



simplify the complex.



Wachter & Associates has helped construction professionals simplify the complex with innovative solutions for over 30 years. We help owners, construction professionals and lawyers mitigate risk, boost profitability and maximize efficiencies across many industries and projects. Our consulting and advisory services help our partners overcome obstacles to easily achieve their goals.

INDUSTRIES

Energy & Power

Process & Manufacturing

Waste & Water Treatment

Environmental

Municipal

Commercial

Residential

Educational

Hospitality

Stadiums & Arenas

Research Facilities

Transportation

Infrastructure

Healthcare

Government

Correctional

CLIENTS

Owners

Architects

Engineers

Construction Managers

General Contractors

Trade Contractors

Subcontractors

Surety & Bonding

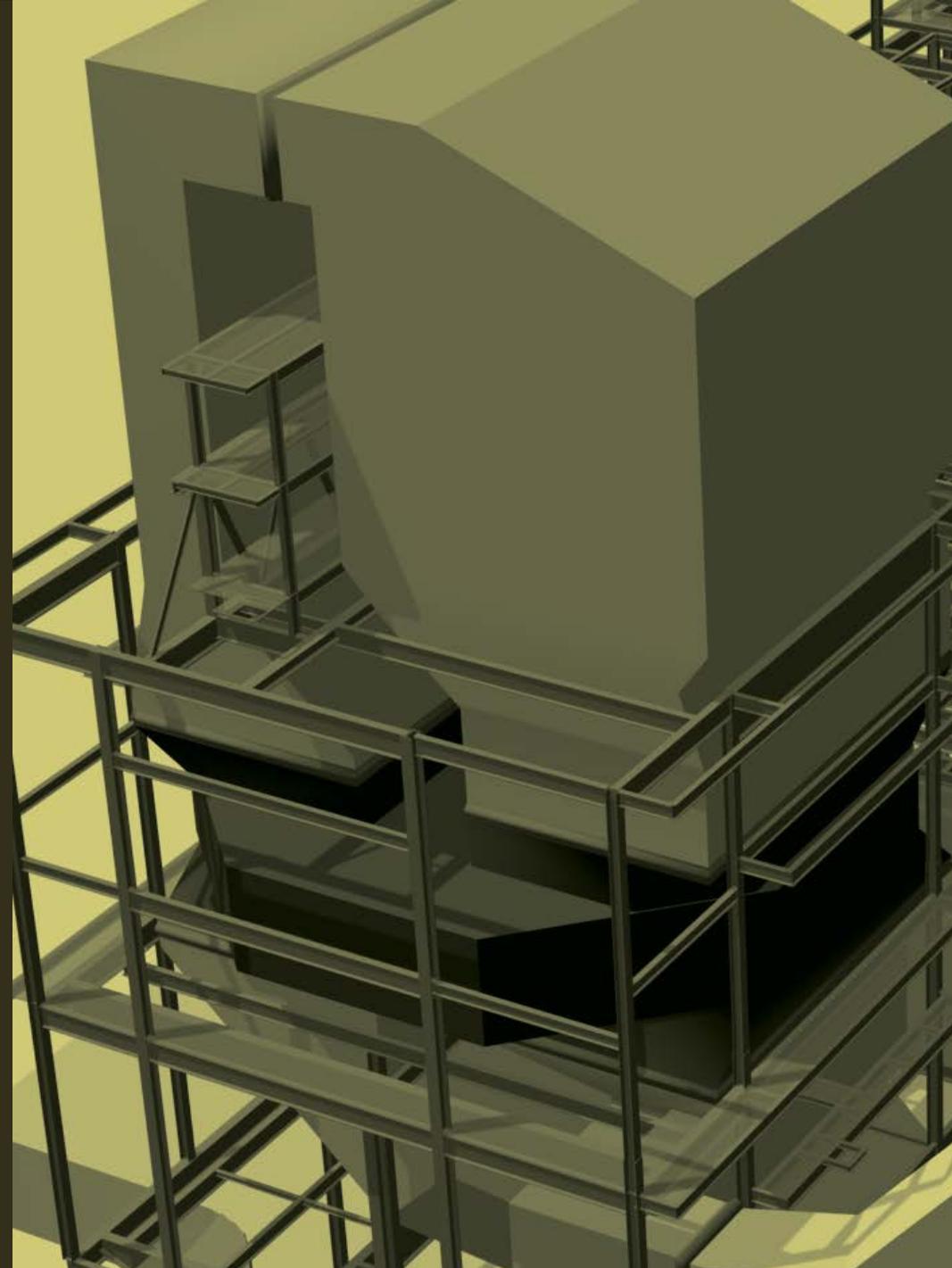
Legal Counsel

Other Consulting Firms

CONSULTING

When challenges threaten to derail a project, our clients trust us to find efficient solutions to control cost, mitigate risk, improve efficiency, meet deadlines and resolve disputes. Our unique combinations of engineering, legal, management and presentation skills, allows us to quickly untangle the knots any job can throw at you, whether we're already working alongside you on the project or called in at a moment's notice.

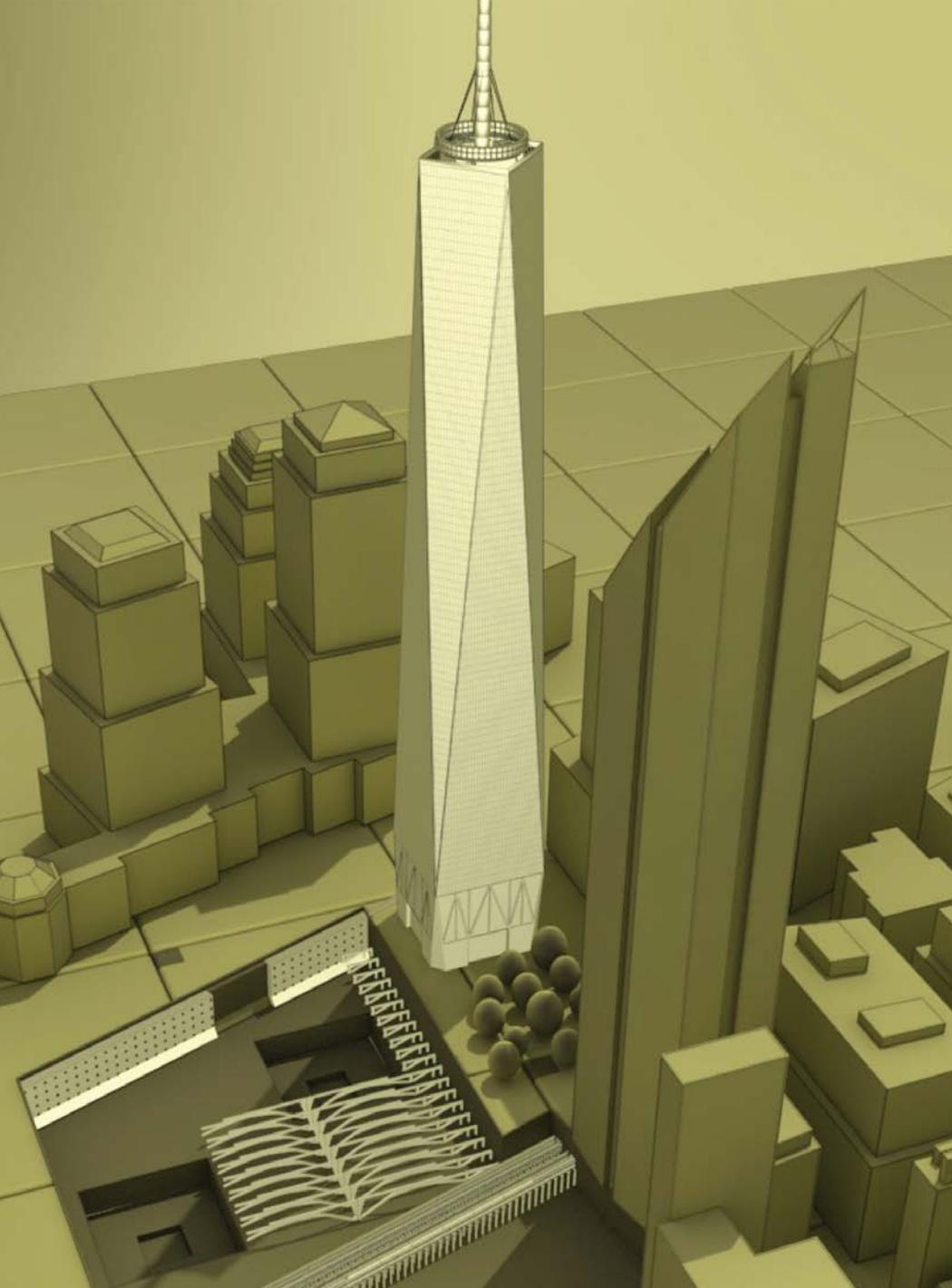
Duties Include: Forensic Schedule Analysis, Claim Preparation, Review, & Analysis, Damages Calculation & Qualification, Expert Testimony, Litigation Support, Document & E-Document Discovery, Demonstrative Evidence



CASE STUDY

MERCER SCR (SELECTIVE CATALYTIC REDUCTION) SYSTEM

Go to www.wachterandassociates.com



PROJECT ADVISORY

Success is made in the details. That's why we're proud to offer support for some of the nation's most important construction projects. Our day-to-day oversight means you know exactly where you stand. And you have instant access to project status and updates via the web, and a team that's with you every step of the way.

Duties Include: CPM Scheduling, Cost to Complete Estimates, Dispute Avoidance & Resolution, Requests for Time Extension, Requests for Equitable Adjustment, Project Bid Review, Change Order Review & Development, Project Controls Implementation, Site Video & Photography

CASE STUDY

WORLD TRADE CENTER INFRASTRUCTURE

Go to www.wachterandassociates.com

SERVICES

CLAIM PREPARATION

When disputes arise, you need a committed partner with superior technical expertise that can look after your company's best interest. Wachter & Associates can professionally manage construction claims in business, promoting an amicable resolution. We help you understand your strengths and weaknesses, devising a winning strategy and approach. At Wachter & Associates, we work hard to safeguard your reputation and profitability, closing issues as quickly as possible.

Experts in scheduling and project advisory, Wachter & Associates will prepare, review and analyze claims arising as a result of design changes, scope changes, schedule delays or disruptions, schedule acceleration and compression, changed site conditions, payment delay, conflicts, or wrongful contract termination. We can pinpoint the exact periods impacted, key events responsible for project setbacks or failures and the delaying party. Causes are examined to accurately determine damages and resulting monetary losses. Our consultants work with you to evaluate and compose written rebuttals to opposing or counter claims, assessing project performance, sequencing, constructability, design and overall cost.

Additional claims support services include expert testimony, graphics presentation and demonstrative evidence modeling, exhibit design, code compliance review and analysis reports such as errors and omissions, and cost and damages for delay and disruption. We can also assist in the preparation of responses to interrogatories, briefs and motions.

SCHEDULE & DELAY ANALYSIS

Even after vigilant planning, project delays can arise, leading to unforeseen damages and painful monetary losses. Wachter & Associates provides an ideal combination of experience, knowledge and industry insight to help organizations understand root causes and determine accountability. Our schedule and delay analysis services support as-built reconstruction and validation, windows/time impact analysis, as-planned vs. as-built schedule analysis, and contemporaneous update reviews and validation.

We work with clients to quantify, review and validate baseline scheduling issues and claims, identify and present concurrent delays, longest path and critical path identification and quantification, and time impact analyses. Wachter & Associates carefully reviews RFI and change order impacts, weather impacts, holiday embargos, site restrictions and design changes. We also assess availability and lead time for materials, equipment, permits and inspections using our extensive construction and scheduling experience.

Ever watchful for schedule manipulation, common scheduling errors and baseline practicality, we review all schedules, pinpoint impacted periods including delaying events and total duration, determine the responsible party and categorize each delay type (excusable or non-excusable, compensable or non-compensable, critical or non-critical and concurrent). We then identify and quantify delay mitigation and constructive acceleration needs, validating damage calculations and CPM schedules vs. project records including daily reports, meeting minutes, inspection reports, non-conformance reports, cost reports, delivery tickets and submittal logs. Our in-house design team visually presents results within easy-to-understand graphs, animated time lapses and bar charts.

DAMAGES CALCULATION & QUANTIFICATION

By properly assessing and presenting damage calculations with justifiable causation, Wachter & Associates helps businesses open productive communication lines, resolve disputes and garner the strongest claims remuneration possible.

Thoroughly auditing all project documentation, we prepare time extension costing, labor and material escalation costing, earned value and earned man-hour analysis, inefficiency and NOAA weather analyses to determine the impact on productivity and profitability. We then reconcile these claims with the actual increased cost for materials, labor, equipment, small tools and subcontractors. Time and material, additional work and change orders are examined and validated, and calculations are made to establish the extended overhead needed as a result of project delays and disruptions.

Wachter & Associates looks at the important details, helping all parties understand both direct and indirect costs along with contract clauses that may affect damage calculations. After identifying the total impact, we accurately quantify damages using standard methods such as actual cost, estimated cost, measured mile and

modified total cost. Clients receive a comprehensive presentation of assessed calculations including a summary of damages, expert analysis plus relevant graphs and charts.

EXPERT TESTIMONY

Working collaboratively with our clients and their attorneys, Wachter & Associates provides expert testimony on complex construction and engineering issues. We're skilled at simplifying and clearly articulating technical data, so all audiences understand the why's and how's surrounding construction project delays, disputes and resulting damages.

Trust Wachter & Associates to provide the expertise needed during litigation, mediation and arbitration cases involving construction defects, errors and omissions, schedule delay and disruption, loss of productivity and contract disputes resulting in monetary losses. We can guide decision-makers in understanding and accurately assessing damage and calculations.

We offer testimony and present claims for all industries and in all forums – from mediation to juried courts – with extensive experience in wastewater treatment plant construction. We're proud to have testified in federal court for cases tried in New York, Massachusetts, Nevada and Virginia, recognized as CPM scheduling and engineering experts. We have also testified in arbitration and state courts over 10 times. Walter Wachter has been retained as an expert witness within more than 50 wastewater project cases to date.

As an expert witness, we present industry-specific knowledge that can help advance the litigation process and ensure a fair ruling. We answer technical and engineering questions, offer expert opinions, assess demonstrative evidence, present and clarify facts, explain causes and interpret data in an ethical, objective and unbiased manner. As a result, our clients are often able to reduce their financial liability and safeguard their professional reputation.

LITIGATION SUPPORT

Equitable resolutions require proper due diligence along with support and counsel from industry experts. At Wachter & Associates, we deliver the construction

expertise our clients need to properly state their case to all parties involved – from opposing counsel to the judge.

We assist clients during mediation, arbitration and litigation procedures, adding real value to the discovery and e-discovery process. During discovery, we work with legal counsel to extract key documentation to support your claim, legal case and possible rebuttal. We meticulously review project documentation turned over by the opposing counsel including internal project documents, cost information, correspondence with other parties involved, and electronic documentation including emails, prolog and expedition files, and 3-dimensional models. Trained in the latest case management software, including CT Summation, we seamlessly integrate our findings with your legal counsel.

During e-discovery, Wachter & Associates can assist you and your legal counsel in complying with the 2006 Amendments to the Federal Rules of Civil Procedure Rule 16. We will work with you and your counsel at the beginning of the litigation process to help protect your legal rights and privileged information and ensure your legal access to electronically stored information.

We provide claims services including schedule and delay analyses, damage calculations and expert testimony. From discovery to the courtroom, Wachter & Associates will organize and compose supportive data, answer interrogatories, create graphical presentations and conduct objective analyses to back your claim properly and help you obtain a favorable verdict.

Setting our services apart, the engineers and consultants at Wachter & Associates are notably skilled communicators, able to translate complex concepts into comprehensible and logical ideas. Extremely detail-oriented, we arm clients with the all supportive information and documentation required.

CPM SCHEDULE DEVELOPMENT & UPDATING

Wachter & Associates applies our years of practical experience and education into building solid foundations for successful construction projects. Paired with today's leading technology, we're able to accurately plot, plan, manage and oversee complex schedules, ensuring deadlines are met and potential challenges are identified and addressed proactively. Reviewing detailed project documentation, we precisely assess the impact of delays and plan corrective strategies immediately should they arise.

We offer Critical Path Method (CPM) schedule development and periodic updates for a broad range of construction projects, defining priority, sequence, duration and resource needs. This includes the development of resource and cost loaded schedules, time impact analyses, requests for extension of time, periodic schedule and progress monitoring, schedule progress and delay narratives, earned value reporting, development of invoices based on percentage complete and total float management. Schedules are managed using Primavera Planner P3 and P6, Primavera Suretrak and Microsoft Project.

We're proud to be the trusted name behind some of today's most recognized construction projects. Recent assignments include:

- World Trade Center – Memorial Foundation
- World Trade Center – #1 and #9 Line Underpinning Micro Piles
- World Trade Center – #1 and #9 Line Jet Grout
- World Trade Center – WTC Transportation Hub Tiebacks
- World Trade Center – Memorial Liner Wall
- World Trade Center – Vehicle Security Center
- World Trade Center – Package 17

With the right vision and proper planning, you save time, enhance productivity and improve customer satisfaction.

PROJECT MONITORING & OVERSIGHT

With hundreds of successful construction projects behind us, Wachter & Associates is uniquely qualified to monitor and oversee productivity, deadlines, materials, equipment, small tools and labor cost to ensure exceptional results. We develop systematic plans, making sure milestones are met while quickly pinpointing ways to improve processes before inefficiencies impact your bottom line. The experts at Wachter & Associates are able to intuitively recognize common pitfalls and potential problems, offering expert counsel on ways you can improve results.

We work hands-on with each stakeholder including the project's construction manager, engineers and owners, analyzing budgets, evaluating contracts and bids, assisting in bid development and implementing project controls. We further conduct routine site visits, monitoring and benchmarking productivity and cost, designing protocols, and reviewing labor and equipment efficiency.

We keep your project on-track, examining all correspondence and documentation on a monthly basis. When changes are required, we analyze terms, determine deadlines and ensure feasibility. Controlling cost at every step, Wachter & Associates tracks the percentage of work-in-place and available funds to ensure smooth and flawless project progression. We further administer construction photography and videography to document development as part of our standard project monitoring and oversight services.

DISPUTE AVOIDANCE & RESOLUTION

Before a construction project even begins, Wachter & Associates steps in to provide the expert counsel and guidance you need to safeguard your best interest. Our dispute avoidance and resolution services can preserve your revenue, employee productivity, professional reputation and peace-of-mind.

Because the unexpected can occur, we work with clients to carefully evaluate contractual terms, propose negotiations and ensure best practice terms are established from the start. During and after a project's lifecycle, we continue to provide prudent advice to our client, recommending strategies to help circumvent disputes and prepare written records should one arise. Our services include contract risk assessment, plan and constructability review, notice and change order development, claim preparation, cost and schedule review and validation.

When faced with a dispute, Wachter & Associates is adept at preparing documentation and substantiation that can minimize liability. We can identify causes, ensure proper accountability and accurately calculate the direct and indirect financial ramifications. In many cases, we're able to quickly negotiate amicable terms and help clients avoid more lengthy and costly procedures.

For more information and to view our case studies,
go to
www.wachterandassociates.com