

Civil / Structural Engineering

WITH DIVERSE BACKGROUNDS IN ENGINEERING, DESIGN, DETAILING AND CONSULTING, OUR STAFF IS WELL PREPARED TO TAKE ON THE CIVIL/STRUCTURAL REQUIREMENTS OF OUR INDUSTRIAL CLIENTS.

Typical Focus

- △ Structural analysis and design for structure, enclosures, foundations and impoundments
- △ Steel mills
- △ Industrial facilities
- △ Manufacturing facilities
- △ Chemical plants
- △ Biofuel facility/landfills
- △ Structural inspections
- △ Construction monitoring/management

Services

- △ Manage site surveys
- △ Manage geotechnical and subsurface investigations
- △ Environmental investigations
- △ Site planning – roads, drainage, security fences
- △ Grading plans
- △ Concrete design – mats, spread footings, continuous footings, deep foundations, piles and ring foundations
- △ Structural steel design – pipe racks, structures, bridges
- △ Masonry design
- △ Enclosure design
- △ Door and window schedules
- △ Room finish schedules

Tools

- △ STAAD Pro
- △ STAAD Foundations
- △ Enecalc
- △ sp Mats
- △ AutoCAD Civil 3D/AutoCAD
- △ Hilti PROFIS Anchor Design





Example Projects

- △ Modeling and detailing of a walking beam electric arc furnace
- △ Design of steel structure for coal processing facility involving heavy dynamic loads at multiple levels
- △ Layout and design of waste acid trench system
- △ Equipment and vessel foundations
- △ Trolley hoist systems
- △ Skid base analysis and design
- △ Renovations to existing structural steel frames
- △ Design of structural steel and reinforced concrete foundations and pools for biofuel and other production facilities

Equipment and Systems Specified

- △ Equipment foundation and pads
- △ Pipe rack foundations and structural steel
- △ Towers
- △ Platforms, stairs, ladders
- △ Industrial vessel support structures and buildings
- △ Pre-engineering metal buildings
- △ Pole buildings
- △ Impoundments
- △ Site work