

Kalyan (Kal) Chandhuri | Associate Principal



EDUCATION

- Osmania University
 - Bachelor of Science, Civil Engineering, 2001
- University of Illinois Chicago
 - Master of Science, Civil/Geotechnical Engineering, 2003
- University of Chicago, Booth School of Business
 - Master of Business Administration - Finance, Strategy, and Operations, 2015

PRACTICE AREAS

- Geotechnical Analysis and Design Consulting (Foundation/Substructure/Retention Structures/Pavement)
- Value Engineering and Underpinning
- Forensic Investigation
- Ground Improvement and Construction Consulting

REGISTRATIONS

- Professional Engineer in IL and IN

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers - Geo-Institute Deep Foundation Institute

CONTACT

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EXPERIENCE

Kal Chandhuri has more than nineteen years of experience in geotechnical engineering design and consulting and relevant construction management experience on various projects in Illinois, Indiana, Michigan, and Ohio. His project experience expands across many sectors, including residential, mid- to high-rise commercial, industrial, renewable energy and power, healthcare infrastructure, and heavy transportation. These services involve design and investigation of distressed foundations, substructures, earth retention systems, embankments, pavements, and various other construction aspects of the projects.

REPRESENTATIVE PROJECTS

Geotechnical Consulting (New Design) – Private and Public Sector

- 300 N. Michigan Avenue - Chicago, IL: Foundation engineering and consulting during design and construction *
- Decatur School - Chicago, IL: Foundation engineering and consulting during the design and construction phases *
- Multiple Warehouses (> 1M Square Feet) - Frenchtown, MI, and Monroe, MI: Foundations, slabs, and pavement sections redesign based on additional in-situ testing; consulting and recommendations for soil stabilization during mass earthwork operations *
- I-90/I-294 Bridge Structures - IL: Various deep foundation design options, including but not limited to drilled shafts, drilled piles, driven piles, and auger cast piles; slope and retaining wall stability for MSE wraparound abutment walls, soldier pile, and sheet piling type of walls *
- Various Data Centers and Solar Farms - U.S. Midwest: Engineering and consultation using CPT and pressuremeter testing *

Value Engineering and Underpinning

- O'Hare International Airport, Terminal 5 - Chicago, IL: Investigation of existing foundations sizes/bearing depths; value engineering of existing drilled shaft capacities using pressuremeter testing to support increased column loads *

- Shedd Aquarium - Chicago, IL: New foundation design and underpinning existing foundations using micropiles to support additional loads *
- Nippon Sharyo Phases I and II - Rochelle, IL: Slab improvements, rock anchor design to resist uplift of pit slabs, and underpinning existing footings to support increased loads *

Forensic Investigation

- University of Illinois Chicago: Evaluation of existing conditions related to elevator settlement, detailed study of engineering and construction documents, and identification of causes for failure and potential repair recommendations *
- Retaining Wall - Chicago, IL: Evaluation of existing conditions, detailed study of engineering and construction documents, identification of causes for failure, detailed geophysical and geotechnical investigations, and potential repair recommendations *
- USPS Facility - Aurora, IL: Evaluation of existing pavement conditions, detailed study of engineering and construction documents, identification of causes for failure, and potential repair recommendations *

Ground Improvement and Construction Consulting

- O'Hare International Airport, Terminals 2 and 3 - Chicago, IL: Recommendations and observations of lime stabilization of the taxiway subgrade and quality assurance during construction *
- Elgin O'Hare Bypass Embankment - IL: Recommendation of alternatives such as wick drains, preloading, and phased construction approaches to reduce construction timeline and expedite settlement under a twenty-five-foot embankment *
- Vibratory Stone Columns - Various Locations, U.S.: Design of stone or similar columns to support shallow foundations in challenging subsurface stratigraphy in lieu of designing deep foundations systems *

* Indicates with previous firm(s)