

Underground Engineering



New York DEP Roundout West Bypass Tunnel +

We provide a host of design and consulting services for all phases of underground civil engineering projects, from feasibility studies to innovative design, and engineering support through construction. We work directly for government agencies and private sector owners, tunnel contractors, and as a specialty subconsultant to other engineering firms. Our leading-edge designs consider construction methods ranging from open-beam tunnel boring machines (TBMs) for hard rock tunnels, shielded rock machines, earth pressure balance and slurry machines for soft ground, and New Austrian Tunneling Method (NATM) techniques. We are recognized as one of the world's acknowledged experts in the design of tunnels, deep shafts, temporary works, portal and slope stability, deep foundations, building protection measures, and ground improvement by grouting and dewatering. We have specialized education and practical hands-on field knowledge in the disciplines required for underground projects, including engineering geology, geotechnical engineering, rock mechanics, structural engineering, mining engineering, and construction contracting. We also provide geotechnical

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- » Water Resources +

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- » Engineering / Design / Permitting +
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- » Design-Bid-Build +
- » Design-Build (Design Partner) +
- » Design-Build / EPC +
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