

EDWARD A. WHEELER, M.B.A.



Mr. Wheeler is an Executive Consultant with Long International and has over 35 years in the heavy civil construction, oil and gas, and power industries. He is experienced with the development of pre-bid pursuit schedules and baseline schedules and recently completed a baseline schedule for the Reconstruction of the Williamsburg Bridge Project and a pursuit schedule for a \$1.3 billion toll road project. Mr. Wheeler has had a significant role in the development of large, sophisticated project schedules for several high-profile nationwide projects totaling over US\$8 billion. He has proven experience in construction management, management advisory services, and construction claims consulting. He provides clients with superior hands-on industry knowledge and the analytical and problem solving skills necessary to understand and demonstrate the effects of complex construction issues and time-related impacts. Mr. Wheeler began his career as an Operating Engineer

for one of the largest U.S. heavy civil contractors. He subsequently worked as a Project Engineer, Project Manager, Project Scheduler, Contract Administrator, Scheduling Consultant, Senior Scheduler, and Corporate Scheduler. Mr. Wheeler has provided services to several of the most respected heavy civil contractors in the U.S. and some of the largest international construction companies in the world.

EDUCATION

M.B.A., Northern Arizona University, 1999, Emphasis, International Business Management/MIS
B.S., Construction Management, California State University at Chico, 1992, Minor, Business Administration

PROFESSIONAL AFFILIATIONS

Association for the Advancement of Cost Engineering International

TECHNICAL EXPERIENCE

- Construction claims analysis, preparation, and defense
- Project baseline planning, including CPM schedule development, status updating, and performance measurement
- Recovery plan development and implementation
- Contract and subcontract administration and management
- Cost estimating and estimate evaluation
- Project cost control and cash flow preparation, analysis, and reporting
- Progress payment billing preparation and review
- Project control systems integration and implementation
- Change order pricing and negotiations
- Contractual entitlement evaluation
- Direct and indirect cost damages assessment
- Analysis of project delay, disruption, acceleration, and productivity-related issues affecting planned cost and schedule performance
- Speaker and author of training manuals about construction claims, CPM schedule analysis, and project management

PROJECT EXPERIENCE

Mr. Wheeler has provided project controls leadership and schedule expertise on projects for both owners and contractors. Representative projects include the following:

Transportation Projects

- State Route (S.R.) 400 Express Lanes Project, Atlanta, Georgia, US\$1.3 billion, Pursuit (Pre-bid) Proposal Scheduling Services
 - Provided pre-bid CPM scheduling services using Primavera's P6 professional software to the Shikun & Binui/Acciona joint venture team. This project had over 30 new CIP bridge structures, miles of driven piles, retaining walls, and storm drain, in addition to over 4 million cubic yards of cut/fill earthwork. The SR400 Proposal Schedule included 14,358 activities.
- Hampton Road Bridge Tunnel (HRBT) Project, Virginia Beach, Virginia, US\$3.3 billion, Pursuit (Pre-bid) Proposal Scheduling Services
 - Provided pre-bid CPM scheduling services using Primavera's P6 professional software to the Lane/Flour/Traylor Bros. joint venture team. HRBT is a three-and-a-half-mile bridge tunnel that runs between the cities of Hampton and Norfolk. The expansion included replacement and/or improvement of over 25 bridge structures and included over 12,500 lineal feet of trestle construction in each direction on opposite ends of the twin tunnels. To complete the project by late 2025, land and tunnel work will occur simultaneously with a Tunnel Boring Machine (TBM) construction method. Once completed, twin two-lane bored tunnels will be built west of the existing eastbound and westbound tunnels. Each tunnel will be approximately 45 feet, creating the second largest tunnel opening for a TBM in North America. Additionally, the landside highway is to be widened one mile in Hampton and four miles in Norfolk. The HRBT Proposal Schedule included 5,053 activities.
- Wekiva Parkway (Section 8), Seminole County, Florida, US\$253 million, Pursuit (Pre-bid) Proposal Scheduling Services
 - Provided pre-bid CPM scheduling services using Primavera's P6 professional software to the Lane Construction Estimating Team. Wekiva Parkway Section 8 involved the design and construction of 2.63 miles of limited access toll road. Reconstruction along I-4 for two miles included a new interchange to be constructed at Wekiva Parkway and I-4 that would connect seamlessly with SR 417. The project included 22 bridges, drainage, lighting, paving, pavement markings, an extensive sign package, utilities, and other roadway features. The Wekiva 8 Proposal Schedule included 2,218 activities.
- Winston-Salem Northern Beltway Interchange at US52, North Carolina, US\$120 million, Pursuit (Pre-bid) Proposal Scheduling Services
 - Provided pre-bid CPM scheduling services using Primavera's P6 professional software to the Lane Construction Estimating Team. The project included intersection improvements at two sites: US-421 at Peace Haven Road and US-52 at NC-65. The project required the construction of bridges, ramps, and tolls, as well as roughly 562,000 cubic yards of earthwork placement. The Northern Beltway Interchange US52 Proposal Schedule included 2,377 activities.
- I-70 Reconstruction Project, Westmoreland County, Pennsylvania, US\$100 million, Pursuit (Pre-bid) Proposal Scheduling Services
 - Provided pre-bid CPM scheduling services using Primavera's P6 professional software to the Lane Construction Estimating Team. The overall project included reconstruction of 3.7 miles of S.R. 0070,

widening the median to a minimum of 10 feet, providing 12-foot outside shoulders, reconstructing the interchanges at Exits 53 and 54 by lengthening the ramp acceleration and deceleration lanes, and providing an eastbound auxiliary lane between the two interchanges. The project also included replacement of four mainline S.R. 0070 bridges, one mainline S.R. 0070 buried culvert, a new proposed culvert at the eastbound on-and-off ramps for the Yukon Interchange, and maintenance on one S.R. 3010 structure.

- Brooklyn-Queens Expressway (BQE) Project, Queens, New York, US\$230 million, Construction Progress Scheduling
 - Provided baseline preparation and schedule expertise, project administration, coordination, analysis, and negotiation of all time-related issues. The project included the rehabilitation of two miles of the Brooklyn-Queens Expressway, reconstruction of roadway, ramps, and overpass bridges, and resurfacing and rehabilitative work on streets below the main structure. Reconstruction work was also performed on the Grand Central Parkway Connector, which links the BQE to a parkway. The BQE Baseline Schedule was resource loaded with 2,840 activities.
- FDR Drive Reconstruction Project, Manhattan, New York, US\$136 million, Baseline Scheduling
 - Provided baseline preparation, ensured that the schedule met with the approval of the New York State Department of Transportation (NYSDOT), and provided continued project oversight. This project consisted of a contract by the NYSDOT to rehabilitate 1.28 miles of the FDR Drive from 53rd Street to 63rd Street along the East River in New York City. The scope of work included replacement of the bridge and viaduct superstructures, rehabilitation of the roof structure, barrier, and retaining walls, seismic retrofitting, lighting, signs, and drainage. The most challenging aspect of the assignment was the construction of the outboard detour roadway. The FDR Drive Baseline Schedule was cost and resource loaded with 2,344 activities.
- NYC Times Square Rehabilitation Project, Manhattan, New York, US\$90 million, Construction Progress Scheduling
 - Provided support to the management team including schedule review, working schedule development, and sub-networks management for claims purposes. This project consisted of a contract to reconstruct the Times Square Subway Station, the largest and busiest in New York City Transit's System—a facility that serves as a hub for four subway lines carrying 500,000 passengers on a daily basis. The most challenging component of the project was the expansion of the 41st Street and 7th Avenue mezzanine, which required demolition and excavation of the subway roof and roadway in order to relocate and temporarily support major utilities. This work was followed by the installation of a complex decking system for the purpose of allowing traffic to run smoothly while construction occurred underground. The Times Square Rehabilitation Working Schedule was cost and resource loaded with 2,823 activities.
- Route 18 Extension Section 2A Project, Rutgers University, New Jersey, US\$76 million, Baseline Scheduling
 - Provided baseline preparation and project oversight responsibilities. This project consisted of a contract to construct 6 bridges, 12 retaining walls, 6 multi-use pathways, and approximately 4 miles of new highway including 12 on-and-off ramps for the new Route 18 Highway Extension through Rutgers University. This project also required the relocation of existing overhead and underground utilities. Much of the cut/fill earthwork on this project required the clearing of trees and shrubs

adjacent to River Road. Several drainage culverts were installed along with arterial roadways going to and from the university.

- Boston Central Artery “Big Dig” Project, Boston, Massachusetts, US\$400 million, Claims Consulting Scheduling
 - Integral member of a claim scheduling team responsible for providing support documentation, presentation, and negotiation involving a US\$30 million claim on the project. The project consisted of a contract to construct thousands of feet of cut-and-cover tunnels, boat sections, viaduct, and jacked tunnels underneath active railroad tracks and roadway lanes. Construction methods included decking systems, temporary bridges, and the underpinning of the elevated Central Artery Viaduct. The team chose segmental precast concrete as the method of construction for the viaducts.
- New York Avenue Metrorail Station Project, Washington, D.C., US\$62 million, Baseline Scheduling
 - Provided baseline preparation and project oversight responsibilities. The project consisted of a contract to construct a new “drop in” metro station in Washington, D.C., including all track work and connections. The New York Avenue Station was constructed between two existing stations on the Metro’s busiest line: the Red Line. This at-grade level station was built on a combination of the existing railroad embankment and bridges.
- Highbridge Yard Maintenance Facility Project, Queens, New York, US\$77 million, Pursuit (Pre-bid) Proposal Scheduling
 - Developed the pre-bid schedule, aided in the development of the Baseline CPM Schedule, and provided project oversight responsibilities. The project consisted of a US\$77 million contract to construct a 62,000 sf rail car maintenance facility (ten car lengths) with two tracks and the installation of associated maintenance and repair equipment. The facility also included an additional 8,300 sf of office space and employee locker rooms located on the second floor. Other project components included the construction of 35,000 feet of track along with 32 switches and electric substation, as well as an employee station.
- Roosevelt Avenue/74th Street Reconstruction Project, Manhattan, New York, US\$87 million, Baseline Scheduling
 - Provided baseline preparation and project oversight responsibilities. The project consisted of a US\$87 million contract to completely renovate the massive Roosevelt Avenue/7th Street Station Complex, which included a large bus station at the same location. The work at the subway stations featured major reconstruction of transfer passageways and stairs, including reconfiguration of the IRT mezzanine. A new street-level intermodal facility including employee and equipment facilities and concession spaces were also constructed. The facility included a street-level control area with stairs serving all of the stations, employee, and equipment areas. The Roosevelt Avenue Baseline Schedule was resource loaded with 3,200 activities.
- San Joaquin Hills Transportation Corridor Project, Irvine, California, US\$800 million, Construction Progress Scheduling
 - Provided CPM scheduling services using Primavera’s Finest Hour Software on the Molton Section of this Granite/Kiewit joint venture project. The project had over 100 new CIP bridge structures, miles of driven piles, retaining walls, and storm drain, in addition to over 1 million cubic yards of cut/fill

earthwork. The Molton Section was the largest of four sections and was valued at approximately US\$300 million. The Molton Section “Working Schedule” included 1,544 activities.

Refineries and Offshore Oil Platform Projects

- Liquefied Gas Refinery (LNG) Project, Australia, Claims Consulting Scheduling
 - On behalf of the owner, performed schedule delay analysis and prepared an expert report in defense of claims submitted by the suppliers on a multibillion-dollar liquefied natural gas (LNG) refinery project in Australia.
- Liquefied Gas Refinery (LNG) Project, Australia, Claims Consulting Scheduling
 - On behalf of the owner, performed schedule delay analysis and prepared an expert report in support of the owner’s delay claim against the suppliers on a multibillion-dollar liquefied natural gas (LNG) refinery project in Australia.
- Petroleum Refinery Project, Trinidad and Tobago, Claims Consulting Scheduling
 - On behalf of the owner, analyzed contractor’s change order requests by providing a detailed CPM schedule analysis to determine delay and acceleration responsibility on a petroleum refinery in Trinidad and Tobago. Data analysis included review of project documentation, such as daily time sheets, foreman’s reports, weekly and monthly project status reports, and requests for contract time extensions.
- Offshore Oil Production Facility, Gulf of Mexico, Claims Consulting Scheduling
 - Analyzed the owner’s damages resulting from the delayed installation of a US\$2 billion offshore oil production facility in the Gulf of Mexico due to defects in the fabrication of shackles. Identified the owner’s direct and time-related costs from its job cost project files. Analyzed the owner’s project CPM schedules to identify critical path delays associated with the work to replace the defective shackles.

Power Projects

- Coal-Fired Power Plant, Arkansas, US\$880 million, Claims Consulting Scheduling
 - Analyzed EPC schedules for a coal-fired power plant in Arkansas. Evaluated schedule metrics, reviewed schedule logic, and monthly assessed the reasonableness of the critical path.
- Nuclear Power Plant Project, Europe, Claims Consulting Scheduling
 - Performed schedule delay analysis and prepared an expert report in defense of claims submitted by the suppliers on a multibillion-dollar nuclear power plant project in Europe. Supported the owner’s delay claim against the suppliers.
- Poletti 500-Megawatt Power Plant Project, Queens, New York, US\$250 million, Pursuit (Pre-bid) Proposal Scheduling
 - Provided scheduling support to an estimating team by developing a pre-bid schedule over a 12-month period and multiple proposals through contract award. This project required extensive analysis including resource leveling through the use of resource histograms.

Water, Wastewater, Dams, and Marine Projects

- Caloosahatchee (C43) West Basin Storage Reservoir, Fort Myers, Florida, US\$524 million, Baseline Scheduling
 - Provided pre-bid and baseline CPM scheduling services using Primavera's P6 professional software to the Lane/Salini Impregilo joint venture team. Located on 10,700 acres of former farmland in Hendry County, Fla., the Caloosahatchee River West Basin Storage (C-43) Reservoir will hold approximately 170,000 acre-feet of water, with the maximum depth ranging from 15 feet to 25 feet. This reservoir incorporated a complex levy system that included 16 service bridge structures, 8 reservoir water control structures, and 11 perimeter canal water control structures. The C43 Baseline Schedule included 4,900 activities.
- Olmsted Dam Project, Olmsted, Illinois, US\$800 million, Construction Progress Scheduling
 - Led and mentored a project controls team. Managed, integrated, coordinated, and reviewed the work of the same project controls team. Provided program management and coordination among the client, U.S. Army Corps of Engineers (USACE), the contractor (Washington Group International), and the design team. Provided monthly progress reports regarding cost and schedule using Primavera 5.0/6.0 for Engineering & Construction. Provided a monthly review and evaluation of the contractor's performance to the client. This was a cost reimbursable project, and the CPM schedule was cost loaded at the expense item level with over 9,000 activities to be used for cash flow forecasting and earned value management system purposes.
- Reconstruction of the Williamsburg Bridge Project, Williamsburg, New York, US\$200 million, Baseline Scheduling
 - Provided baseline CPM scheduling services using Primavera's P6 professional software to the Koch Skanska/Skanska USA Civil team. The Williamsburg Bridge is one of the major crossings of the East River, connecting Manhattan and Brooklyn and serving some of the busiest arteries in New York City. An average of over 104,700 vehicles, 6,700 cyclists, and 5,500 pedestrians travel over the Williamsburg Bridge each day. The Williamsburg Bridge also supports the Metropolitan Transportation Authority (MTA) subway system with trains that run several times per day, seven days per week. The Reconstruction of the Williamsburg Bridge Schedule included 3,066 activities.

Municipal Projects

- San Diego International Airport Expansion Project, San Diego, California, US\$60 million, Construction Progress Scheduling
 - Provided pre-bid scheduling services using Primavera's Finest Hour Software for infrastructure projects. Additional responsibilities included contract administration and review and approval of contractor's schedules. This project included CIP bridge structures, utility relocations, demolition of an existing bridge structure, grading and paving for detours, and airport parking.
- San Marcos Town Center Project, San Diego, California, US\$13 million, Construction Progress Scheduling
 - Provided baseline preparation. Performed CPM scheduling using Primavera Project Planner. This project included 2700 LF of box culvert, a CIP bridge structure, grading, paving, traffic control, and the relocation of utilities including fiber optics. The contractor also relocated railroad tracks with ballast to accommodate construction of the new San Marcos Town Center.

PROFESSIONAL EXPERIENCE**Long International, Inc.***Nashville/Knoxville, Tennessee Area (October 2007 to Present)*

As an Executive Consultant with Long International, Mr. Wheeler provides claims analysis services on projects for both owners and contractors. He provides clients with CPM schedule delay and acceleration analysis, job cost analysis, job cost variance modeling, project documentation review analysis, change order impact analysis, issue identification, correlation of impacts to schedule activities, claims preparation and negotiations, damages quantification, and arbitration/litigation support.

Koch Skanska/Skanska USA Civil*Queens, New York (June 2022 to March 2023)*

As a scheduling consultant, Mr. Wheeler was responsible for creating a Baseline CPM schedule for the Reconstruction of the Williamsburg Bridge Project in Williamsburg, New York, totaling US\$200 million.

Shikun & Binui/Acciona*Pittsburgh, Pennsylvania (November 2020 to May 2021)*

Mr. Wheeler was a Scheduling Consultant. He supported the joint venture company's pursuit of a large toll road project involving an S.R. express lane in Atlanta, Georgia, totaling US\$1.3 billion.

Lane Construction Corporation*Cheshire, Connecticut (May 2018 to November 2019)*

Mr. Wheeler was a Scheduling Consultant. He supported the company on several large heavy industrial infrastructure projects including: a beltway interchange in North Carolina, a parkway in Seminole County, Florida, a bridge tunnel in Virginia Beach, Virginia, a basin storage reservoir in Fort Meyers, Florida, and a reconstruction project in Westmoreland County, Pennsylvania. Lane Construction is a wholly owned subsidiary of Salini Impregilo Group, a global construction leader specializing in hydro and dams, railways, metro systems, roads, and motorways.

Catalyst, Inc.*Indianapolis, Indiana (August 2004 to August 2007)*

As a Senior Scheduling Consultant, Mr. Wheeler provided leadership and experience to the project control team on the US\$800 million Olmsted Dam Project in Illinois. His responsibilities included management, integration, coordination, and review of the project control team's work. He also provided program management and coordination among the client, USACE, the contractor, and the design team while providing monthly progress reports regarding cost and schedule using Primavera 5.0/6.0 for Engineering and Construction. His monthly review and evaluation of the contractor's performance with the client was instrumental to USACE.

CPM Scheduling Services*Crossville, Tennessee (June 2003 to April 2005)*

As an independent consultant, Mr. Wheeler provided project control support to Slattery Skanska, Inc. (Skanska USA Civil), on the US\$230 million BQE project. Upon departure as the Corporate Scheduler for

Slattery Skanska, Inc., he continued his work as the Lead Scheduler on the BQE project until its completion in April 2005.

Skanska USA Civil

Whitestone, New York (March 2000 to April 2003)

As the Senior Scheduler/Corporate Scheduler for Slattery Skanska, Inc. (Skanska USA Civil), Mr. Wheeler was responsible for all CPM scheduling operations within the company including its subsidiaries. He was responsible for providing schedule support, review, and direction to Slattery Skanska projects using Primavera Project Planner (P3) for Windows. He also provided training at the Slattery Institute of Learning on the subjects of construction claims, CPM schedule analysis, and project management.

CPM Scheduling Services

Flagstaff, Arizona (November 1996 to June 2000)

As an independent consultant, Mr. Wheeler provided consulting services to owners and contractors in the construction industry. His services included CPM scheduling, training seminars, partnering facilitation, and claims evaluation and resolution. His client list included some of the largest and most respected heavy civil contractors in the industry.

Bilbro & Giffin Program and Construction Management

San Diego, California (August 1995 to October 1996)

As a Senior Project Engineer, Mr. Wheeler was responsible for the administration of all civil works contracts for a program that included US\$180 million worth of San Diego International Airport Expansion projects. Specific responsibilities included contract administration, design review, CPM scheduling, project coordination, evaluation of project budgets, and the supervision of three San Diego Unified Port District inspectors.

Granite Construction Company

Watsonville, California (June 1985 to August 1995)

Mr. Wheeler began his career with one of the largest and most respected heavy civil contractors in the U.S. After a few years of working in the field as a member of the Operating Engineers, he graduated with honors from the Construction Management Program at Chico State University. Upon graduation, he began working for Granite as a Project Engineer/Project Manager on small projects in San Diego, California. After achieving some success within Granite's Branch Division, Mr. Wheeler soon transferred to Granite's Heavy Division, where he worked as a Project Scheduler on the US\$800 million San Joaquin Hills Transportation Corridor in Irvine, California.