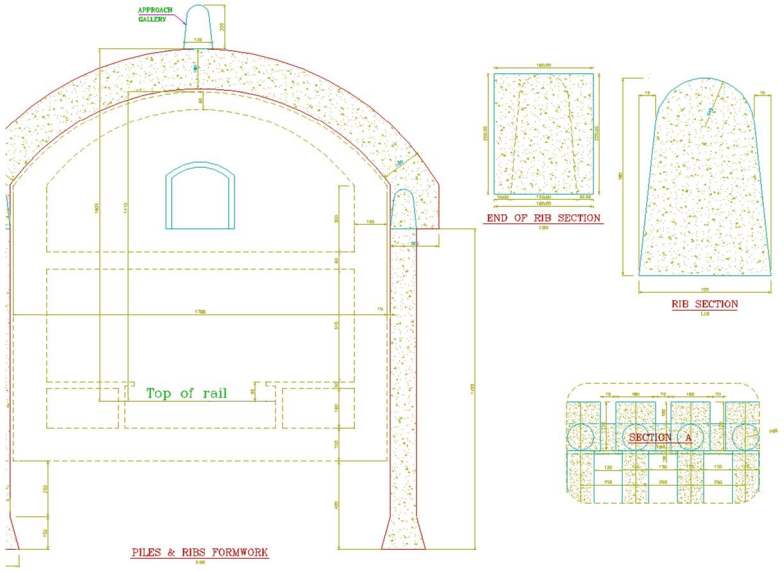
Reference List of Metro Stations

Project name and specification	Country	Client	Our Services	Role
Tehran metro Line 6 Y6 station Location: Hemmat Highway & Shahran Street intersection Excavation Method: Rib and Pile pre-support Width 17m, Height 21m, Overburden 15m Support: Piles D=1.2m@2.5m,Ribs 1.8mx1.2m@2.5m Project's Situation: Constructed	IR	Chilco co.	First and second phase design including: • Design and analysis of support for underground space and structural dimensions of members by Plaxis.2D and 3D, SAP2000 • Structural design including foundations, columns, reinforced concrete beams	Structural Design





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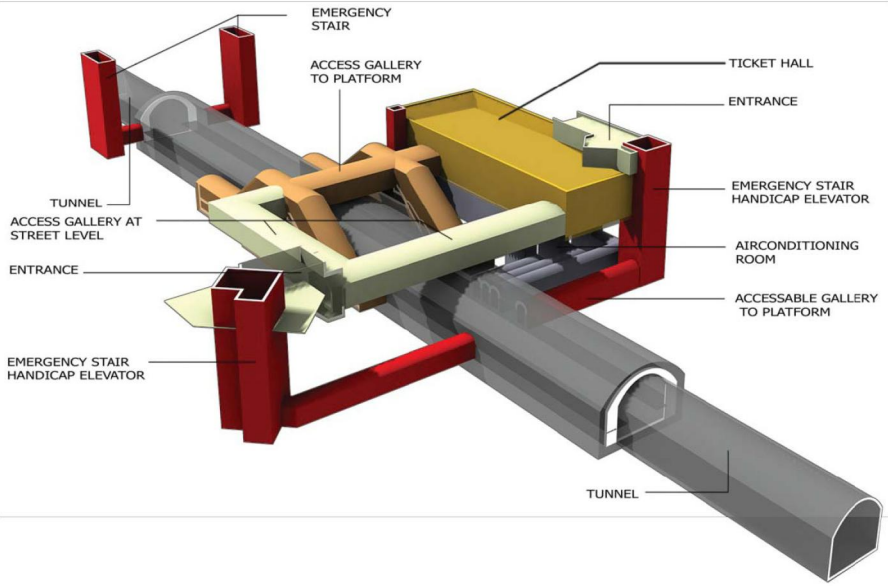
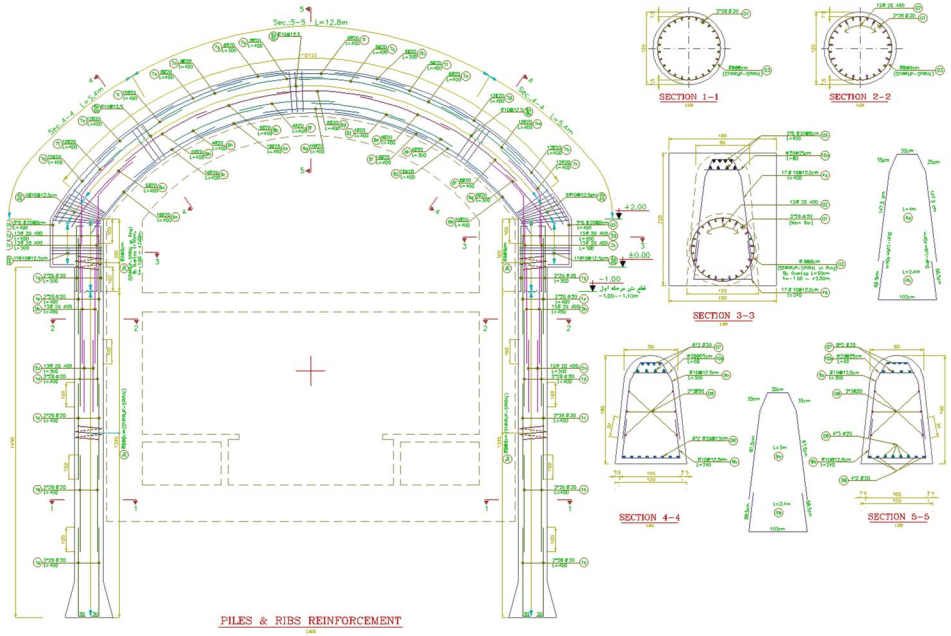
Reference List of Metro Stations

Project name and specification	Country	Client	Our Services	Role
Tehran metro Line 6 W6 station Location: Nezam-Mafi Boulevard Excavation Method: Rib and Pile pre-support Width 17m, Height 21m, Overburden 12m Support: Piles D=1.2m@2.5m,Ribs 1.8mx1.2m@2.5m Project's Situation: Constructed	IR	Chilco co.	First and second phase design including: • Design and analysis of support for underground space and structural dimensions of members by Plaxis.2D and 3D, SAP2000 • Structural design including foundations, columns, reinforced concrete beams	Structural Design





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Isfahan Metro (Line 2), L2 & M2 Stations

Isfahan (Esfahan) lies in central Iran, and has a metropolitan population of more than 2 million. The total length of this line will be 25 km with 23 stations.

Project:	Isfahan Metro (Line 2)
Client:	Esfahan Urban Railway Organization, Esfahan Municipality
Consultant Responsibilities:	Structural Design of Elements related to Underground Stations (Based on Different Excavation) ,Design and definition of construction phases Provide technical documents, Prepare implementation instructions, Provide the design drawings.
Project Total Length:	25 km tunnel with 23 stations
Temporary Support System:	Concrete Pile and Ribs, Shotcrete support
Permanent Structural System:	Cast in Place Concrete Structures
Construction Method:	Underground Excavation Method (Including Pile and Rib Temporary Support as Initial Support and cast in place concrete as Final Lining)
Project's Situation:	Under Construction

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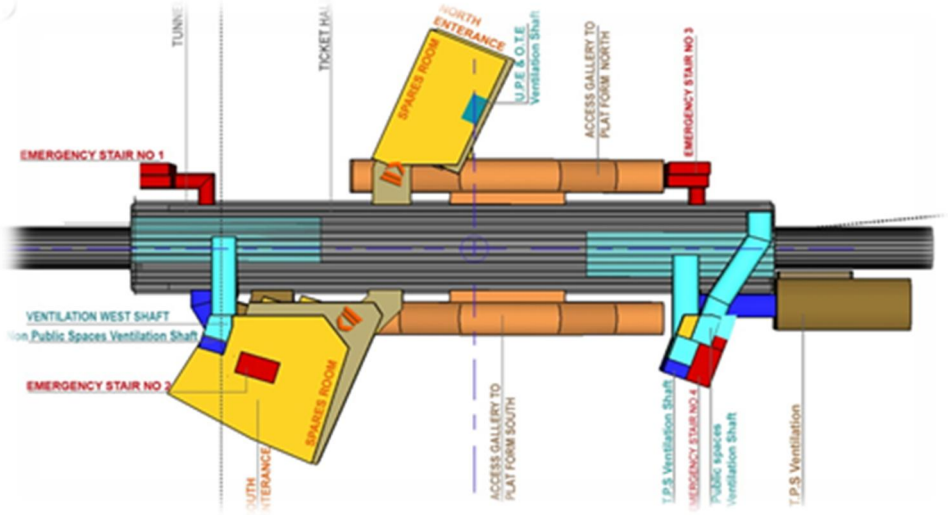
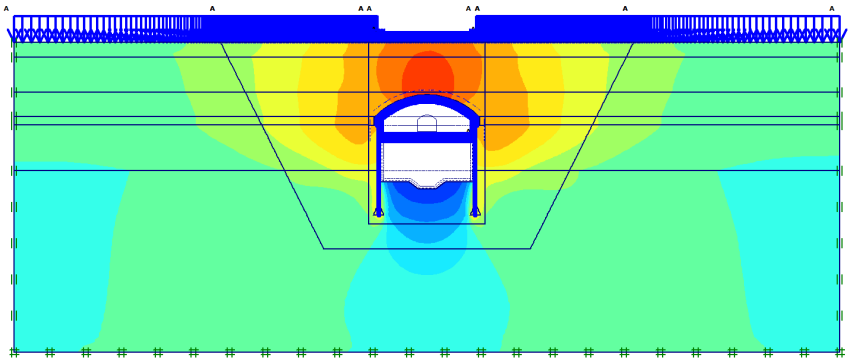
Reference List of Metro Stations

Project name and specification	Country	Client	Our Services	Role
Isfahan metro Line 2 L2 station Location: Imam Hossein Square Excavation Method: Rib and Pile pre-support Width 23m, Height 21m, Overburden 13m Support: Piles D=1.2m@2.5m,Ribs 1.8mx1.2m@2.5m Project's Situation: Under Construction	IR	Rahsaz Tarh CE.	First and second phase design including: • Design and analysis of support for underground space and structural dimensions of members by Plaxis.2D and 3D, SAP2000 • Structural design including foundations, columns, reinforced concrete beams	Structural Design





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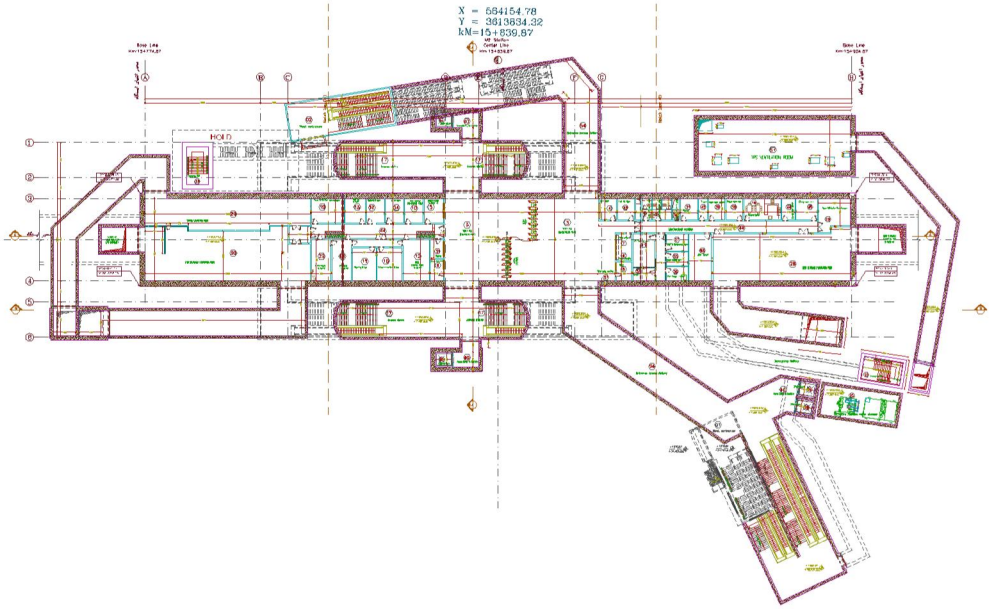
Reference List of Metro Stations

Project name and specification	Country	Client	Our Services	Role
Isfahan metro Line 2 M2 station Location: Hafez Square Excavation Method: Rib and Pile pre-support Width 23m, Height 21m, Overburden 13m Support: Piles D=1.2m@2.5m,Ribs 1.8mx1.2m@2.5m Project's Situation: Under Construction	IR	Rahsaz Tarh CE.	First and second phase design including: • Design and analysis of support for underground space and structural dimensions of members by Plaxis.2D and 3D, SAP2000 • Structural design including foundations, columns, reinforced concrete beams	Structural Design



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