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General Civil Engineering Services

Protecting, Enhancing, and Restoring our Environment

Creating solutions and delivering results since 1976

CTI AND ASSOCIATES, INC. (CTI) is a multi-disciplinary engineering and construction project-delivery firm specializing in Engineering, Environmental Compliance and Remediation. We integrate planning, analysis, engineering design, construction, and operations services to provide total project solutions that consistently meet and exceed client expectations. CTI's more than four decades of proven performance in the federal, state, municipal, and commercial market sectors is a true testament to our ability to deliver safe, reliable, and cost-competitive services, on schedule and within budget. Over the past decade, CTI has successfully executed 100's of projects for US DOE NNSA, and for project-specific contracts in support of the USACE, Cleveland Cliffs, TVA, US Ecology and Waste Management.

WASTE CONTAINMENT DESIGN & CONSTRUCTION

- Industrial Solid Waste, Low Level Radioactive Waste (LLW), Hazardous Waste, Mixed Waste, Demolition Debris, and Coal Combustion Residual (CCR)
- Site Characterization, Hydrogeologic Investigation, Permitting
- Liner System Engineering, Geosynthetics Engineering, Stability Analysis, Leachate Management Design, Final Cover Design, Surface Water Management Engineering
- Complete Design-Build Capabilities including Construction, Management, Engineering, Self-Performed Construction, and Quality Control
- Health and Safety, Mass Earthwork, Geosynthetics Installation, Pumps and Piping, Site Infrastructure, Construction Quality Assurance
- Compliance, Operations and Post-Closure Care

GEOTECHNICAL ENGINEERING

- Intrusive and Non-Intrusive (Geophysical) Investigation
- Ground Improvement Engineering
- Foundation Engineering
- Groundwater, Slope Stability, and Settlement Analyses
- Reinforced Slope and Earthen Retaining System Design

CIVIL ENGINEERING

- Facility Mapping (Storm and Sanitary Sewers)
- Stormwater Hydraulic Investigations
- Storm Sewer Design
- On and Off Road Facility Roadways
- Dike Design/Repair
- Pond Inlet/Outflow Structure Design

DEACTIVATION & DEMOLITION

- Hazardous and Radioactive Materials Characterization
- MARSSIM Surveys
- Program Management
- Value Engineering
- Work Plan Development
- Building and Infrastructure Demolition
- Waste Packaging and Disposition

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General Civil Engineering Services Representative Experience

Tennessee Valley Authority

CTI supports the evaluation, review and design of improvements to stormwater features (ponds, ditches, manholes, catchbasins, sheet flow) to prevent flooding and anticipate future stormwater needs.



Cleveland Cliffs Industrial Solid Waste Landfill

CTI supports the Cleveland Works at their ISW landfill. CTI has completed the design and CQA services for a 16-acre closure cap and a 10-acre expansion cell.



Waste Management Mechanically Stabilized Earth Wall

CTI designed and provided CQA oversight of a MSE wall consisting of a 44-ft. tall geosynthetically reinforced earthen wall which with a natural facing to blend into the existing site landscape.



Representative Clients



Office Locations

- Farmington Hills, MI (Headquarters)
- Aiken, SC
- Akron, OH
- Knoxville, TN
- Los Alamos, NM
- Idaho Falls, ID
- Oak Ridge, TN
- Sheboygan, WI

CTI's Federal Footprint

